



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**

Prinses Beatrixlaan 2  
2595 AL Den Haag  
Postadres  
Postbus 10366  
2501 HJ Den Haag  
Telefoon: 088-0426656  
Bankrekeningnummer:  
Voor taksen en depotrekeningen:  
ING 0705001296  
Iban: NL41INGB070500129  
BIC: INGBNL2A

## Introduction

### Patent Bulletin

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

### Official Journal

Appears four times a year (January, April, July, October) in electronic form on the [www.rvo.nl/octrooien](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**

Prinses Beatrixlaan 2  
2595 AL Den Haag  
Postadress  
Post Office Box: 10366  
2501 HJ Den Haag  
Telephone: +31(0)88 0426656  
Account:  
Fees, deposit accounts:  
ING 0705001296  
Iban: NL41INGB070500129  
BIC: INGBNL2A

<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>18 Heading NP2</b> Contains data concerning Netherlands patents which have been entered in the patent register under the Patents Act 1995.	<b>18</b>
<b>Rubriek NP3</b> Bevat gegevens betreffende Nederlandse octrooien na gedeeltelijke afstand conform artikel 63 van de Octrooiwet 1995.	<b>29 Heading NP3</b> Contains data concerning Netherlands patents after partial renunciation confirm Article 63 of the Patents Act 1995.	<b>29</b>
<b>Rubriek EP1</b> Bevat gegevens betreffende vertaalde conclusies van Europese octrooiaanvragen.	<b>30 Heading EP1</b> Contains data concerning translations of the conclusions of European patent applications.	<b>30</b>
<b>Rubriek EP2</b> Bevat gegevens betreffende voor Nederland verleende Europese octrooien.	<b>31 Heading EP2</b> Contains data concerning European patents granted for The Netherlands.	<b>31</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>256 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>256</b>
<b>Rubriek EP4</b> Bevat gegevens betreffende voor Nederland verleende gewijzigde Europese octrooien.	<b>288 Heading EP4</b> Contains data concerning European patents granted in amended form for the Netherlands.	<b>288</b>
<b>Rubriek EP5</b> Bevat gegevens betreffende voor Nederland verleende gewijzigde	<b>289 Heading EP5</b> Contains data concerning European patents granted in amended form for	<b>289</b>

Europese octrooien waarvoor een gewijzigde vertaling is ingediend.

The Netherlands in which an amended translation was filed.

**Rubriek SPC**

Bevat gegevens betreffende ingeschreven en verleende certificaten

**290Heading SPC**

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

290

**Rubriek VB1**

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

**291Heading VB1**

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

291

**Rubriek VB2**

Bevat gegevens betreffende rechten waarin een beslissing is genomen of waarvoor een nieuwheidsrapport is uitgegaan op een verzoek- of bezwaarschrift conform de Octrooiwet 1995.

**292Heading VB2**

Contains data concerning requests and notices of opposition under the General administrative law in respect of which a decision has been taken or in respect for which a report has been made.

292

**Rubriek MED**

Bevat gegevens betreffende overige mededelingen.

**293Heading MED**

Contains data concerning other communications.

293

**Rubriek VRV**

Bevat gegevens betreffende verval of nietigverklaring.

**294Heading VRV**

Contains data concerning lapse or annulment.

294

**Rubriek VRB**

Bevat gegevens betreffende verbeteringen op eerdere publicaties.

**324Heading VRB**

Contains data concerning corrections on earlier publications.

324

**Rubriek CO**

Bevat gegevens betreffende wijzigingen in het octrooiregister.

**325Heading CO**

Contains data concerning changes in the Netherland patent register.

325

**Rubriek TVH**

Bevat gegevens betreffende topografieën van halfgeleiderproducten.

**326Heading TVH**

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

326

<b>Rubriek UP1</b> Bevat gegevens over Europese octrooien met geregistreerde eenheidswerking.	<b>327Heading UP1</b> Contains data concerning European patents with registered Unitary Effect.	<b>327</b>
<b>Rubriek UP2</b> Bevat gegevens over Europese octrooien met geregistreerd verzoek ex. artikel 52a (herstel recht op validatie).	<b>330Heading UP2</b> Contains data concerning European patents with registered request ex article 52a (restoration of validation right).	<b>330</b>
<b>Rubriek UP3</b> Bevat gegevens over Europese octrooien met geaccepteerd verzoek ex. artikel 52a (herstel recht op validatie) en complete validatie.	<b>331Heading UP3</b> Contains data concerning European patents with accepted ex article 52a (restoration of validation right) and validation completed.	<b>331</b>
<b>Rubriek UP4</b> Bevat gegevens over Europese octrooien met geaccepteerd verzoek ex. artikel 52a (herstel recht op validatie) en geen complete validatie.	<b>332Heading UP4</b> Contains data concerning European patents with accepted request ex article 52a (restoration of validation right) and incomplete validation.	<b>332</b>
<b>Rubriek UP5</b> Bevat gegevens over Europese octrooien met afgewezen verzoek ex. artikel 52a (herstel recht op validatie).	<b>333Heading UP5</b> Contains data concerning European patents with rejected request ex article 52a (restoration of validation right).	<b>333</b>
<b>Rubriek UP6</b> Bevat gegevens over Europese octrooien met ingetrokken verzoek ex. artikel 52a (herstel recht op validatie).	<b>334Heading UP6</b> Contains data concerning European patents with withdrawn request ex article 52a (restoration of validation right).	<b>334</b>

## Overzicht van Inid codes

### INID CODES

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

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

### INID CODES

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

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

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

## Rubrieken/Headings

## NP1

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

(51) A01B 45/02 A01C 23/02	(54) INTELLIGENT AND ANTI-BLOCKING FERTILIZING APPARATUS FOR LARGE-PARTICLE FERTILIZERS	Min Xiao Guofang Xia
(21) 2031148	(71) Shenyang Institute of Applied Ecology, Chinese Academy of Sciences	(31) 202210198938.3
(22) 03.03.2022	(74) dr. R.C. van Duijvenbode c.s.	(32) 02.03.2022
(54) WERKWIJZE EN INRICHTING VOOR HET VERHOGEN VAN HET VOCHTGEHALTE VAN EEN HYDROFOBISCHE BODEM	(72) Yuanliang Shi	(33) China
(71) Gerrit Jan Vink	Jie Li	(51) A01G 22/05
(74) drs. C.H. Mink-Lindenburg	Wenyu Wang	A01B 79/02
(72) Gerrit Jan Vink	Zongyun Lu	C05F 17/20
(41) 11.09.2023	Wei Wang	(21) 2034229
(51) A01C 1/00	Yaqun Li	(22) 27.02.2023
(21) 2031127	(41) 11.09.2023	(54) CULTIVATION METHOD FOR HIGH- QUALITY TOMATOES
(22) 01.03.2022	(31) 202210201935.0	(71) Shandong Shouguang Vegetable Industry Group Co., Ltd.
(54) METHOD FOR PROMOTING GERMINATION OF MALLOTUS APELTA (LOUR.) MÜLL. ARG. SEEDS	(32) 03.03.2022	National Vegetable Quality Standard Center
(71) Kunming Institute of Botany, Chinese Academy of Sciences	(33) China	Weifang Seed Valley Agricultural Technology Development Co., Ltd.
(74) ir. M.B. Plaggenborg	(51) A01G 9/029	(74) ir. W.J.J.M. Kempes
(72) Jidong Ya	A01G 31/06	(72) Yongjun Hu
Yajuan Yang	(21) 2034439	Zhongyi Zhang
Xiaojian Hu	(22) 27.03.2023	Subo Tian
Lei Fan	(54) Spraying fertilization mechanism and Epimedium planting and seedling raising device	Haibo Xia
Jie Cai	(71) The Key Laboratory of Chemistry for Natural Products of Guizhou Province and Chinese Academy of Sciences(Key Laboratory of Chemistry for Natural Products of Guizhou Medical University)	Kunting Wang
Ting Zhang	Guizhou University	Yingying Hu
Li Huang	(74) dr. T. Wittop Koning PhD	Renjie Wang
Xiangyun Yang	(72) Chao Sun	Xiaofei Xin
Yongjie Guo	Jiachun Zhang	(41) 07.09.2023
Hui Li	Zhenming Zhang	(31) 202210192005.3
(41) 07.09.2023	Hualin Hu	(32) 01.03.2022
(51) A01C 1/00	Hualei Wang	(33) China
A01G 24/10	(41) 11.09.2023	(51) A01G 23/04
A01G 24/20	(31) 202211662755.9	B65B 25/02
(21) 2031028	(32) 23.12.2022	(21) 1044275
(22) 22.02.2022	(33) China	(22) 02.03.2022
(54) METHOD FOR EFFICIENT GERMINATION AND SEEDLING SURVIVAL OF BLUEBERRY SEEDS	(51) A01G 17/00	(54) Method of preparing a plant for transport, and an apparatus
(71) Liaoning Institute of Pomology	A01G 7/06	(71) J. van Dam Onroerend Goed B.V.
(74) ir. W.J.J.M. Kempes	(21) 2031421	(74) ir. J.H. de Hoog
(72) Youchun Liu	(22) 28.03.2022	(72) Gerrit Baars
Xingdong Wang	(54) FORCED-DORMANCY MOBILE YEAR- ROUND PRODUCTION CULTIVATION METHOD FOR SWEET CHERRIES	Hendrik Baars
Cheng Liu	(71) Wanzhi Li	(51) A01H 5/08
Yanmin Yang	(74) ir. M.B. Plaggenborg	A01H 6/82
Jiaqi Li	(72) Baixia Zhao	C12Q 1/6895
Hongguang Wang	Wanzhi Li	(21) 2031136
Yuchun Yang	Fengjia Jin	(22) 02.03.2022
Shuqing Gao	Fengrong Pan	(54) SET OF KOMPETITIVE ALLELE SPECIFIC PCR (KASP)-BASED CORE SINGLE NUCLEOTIDE POLYMORPHISM (SNP) MARKERS FOR EGGPLANT AND USE THEREOF
Xiuli Liu	Wei Zheng	(71) Institute of Vegetables and Flowers, Chinese Academy of Agricultural Sciences
(41) 06.09.2023	Muzhi Cheng	(74) ir. W.J.J.M. Kempes
(51) A01C 7/12	Yutao Li	(72) Jinshuai Shu
A01C 7/14	Liheng Zhang	Fuzhong Liu
(21) 2033983	Xue Chen	
(22) 18.01.2023		



Ying Zhang Yuhui Chen (41) 08.09.2023	(54) MAGNETIC MICROSPHERIC IMMOBILIZED PROTEASE, INSTANT HIGH-NITROGEN-SOLUBILITY-INDEX VEGETABLE PROTEIN PREPARED FROM SAME AND PREPARATION METHOD (71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Liu Xiong Na Ji Zihan Xu Qingjie Sun Xuyan Dong Xuehai Wang Lei Dai (41) 08.09.2023	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Na Ji Liu Xiong Congli Cui Qianzhu Lin Qingjie Sun Kaili Qin Han Jiang (41) 08.09.2023
(51) A01K 5/02 A01K 39/01 (21) 2031050 (22) 23.02.2022 (54) Voersysteem alsmede veestal voorzien van het voersysteem (71) WEDA Holland B.V. (74) ir. G.J.M. Verhees (72) Richard Donkers (41) 06.09.2023	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Liu Xiong Na Ji Zihan Xu Qingjie Sun Xuyan Dong Xuehai Wang Lei Dai (41) 08.09.2023	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Na Ji Liu Xiong Congli Cui Qianzhu Lin Qingjie Sun Kaili Qin Han Jiang (41) 08.09.2023
(51) A01K 67/033 (21) 2031084 (22) 25.02.2022 (54) Inrichting voor het kweken van insectenlarven (71) Bob Holtermans Beheer B.V. (74) drs. A.A. Jilderda (72) Bob Lodewijk Maria Holtermans (41) 07.09.2023	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Liu Xiong Na Ji Zihan Xu Qingjie Sun Xuyan Dong Xuehai Wang Lei Dai (41) 08.09.2023	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Na Ji Liu Xiong Congli Cui Qianzhu Lin Qingjie Sun Kaili Qin Han Jiang (41) 08.09.2023
(51) A01M 1/18 A01M 1/14 A01G 13/10 (21) 2031093 (22) 28.02.2022 (54) INRICHTING VOOR HET VANGEN VAN EIKENPROCEESSIERUPSEN EN WERKWIJZE DAARVOOR (71) Henderikus Potze (74) dr. ir. G.J.C. Verdijk c.s. (72) Henderikus Potze	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Liu Xiong Na Ji Zihan Xu Qingjie Sun Xuyan Dong Xuehai Wang Lei Dai (41) 08.09.2023	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Na Ji Liu Xiong Congli Cui Qianzhu Lin Qingjie Sun Kaili Qin Han Jiang (41) 08.09.2023
(51) A01N 51/00 A01N 53/14 A01N 63/14 A01P 7/02 (21) 2031052 (22) 23.02.2022 (54) METHOD FOR CONTROLLING PHENACOCCLUS SOLENOPSIS TINSLEY BY COMBINING TRUNK INJECTION AND PARASITIC WASP (71) Zhejiang Academy of Agricultural Sciences (74) ir. W.J.J.M. Kempes (72) Mingjiang Li Juan Zhang Jun Huang Yayuan Tang Kaiyuan Zhu (41) 06.09.2023	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Liu Xiong Na Ji Zihan Xu Qingjie Sun Xuyan Dong Xuehai Wang Lei Dai (41) 08.09.2023	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Na Ji Liu Xiong Congli Cui Qianzhu Lin Qingjie Sun Kaili Qin Han Jiang (41) 08.09.2023
(51) A21C 3/02 (21) 2031055 (22) 23.02.2022 (54) Device, dough line and method for rolling dough (71) Radie B.V. (74) ir. M. van der Velden (72) Johannes Josephus Antonius van Blokland (41) 06.09.2023	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Liu Xiong Na Ji Zihan Xu Qingjie Sun Xuyan Dong Xuehai Wang Lei Dai (41) 08.09.2023	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Na Ji Liu Xiong Congli Cui Qianzhu Lin Qingjie Sun Kaili Qin Han Jiang (41) 08.09.2023
(51) A23J 3/14 C12N 11/02 C12P 21/06 (21) 2031144 (22) 02.03.2022	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Liu Xiong Na Ji Zihan Xu Qingjie Sun Xuyan Dong Xuehai Wang Lei Dai (41) 08.09.2023	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Na Ji Liu Xiong Congli Cui Qianzhu Lin Qingjie Sun Kaili Qin Han Jiang (41) 08.09.2023
(51) A23L 29/206 A23L 33/21 A23P 20/10 (21) 2031145 (22) 02.03.2022 (54) SLOWLY DIGESTIBLE STARCH AS WELL AS PREPARATION METHODS AND APPLICATIONS THEREOF	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Liu Xiong Na Ji Zihan Xu Qingjie Sun Xuyan Dong Xuehai Wang Lei Dai (41) 08.09.2023	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Na Ji Liu Xiong Congli Cui Qianzhu Lin Qingjie Sun Kaili Qin Han Jiang (41) 08.09.2023
(51) A23K 10/12 A23K 10/30 A23K 20/142 A23K 20/174 A23K 50/30 A23K 20/20 A61K 36/71 (21) 2031078 (22) 24.02.2022 (54) FEED ADDITIVE CONTAINING TROLLIUS CHINENSIS BUNGE AND FEED (71) Agricultural Biotechnology Research Center, NingXia Academy of Agricultural and Forestry Sciences (Ningxia Key Laboratory of Agricultural Biotechnology) (74) ir. M.B. Plaggenborg (72) Yuchao Chen Shenghu Guo Yongxing Zhu Yajing Guan Xiaoyan Gan Li Tian (41) 06.09.2023	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Liu Xiong Na Ji Zihan Xu Qingjie Sun Xuyan Dong Xuehai Wang Lei Dai (41) 08.09.2023	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Na Ji Liu Xiong Congli Cui Qianzhu Lin Qingjie Sun Kaili Qin Han Jiang (41) 08.09.2023
(51) A61B 5/00 A61B 5/11 (21) 2031060 (22) 24.02.2022 (54) Cueing device with self-activation. (71) Cue2Walk International B.V. (74) ir. J.C. Volmer c.s. (72) Alexander Leopold Marie Minnoye Floor Waardenburg Martijn van der Ent (41) 06.09.2023	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Liu Xiong Na Ji Zihan Xu Qingjie Sun Xuyan Dong Xuehai Wang Lei Dai (41) 08.09.2023	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Na Ji Liu Xiong Congli Cui Qianzhu Lin Qingjie Sun Kaili Qin Han Jiang (41) 08.09.2023
(51) A61B 5/00 A61B 5/11 (21) 2031061 (22) 24.02.2022 (54) Multiple algorithms for controlling a cueing device. (71) Cue2Walk International B.V. (74) ir. J.C. Volmer c.s. (72) Alexander Leopold Marie Minnoye Martijn van der Ent Floor Waardenburg (41) 06.09.2023	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Liu Xiong Na Ji Zihan Xu Qingjie Sun Xuyan Dong Xuehai Wang Lei Dai (41) 08.09.2023	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Na Ji Liu Xiong Congli Cui Qianzhu Lin Qingjie Sun Kaili Qin Han Jiang (41) 08.09.2023
(51) A61B 5/00 A61B 5/11 A45F 5/02 A61B 5/00 A61H 3/00 (21) 2031062 (22) 24.02.2022 (54) Wearable cueing device with knee strap. (71) Cue2Walk International B.V. (74) ir. J.C. Volmer c.s. (72) Floor Waardenburg Alexander Leopold Marie Minnoye Martijn van der Ent (41) 11.09.2023	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Liu Xiong Na Ji Zihan Xu Qingjie Sun Xuyan Dong Xuehai Wang Lei Dai (41) 08.09.2023	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Na Ji Liu Xiong Congli Cui Qianzhu Lin Qingjie Sun Kaili Qin Han Jiang (41) 08.09.2023
(51) A61B 8/00	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Liu Xiong Na Ji Zihan Xu Qingjie Sun Xuyan Dong Xuehai Wang Lei Dai (41) 08.09.2023	(71) Qingdao Agricultural University (74) ir. M.B. Plaggenborg (72) Na Ji Liu Xiong Congli Cui Qianzhu Lin Qingjie Sun Kaili Qin Han Jiang (41) 08.09.2023

- A61B 8/08  
(21) 2031149  
(22) 03.03.2022  
(54) Method and system for transcranial ultrasound imaging (TUI)  
(71) TECHNISCHE UNIVERSITEIT DELFT  
(74) dr. R.C. van Duijvenbode c.s.  
(72) Moein Mozaffarzadeh  
Nicolaas de Jong  
Guillaume Gérard Joseph Renaud  
Martin Daniël Verweij  
(41) 11.09.2023
- 
- (51) A61B 17/30  
A61B 17/29  
A61F 9/007  
(21) 2031086  
(22) 25.02.2022  
(54) An ophthalmic surgery instrument, an add-on module, methods of assembling and de-assembling an ophthalmic surgery instrument  
(71) D.O.R.C. Dutch Ophthalmic Research Center (International) B.V.  
(74) ir. H.A. Witmans c.s.  
(72) Nadieh Bergwerf  
Martinus Christianus Gähler  
John Peter Kuntz  
Marta Scali  
(41) 07.09.2023
- 
- (51) A61K 31/16  
A61K 31/165  
A61K 31/353  
A61P 9/14  
A61P 13/12  
A61P 43/00  
(21) 2031091  
(22) 28.02.2022  
(54) CHROMANOL COMPOUNDS FOR TREATMENT OR PROPHYLAXIS OF AGEING AND AGEING-ASSOCIATED DISORDERS  
(71) Sulfateq B.V.  
(74) drs. W.H.P. Derks  
(72) Daniël Henri Swart  
Adrianus Cornelis van der Graaf  
Robert Henk Henning  
Guido Krenning  
(41) 07.09.2023
- 
- (51) A61K 31/525  
A61K 31/4164  
A61K 38/17  
A61K 47/42  
A61K 31/51  
A61P 15/00  
(21) 2031109  
(22) 28.02.2022  
(54) FN-RICH MEDICINE FOR NON-THERAPEUTIC CERVICAL EROSION GYNECOPATHY AND PREPARATION METHOD THEREOF  
(71) Zhengzhou Railway Vocational & Technical College  
(74) ir. M.B. Plaggenborg  
(72) Yanqi Lu  
Zeyue Zhao  
Limin Zhou  
Baiqiang Zhai  
Xilan Xu
- (41) 07.09.2023  
(51) A61K 31/58  
A61P 1/00  
A61K 31/56  
A61P 9/10  
A61P 31/12  
A61P 35/00  
C07J 1/00  
(21) 2031175  
(22) 07.03.2022  
(54) DHCR24 INHIBITORY COMPOUNDS  
(71) Academisch Ziekenhuis Leiden (h.o.d.n. LUMC)  
(74) dr. A. Krebs  
(72) Franz Bracher  
Christoph Anton Müller  
Patrick Cornelis Nicolaas Rensen  
Martin Andreas Giera  
(41) 11.09.2023
- 
- (51) A61K 38/17  
A61K 48/00  
A61P 35/00  
C12N 15/86  
A61P 1/16  
(21) 2031110  
(22) 28.02.2022  
(54) RECOMBINANT ADENO-ASSOCIATED VIRUS VECTOR, RECOMBINANT ADENO-ASSOCIATED VIRUS AAV8-PD1 AND USE THEREOF  
(71) The First Affiliated Hospital of Hainan Medical University  
(74) ir. M.B. Plaggenborg  
(72) Shaojiang Zheng  
Yanda Lu  
Yun Chen  
Siru Liu  
Yao Yao  
Dongju Feng  
Zewei Zhou  
Xiaodian Zhang  
(41) 07.09.2023
- 
- (51) A61K 39/395  
A61P 37/02  
C07K 16/18  
(21) 2031107  
(22) 28.02.2022  
(54) MEDICAL USE OF ANTI-RIBOSOMAL PROTEIN SA ANTIBODY IN IMMUNOREGULATION  
(71) Jilin University  
(74) ir. M.B. Plaggenborg  
(72) Tong Wu  
Hexiang Jiang  
Liancheng Lei  
Rining Zhu  
Siyu Lei  
Xiaoguang Zhang  
Hongtao Liu  
Ziheng Li  
(51) A61L 2/10  
A61L 2/22  
B65B 55/02  
A61L 2/14  
(21) 2031108  
(22) 28.02.2022
- (54) DISINFECTION SYSTEM FOR NOVEL CORONAVIRUS OF FOOD OUTER PACKAGE IN COLD-CHAIN LOGISTICS  
(71) ZHENGZHOU RAILWAY VOCATIONAL & TECHNICAL COLLEGE  
Heming (Shanghai) Environmental Technology Co., Ltd.  
(74) ir. M.B. Plaggenborg  
(72) Ailing Wen  
Baiqiang Zhai  
Xiaoli Zhao  
Qiuping Pan  
Xiaoxia Zhang  
(41) 07.09.2023
- 
- (51) A61L 24/00  
A61L 24/06  
A61L 24/08  
A61L 24/10  
(21) 2031075  
(22) 24.02.2022  
(54) CORE-SHELL EMBOLIZATION MICROSPHERE PRELOADED WITH CHEMOTHERAPEUTIC DRUG AND PREPARATION METHOD THEREOF  
(71) Energy Research Institute of Shandong Academy of Sciences  
(74) ir. M.B. Plaggenborg  
(72) Chengmin Chen  
Yan Li  
Jianchun Wang  
Jianmei Wang  
Pei Zhao  
(41) 06.09.2023
- 
- (51) A61M 25/02  
(21) 2031314  
(22) 17.03.2022  
(54) SEALING DEVICE AND DRAINAGE TUBE ASSEMBLY  
(71) Shun LIU  
Zheng FU  
Xiaolei LI  
(74) ir. W.J.J.M. Kempes  
(72) Wei Cai  
Shun Liu  
Qiancheng Du  
Yue He  
Zheng Fu  
Jian Wang  
Chengkai Hu  
Hao Chen  
Zhilong Zhang  
(31) 202220443928.7  
(32) 03.03.2022  
(33) China
- 
- (51) A61P 31/16  
C07K 16/10  
A61K 47/69  
A61K 39/00  
C07K 19/00  
(21) 2034221  
(22) 24.02.2023  
(54) ANTI-H1N1 SUBTYPE INFLUENZA VIRUS NANOPARTICLES BASED ON SELF-ASSEMBLED FERRITIN, PREPARATION METHOD AND APPLICATION THEREOF

- (71) The Second Hospital of Nanjing (Nanjing Hospital affiliated to Nanjing University of Traditional Chinese Medicine)  
(74) dr. T. Wittop Koning PhD  
(72) Mingxuan Wang  
Xuehua Wan  
Junwei Li  
Yan Wan  
(41) 11.09.2023  
(31) 202210548788.4  
(32) 20.05.2022  
(33) China
- 
- (51) A61P 35/02  
C07K 14/725  
C07K 16/30  
(21) 2031118  
(22) 01.03.2022  
(54) T CELL RECEPTORS DIRECTED AGAINST TRANSCRIPTION FACTOR WT1 AND USES THEREOF  
(71) Academisch Ziekenhuis Leiden (h.o.d.n. LUMC)  
(74) dr. A. Krebs  
(72) J.H. Frederik Falkenburg  
Mirjam H.M. Heemskerk  
(41) 07.09.2023
- 
- (51) B01J 19/00  
C08J 3/075  
C08L 29/04  
(21) 2031074  
(22) 24.02.2022  
(54) METHOD FOR RAPIDLY PREPARING MONODISPERSE POLYVINYL ALCOHOL (PVA) MICROSPHERES AT ROOM TEMPERATURE  
(71) Energy Research Institute of Shandong Academy of Sciences  
(74) ir. M.B. Plaggenborg  
(72) Yan Li  
Hongyu Si  
Jianmei Wang  
Chengmin Chen  
Pei Zhao  
Jianchun Wang  
(41) 06.09.2023
- 
- (51) B01J 20/20  
(21) 2031154  
(22) 03.03.2022  
(54) MODIFIED STRAW BIOCHAR AND PREPARATION METHOD AND APPLICATION THEREOF  
(71) Hohai University  
(74) ir. M.B. Plaggenborg  
(72) Wenshuo Zhang  
Yanyu Wang  
Xiaohou Shao  
Lina Chen  
Haiming Wang  
Wenbo Wu  
Guomian Guo  
(41) 08.09.2023
- 
- (51) B23K 20/12  
B23K 20/26  
(21) 2034283  
(22) 08.03.2023  
(54) FRICTION WELDING MACHINE  
(71) Harbin Welding Institute Limited Company
- (74) ir. M.B. Plaggenborg  
(72) Yue Lin  
Ming Xu  
Chunbo Zhang  
Yanquan Wu  
Feng Qin  
Wu Liang  
Jun Zhou  
Rui Li  
Yunlei Li  
Haifeng Yang  
Yushan Zhao  
Qi Wang  
Hanlin Yan  
Wenhan Zhang  
Gadi Jin  
(31) 202210236170.4  
(32) 11.03.2022  
(33) China
- 
- (51) B23K 20/12  
B23K 20/26  
(21) 2034298  
(22) 08.03.2023  
(54) ROTARY ISOLATING MECHANISM AND FRICTION WELDING MACHINE  
(71) Harbin Welding Institute Limited Company  
(74) ir. M.B. Plaggenborg  
(72) Haifeng Yang  
Chunbo Zhang  
Wu Liang  
Qi Wang  
Hanlin Yan  
Gadi Jin  
Ming Xu  
Rui Li  
Wenhan Zhang  
Yunlei Li  
Yanquan Wu  
Yue Lin  
Feng Qin  
Yushan Zhao  
Jun Zhou  
(31) 202210236256.7  
(32) 11.03.2022  
(33) China
- 
- (51) B24B 41/02  
B24B 41/00  
B24B 27/00  
B24B 41/06  
B24B 29/06  
B24B 19/26  
(21) 2031166  
(22) 04.03.2022  
(54) ASSEMBLY-LINE TYPE AUTOMATIC GRINDING DEVICE  
(71) Nobot Intelligent Equipment (Shandong) Co., Ltd.  
(74) ir. W.J.J.M. Kempes  
(72) Xinhua Yan  
Shoule Zhen  
Liwei Fu  
Jianchao Wu  
Qun Sun  
Dongjie Zhao
- 
- (51) B27J 1/00  
(21) 2031094  
(22) 28.02.2022  
(54) Method of mechanically processing bamboo splits obtained from bamboo culm; a bamboo product obtained using such a method; and a processing system for processing bamboo splits  
(71) Moso International B.V.  
(74) ir. H.Th. van den Heuvel c.s.  
(72) Jacob Hendrik van der Vegte  
Ireneus Alexius Wilhelmus Zaal  
(41) 07.09.2023
- 
- (51) B29C 64/20  
B33Y 30/00  
B33Y 40/00

B29C 64/209	(72) Xue-Sen Liao	(71) Henan Institute of Product Quality
B29C 64/245	(31) 111202426	Supervision and Inspection
B29C 64/295	(32) 10.03.2022	(74) ir. M.B. Plaggenborg
B29C 64/321	(33) Taiwan, Chinese Taipei	(72) Daoyuan Yang
B29C 64/393	(51) B62K 3/00	Bo Feng
(21) 2031105	B62K 21/10	Huiyu Yuan
(22) 28.02.2022	A63C 17/00	Ke Yin
(54) SCREW EXTRUSION TYPE 3D	A63C 17/01	(41) 08.09.2023
PRINTER WITH RETRACTION	(21) 2031139	(51) C08J 3/00
FUNCTION	(22) 02.03.2022	C08L 3/02
(71) Zhejiang Normal University	(54) Personal transportation vehicle, such as	(21) 2031143
(74) ir. M.B. Plaggenborg	a scooter	(22) 02.03.2022
(72) Zhonglue Hu	(71) Worldwide Trading Services International	(54) ANNEALING TREATMENT
Sisi Wang	BVBA	BASED MODIFIED STARCH AND
Xiping Li	(74) ir. H.A. Witmans c.s.	PREPARATION METHOD AND
Jiawen He	(72) Floris Maarten Wiegerinck	APPLICATION THEREOF
Bin Wang	Gerardus Johannes Christiaan Blom	(71) Qingdao Agricultural University
(41) 07.09.2023	(51) B63B 83/00	(74) ir. M.B. Plaggenborg
(51) B30B 9/30	B63B 83/30	(72) Xiaoyu Chen
B65F 1/14	B63B 1/38	Lin Gao
B65F 1/16	(21) 2030857	Yang Qin
(21) 2031069	(22) 09.02.2022	Yanfei Wang
(22) 24.02.2022	(54) A method for providing a hull of a vessel	Qingjie Sun
(54) Litter collection and compactor device	with bubble generators	Na Ji
(71) VConsyst Participaties B.V.	(71) Alfa Laval Rotterdam B.V.	Man Li
(74) ir. F.A. Geurts c.s.	(74) ir. W.J.J.M. Kempes	Liu Xiong
(72) Roy Johannes Gijbertus Paschedag	(72) Pieter Kapteijn	(41) 08.09.2023
(41) 06.09.2023	(41) 07.09.2023	(51) C08L 75/08
(51) B60C 29/06	(51) B65G 47/90	E01B 1/00
(21) 2031063	B65G 47/08	(21) 2034116
(22) 24.02.2022	(21) 2031169	(22) 08.02.2023
(54) a valve stem and system and sealant	(22) 05.03.2022	(54) HIGH-DAMPING INTELLIGENT
application tool for a tubeless tyre setup.	(54) Inrichting voor het samenstellen van	VIBRATION ATTENUATION SHEET
(71) Greenpath B.V.	producten	MATERIAL AND PREPARATION
(74) ir. A. Blokland c.s.	(71) Gearbox BV.	METHOD THEREOF
(72) Eugène Antoine Adriaan Herben	(74) ir. G.J.M. Verhees	(71) Shanghai Jiao Tong University
Gertjan van Ginderen	(72) Johan Clemens Carel Kreeft	Ma'anshan Economic and Technological
(41) 06.09.2023	Joris Gerrit Kuiper	Development Zone Construction
(51) B60L 13/06	Sylvester Noordam	Investment Co., Ltd.
(21) 2031146	(41) 11.09.2023	(74) ir. M.B. Plaggenborg
(22) 03.03.2022	(51) B66C 1/12	(72) Wenzheng Chen
(54) Actuator arrangement comprising	(21) 2031064	Hua Li
permanent magnets	(22) 24.02.2022	Yujie Chen
(71) Technische Universiteit Eindhoven	(54) A Protective Sleeve For A Load Carrying	Qitan Zheng
(74) ir. A. Blokland c.s.	Sling	Hezhou Liu
(72) David Christian Johannes Krop	(71) Enduro Softslings B.V.	Qunfu Fan
(51) B60L 53/53	(74) dr. R.C. van Duijvenbode c.s.	Qili Yu
B60L 53/31	(72) Sytse van der Molen	(31) 202210214570.5
B60L 53/14	(41) 06.09.2023	(32) 07.03.2022
H02M 1/00	(51) B66C 1/32	(33) China
H02J 7/00	B66C 1/44	(51) C11B 1/02
(21) 2031027	(21) 2031095	A23D 9/02
(22) 22.02.2022	(22) 28.02.2022	A23K 10/14
(54) Reduced dissipation converter for	(54) Hoisting device	A23L 33/115
battery-buffered fast-charging of electric	(71) Ashley Albertus Jacobus Gertrude Maria	A23L 3/3508
vehicles.	van Dieten	A61P 31/00
(71) Technische Universiteit Eindhoven	(74) ir. F.A. Geurts c.s.	(21) 2031036
(74) ir. A. Blokland c.s.	(72) Ashley Albertus Jacobus Gertrude Maria	(22) 22.02.2022
(72) Dongsheng Yang	van Dieten	(54) INSECT-DERIVED, ENZYME-MODIFIED
(41) 06.09.2023	(41) 07.09.2023	LIPID COMPOSITION
(51) B62J 11/00	(51) B82Y 15/00	(71) Protix B.V.
(21) 2031883	B82Y 40/00	(74) dr. R.C. van Duijvenbode c.s.
(22) 17.05.2022	G01L 1/22	(72) Monika Dalim
(54) ACCESSORY FIXING MODULE FOR	(21) 2031141	Aman Paul
BICYCLE HANDLEBAR	(22) 02.03.2022	(41) 06.09.2023
(71) HSIN LUNG ACCESSORIES CO., LTD.	(54) NANO PRESSURE SWITCH AND	(51) C12N 15/12
(74) ir. A.R. Aalbers	PREPARATION METHOD THEREOF	C07K 14/46
		A61K 48/00

(21) 2035702	Peter Gerard Steeneken	(72) Lars Jacob Cornelis van der Zee
(22) 29.08.2023	(41) 11.09.2023	Kaj Melvin van Vliet
(54) TRACHINOTUS OVATUS B	(51) C12Q 1/689	Jacob Christiaan Slootweg
CELL LYMPHOMA-2 GENE,	(21) 2034043	(41) 11.09.2023
TRACHINOTUS OVATUS B CELL	(22) 30.01.2023	(51) C25B 9/07
LYMPHOMA-2 PROTEIN, PLASMID,	(54) PRIMER GROUP, KIT AND METHOD	C25B 15/033
AND APPLICATION OF TRACHINOTUS	FOR IDENTIFYING BRUCELLA	C25B 1/044
OVATUS B CELL LYMPHOMA-2 GENE	EPIDEMIC STRAIN AND M5 STRAIN	C25B 1/50
(71) HAINAN UNIVERSITY	AND APPLICATION THEREOF	(21) 2031152
(74) ir. M.B. Plaggenborg	(71) Shihezi University	(22) 03.03.2022
(72) Yongcan Zhou	(74) dr. T. Wittop Koning PhD	(54) Method and device for producing
Hehe Du	(72) Yang Liu	hydrogen from water
Ying Wu	Yong Wang	(71) Water Energy Patent B.V.
Zhenjie Cao	Xia Zhou	(74) ir. A.E. Dekker-Garms
Xin Yang	Liangbo Liu	(72) Valeriy Anatol'evic Guzeyev
Yun Sun	Jing Zhang	Jan Parlevliet
(31) 2022112734157	Xingmei Deng	(41) 08.09.2023
(32) 18.10.2022	Zhen Wang	(51) D01F 6/62
(33) China	Yu Zhang	D01F 8/14
(51) C12N 15/29	Hui Zhang	D01D 5/30
A01H 5/02	Jia Guo	D01F 1/10
A01H 6/62	(41) 11.09.2023	(21) 2031172
C07K 14/415	(51) C12Q 1/689	(22) 07.03.2022
C12N 15/82	(21) 2034045	(54) Biodegradable filament and method of
(21) 2031044	(22) 30.01.2023	producing biodegradable filament
(22) 23.02.2022	(54) PRIMER GROUP, KIT AND METHOD	(71) SENBIS GROUP B.V.
(54) REGULATORY GENE FOR FLORAL	FOR IDENTIFYING BRUCELLA	(74) ir. H.Th. van den Heuvel c.s.
ORGAN DEVELOPMENT OF CHINESE	EPIDEMIC STRAIN IN XINJIANG	(72) Bastiaan Krins
CYMBIDIUM, AND ENCODED PROTEIN	AND S2 STRAIN AND APPLICATION	(41) 11.09.2023
AND USE THEREOF	THEREOF	(51) E01C 3/04
(71) Environmental horticulture Research	(71) Shihezi University	E01C 3/06
Institute of Guangdong Academy of	(74) dr. T. Wittop Koning PhD	(21) 2031135
Agricultural Sciences	(72) Yang Liu	(22) 02.03.2022
(74) ir. M.B. Plaggenborg	Xia Zhou	(54) ANTI-SETTLEMENT CONSTRUCTION
(72) Fengxi Yang	Liangbo Liu	METHOD FOR HIGHWAY
Genfa Zhu	Jing Zhang	(71) NANCHANG RAILWAY ENGINEERING
Yonglu Wei	Hui Zhang	CO., LTD. OF CHINA RAILWAY 24TH
Chuqiao Lu	Zhen Wang	BUREAU GROUP
Lingyuan Peng	Yong Wang	(74) ir. W.J.J.M. Kempes
(41) 06.09.2023	Jia Guo	(72) Ming Huang
(51) C12P 7/22	Xingmei Deng	Xianquan Tang
C12N 9/10	Yu Zhang	Xin Zhao
(21) 2031273	(41) 11.09.2023	Xu Wu
(22) 14.03.2022	(51) C14C 1/06	Hongyue Sun
(54) BIOPRODUCTION OF BAKUCHIOL	(21) 2031083	Changhong Liu
(71) Sestina Bio, LLC	(22) 25.02.2022	Qian Huang
(74) dr. ir. G.J.C. Verdijck c.s.	(54) Process for liming of hides, skins or pelts	Chengjing Cui
(72) Amanda Reider Apel	(71) Stahl International B.V.	Zhonghua Wu
Abhinav Kumar	(74) ir. H.A. Witmans c.s.	Wen Gao
(41) 11.09.2023	(72) Andreas Gerardus Josephus Maria van	Xiangdong Liang
(31) 63/316,855	der Ham	Chulan Hu
(32) 04.03.2022	(41) 07.09.2023	Fengjiao Peng
(33) United States of America	(51) C25B 1/01	Libo Gao
(51) C12Q 1/02	C01B 6/11	Chunhai Cai
B82Y 5/00	C25B 1/04	Mingzhou Xie
G01N 15/10	C25B 1/16	Heng Zhou
G01N 29/02	C25B 1/20	Kai Mei
G01N 33/543	C25B 9/19	Dahuan Jiang
(21) 2031130	C01B 3/06	Pengfei Jing
(22) 02.03.2022	C25B 1/22	(41) 08.09.2023
(54) Clinical sample preparation and handling	C25B 15/08	(51) E02F 5/10
for activity monitoring of single living	C25C 3/02	(21) 2030849
micro- and nano-organism	(21) 2031153	(22) 08.02.2022
(71) Technische Universiteit Delft	(22) 03.03.2022	(54) UNDERWATER PLOUGH AND
(74) drs. P.A. van Essen c.s.	(54) Method of Producing a Metal	METHOD OF OPERATING AN
(72) Farbod Alijani	Borohydride or Boric Acid from Metal	UNDERWATER PLOUGH
Aleksandre Japaridze	Metaborate	(71) Royal IHC Limited
Ireneusz Eugeniusz Roslon	(71) H2FUEL Works B.V.	(74) dr. A. Krebs

(72) Jonathan Ralph Manchester	(71) ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY	Péter Budavári
(51) E21B 10/36	(74) ir. M.B. Plaggenborg	Csaba Horváth
E21C 35/22	(72) Sheng Xue	János Péter Szügyi
E21B 10/38	Xin Guo	(51) F24H 1/10
E21B 10/44	Yaobin Li	(21) 2031081
E21B 47/12	Chunshan Zheng	(22) 25.02.2022
E21B 15/00	(41) 06.09.2023	(54) Een doorstroomverwarmer voor het opwarmen van een vloeibaar medium
E21B 21/015	(51) F04D 7/02	(71) AWIN B.V.
E21D 20/00	F04D 29/22	(74) ir. B.J. 't Jong
(21) 2031051	F04D 1/00	(41) 07.09.2023
(22) 23.02.2022	(21) 1044267	(51) F24S 10/50
(54) BOLT MOUNTING DEVICE AND MOUNTING METHOD	(22) 22.02.2022	F24S 10/75
(71) NANCHANG RAILWAY ENGINEERING CO., LTD. OF CHINA RAILWAY 24TH BUREAU GROUP	(54) CRYOGENIC PUMP ASSEMBLY	F24S 10/30
(74) ir. W.J.J.M. Kempes	(71) Marflex Holding B.V.	H02S 40/44
(72) Ming Huang	(72) Engbert Ane Mulder	F24S 10/20
Changhong Liu	Gerardus Johannes Stefanus van der Gulik	(21) 2031116
Zhonghua Wu	Gerrit Hans Hofmeijer	(22) 01.03.2022
Pengfei Jing	(41) 06.09.2023	(54) Zonnepaneel ingericht voor geforceerde ventilatie, klimaatsysteem voor een gebouw, voorzien van een dergelijk zonnepaneel en werkwijze voor het opwekken van energie en/of het beheersen van het klimaat in een gebouw gebruik makend van een dergelijk zonnepaneel
Kai Mei	(51) F16B 37/04	(71) Jan Putman Beheer B.V.
Xiangdong Liang	(21) 2031082	(74) ir. A. Blokland c.s.
Xin Zhao	(22) 25.02.2022	(72) Johannes Josephus Albertus Putman
Chunhai Cai	(54) Anchoring assembly, nut holder, combination of an anchoring assembly and a structural element, method of mounting an anchoring assembly in a thin-walled structural element	(41) 07.09.2023
Heng Zhou	(71) J. van Walraven Holding B.V.	(51) F25D 11/00
Dahuan Jiang	(74) ir. J.C. Volmer c.s.	(21) 2031142
Wen Gao	(72) Marek Juzak	(22) 02.03.2022
Libo Gao	Frank Nijdam	(54) COLD-CHAIN LOGISTICS COLD ACCUMULATION SYSTEM
Xianquan Tang	(51) F16C 11/00	(71) ZHENGZHOU RAILWAY VOCATIONAL & TECHNICAL COLLEGE
Chengjing Cui	(21) 2034142	(74) ir. M.B. Plaggenborg
Mingzhou Xie	(22) 14.02.2023	(72) Huiling Wang
Fengjiao Peng	(54) Bearing arrangement	Baiqiang Zhai
Changchun Tang	(71) Vibracoustic SE	Longteng Li
(41) 06.09.2023	(74) ir. H.Th. van den Heuvel c.s.	Yang Geng
(51) E21B 17/02	(72) Hilrich Kardoos	Hongtao Wang
(21) 2032272	David Rose	(41) 08.09.2023
(22) 24.06.2022	Ralf Steinhardt	(51) G01B 7/16
(54) RATCHET-TYPE AUTOMATIC-ASSEMBLING-AND- DISASSEMBLING FORWARD-AND-REVERSE-ROTATABLE COMMUNICATION DRILL PIPE FOR COAL MINE DRILLING ROBOT	Philipp Werner	G01C 5/00
(71) CHINA UNIVERSITY OF MINING AND TECHNOLOGY	(31) 10 2022 105 703.8	(21) 2031038
(74) drs. C.M.A. Quintelier	(32) 10.03.2022	(22) 22.02.2022
(72) Jiahao Li	(33) Germany	(54) GEOTECHNICAL ENGINEERING SLIP DEFORMATION MONITORING AND EARLY WARNING SYSTEM
Xuliang Lu	(51) F16M 11/04	(71) Weifang Runyike New Material Co., Ltd.
Lei Si	F16M 11/16	(74) ir. M.B. Plaggenborg
Zhongbin Wang	F16M 11/34	(72) Haiyan Zhao
Penghui Zhang	(21) 2031138	(51) G01H 17/00
Dong Wei	(22) 02.03.2022	G01R 31/34
Chao Tan	(54) Portable support stand comprising a vibration damper	(21) 2031030
Haifeng Yan	(71) Dovi Group B.V.	(22) 22.02.2022
Xinhua Liu	(74) dr. ir. G.J.C. Verdijck c.s.	(54) APPARATUS FOR TESTING NOISE, VIBRATION, AND OTHER RELEVANT PERFORMANCES OF SMALL MOTOR FOR VEHICLE UNDER LOAD CONDITION
(31) 202210231541X	(72) Franciscus Adrianus Cornelis van Dongen	(71) China Automotive Engineering Research Institute Co., Ltd.
(32) 10.03.2022	(41) 08.09.2023	Shenzhen Vortex Technology Co., Ltd.
(33) China	(51) F21V 21/116	(74) ir. W.J.J.M. Kempes
(51) E21B 47/117	F21S 8/08	
G01M 3/32	F21V 15/01	
E21F 7/00	(21) 2031087	
(21) 2031041	(22) 25.02.2022	
(22) 22.02.2022	(54) IMPROVED LUMINAIRE HEAD FOR MOUNTING ON A POLE	
(54) DEVICE FOR TESTING AIRTIGHTNESS OF HOLE SEALING MATERIAL AND USE METHOD	(71) SCHREDER S.A	
	(74) dr. ir. G.J.C. Verdijck c.s.	
	(72) Zoltán Janki	

(72) Peiran Li Hanjie Zeng	(41) 08.09.2023	G06F 16/55
(41) 06.09.2023	(51) G01V 1/30	G06F 16/58
(51) G01K 7/42	(21) 2031034	(21) 2031125
G01K 13/02	(22) 22.02.2022	(22) 01.03.2022
(21) 2031132	(54) METHOD OF QUANTITATIVELY CHARACTERIZING ACTIVITY INTENSITY OF A GROWTH FAULT	(54) TRAFFIC TARGET IMAGE RETRIEVAL METHOD AND APPARATUS BASED ON DEEP LEARNING, AND READABLE MEDIUM
(22) 02.03.2022	(71) Institute of Geology and Geophysics, Chinese Academy of Sciences	(71) Nanjing University of Science and Technology
(54) A Heavy Oil Production Pipe Non-intrusion Temperature Measurement System	(74) ir. W.J.J.M. Kempes	(74) ir. M.B. Plaggenborg
(71) Southwest Petroleum University	(72) Shoudong Huo	(72) Yong Qi
(74) A. Rivière	Liang Huang	Zhiming Xu
(72) Ze Hu	Taikun Shi	(41) 07.09.2023
Sanchun Gu	Hai Xu	(51) G06F 30/13
Qiang Mou	Xiaofang Du	G06F 30/28
Tingting Yang	Peng Hu	G01N 17/00
Guangyan Gu	Hongmei Lu	(21) 2031137
Shining Wen	Jun Gao	(22) 02.03.2022
Chao Wang	Shengqiang Mu	(54) A RAPID PREDICTION METHOD AND SYSTEM FOR RIVERBANK COLLAPSE CONSIDERING THE INFLUENCE OF VEGETATION ROOTS
Hao Chen	(51) G03F 7/20	(71) Nanjing Hydraulic Research Institute
Min Wang	(21) 2031133	(74) ir. W.J.J.M. Kempes
(51) G01L 19/08	(22) 02.03.2022	(72) Wenlian Gao
G01L 19/12	(54) Method for imaging a mask layer with two imaging settings and associated imaging system	Qiang Ying
(21) 2031163	(71) XSYS PREPRESS N.V.	Hongmei Zhang
(22) 04.03.2022	(74) dr. ir. G.J.C. Verdijk c.s.	Zhuoying Cang
(54) WIRELESS STRESS MONITORING EARLY WARNING INSTRUMENT AND MONITORING EARLY WARNING METHOD	(72) Dirk Ludo Julien de Rauw	Jun Yang
(71) SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY	(41) 11.09.2023	Changying Chen
(74) ir. W.J.J.M. Kempes	(51) G06F 3/01	Dongdong Jia
(72) Tongbin Zhao	G06F 3/023	Lei Wu
Liangke Xu	G06F 3/04886	Youzhi Hao
Yunliang Tan	A61B 5/397	Zhongbin Sun
Fenghai Yu	(21) 2031070	Xingnong Zhang
(41) 08.09.2023	(22) 24.02.2022	(41) 08.09.2023
(51) G01N 33/18	(54) SPATIALLY TRACKING MUSCLE ACTIVITY	(51) G06F 30/20
G01F 23/00	(71) Microsoft Technology Licensing, LLC	B63B 21/00
G01N 27/08	(74) ir. J.C. Volmer c.s.	(21) 2031067
(21) 2034107	(72) Aditha May Adams	(22) 24.02.2022
(22) 07.02.2023	Ryan Chang	(54) HYBRID BI-MODAL NON-GAUSSIAN RESPONSE AMPLITUDE PROBABILITY DISTRIBUTION MODEL BASED METHOD FOR ESTIMATING FATIGUE DAMAGE OF OFFSHORE STRUCTURE
(54) LAYERED MONITORING DEVICE AND METHOD FOR SEAWATER INTRUSION	Young Soo Kim	(71) Ocean University of China
(71) Water Resources Research Institute of Shandong Province	Kelly A Ohm	(74) ir. W.J.J.M. Kempes
(74) ir. M.B. Plaggenborg	Jazmine Hoyle	(72) Yixiang Zhao
(72) Xuequn Chen	Michael Bohan	Shuqing Wang
Qinghua Guan	Timothy G Escolin	Xiancang Song
Aiqin Wang	Spencer Lee Davis	Wei Tao
Yawen Chang	Scott D Schenone	Yuanzhi Guo
(31) 202210198058.6	Eduardo Sonnino	Yuyao Hou
(32) 02.03.2022	(41) 06.09.2023	(41) 06.09.2023
(33) China	(51) G06F 9/50	(51) G06F 40/40
(51) G01S 19/03	(21) 2031106	(21) 2031111
(21) 2031155	(22) 28.02.2022	(22) 28.02.2022
(22) 03.03.2022	(54) NETWORK DATA OFFLOADING METHOD AND DEVICE, AND COMPUTER STORAGE MEDIUM	(54) TRANSLATION METHOD, DEVICE, APPARATUS AND MEDIUM FOR SPANISH GEOGRAPHICAL NAMES
(54) VESSEL POSITION-CODING TERMINAL SYSTEM BASED ON BEIDOU NAVIGATION SATELLITE SYSTEM	(71) Qufu Normal University	(71) Chinese Academy of Surveying & Mapping
(71) EAST CHINA SEA FISHERIES RESEARCH INSTITUTE	(74) ir. M.B. Plaggenborg	(74) ir. M.B. Plaggenborg
(74) ir. M.B. Plaggenborg	(72) Guowei Zhang	(72) Xuejiao Yang
(72) Xin Sui	Yang Yang	Xi Mao
Weifeng Zhou	Maoli Wang	Weijun Ma
Tianfei Cheng	Xiaodong Zang	Jizhou Wang
Zuli Wu	(41) 07.09.2023	
	(51) G06F 16/51	
	G06N 3/04	
	G06N 3/08	
	G06F 16/532	

Wujun Gao	Alaa Nimer Abukhalifeh	(21) 2034267
Chuan Du	(41) 07.09.2023	(22) 03.03.2023
Zhangpeng Wang	(51) G10L 15/06	(54) PHOTOVOLTAIC CELL, METHOD
(41) 07.09.2023	(21) 2035518	FOR FORMING SAME, AND
(51) G06N 3/04	(22) 31.07.2023	PHOTOVOLTAIC MODULE
G06N 3/08	(54) INTELLIGENT VOICE AI PACIFYING	(71) JINKO SOLAR (HAINING) CO., LTD.
(21) 2031335	METHOD	(74) ir. J.D. de Zeeuw
(22) 18.03.2022	(71) Air Force Medical University	(72) Nannan Yang
(54) Similarity guided progressive decoder	(74) ir. M.B. Plaggenborg	Jingsheng Jin
fusion in neural networks deep learning	(72) Shengjun Wu	Bike Zhang
(71) NavInfo Europe B.V.	Hui Wang	(31) 202210202117.2
(74) mr. ir. J. van Breda c.s.	Peng Fang	(32) 03.03.2022
(72) Elahe Arani	Xufeng Liu	(33) China
Naresh Kumar Gurulingan	Xiuchao Wang	(51) H01M 4/04
Bahram Zonooz	Chaoxian Wang	H01M 10/056
(41) 08.09.2023	Tingwei Feng	H01M 4/38
(31) 17/686,273	(51) H01L 21/68	C23C 14/18
(32) 03.03.2022	H01L 21/67	H01M 4/134
(33) United States of America	H05K 13/04	H01M 4/1395
(51) G06N 3/04	(21) 2031053	H01M 4/36
G06N 3/08	(22) 23.02.2022	C25C 1/02
(21) 2031938	(54) Gripper head, device, and method for	H01M 10/0525
(22) 19.05.2022	handling and varying the spacing of	H01M 10/0565
(54) A computer-implemented method of	electronic components arranged in a	H01M 4/40
synaptic consolidation and experience	matrix structure	H01M 4/66
replay in a dual memory architecture	(71) BESI NETHERLANDS B.V.	H01M 4/70
(71) NavInfo Europe B.V.	(74) ir. H.Th. van den Heuvel c.s.	H01M 10/0568
(74) mr. ir. J. van Breda c.s.	(72) Mark Hermans	H01M 10/04
(72) Elahe Arani	(41) 06.09.2023	H01M 10/0569
Fahad Sarfraz	(51) H01L 23/66	H01M 10/058
Bahram Zonooz	H03F 1/02	(21) 2031071
(41) 08.09.2023	H03F 3/195	(22) 24.02.2022
(31) 17/686,263	H03F 3/213	(54) PRE-LOADED PROTECTED ANODE,
(32) 03.03.2022	H03F 3/24	BATTERY AND MANUFACTURING
(33) United States of America	(21) 2031122	METHOD
(51) G06N 3/045	(22) 01.03.2022	(71) LionVolt B.V.
G06N 3/08	(54) Doherty amplifier	(74) ir. H.A. Witmans c.s.
(21) 2031495	(71) Ampleon Netherlands B.V.	(72) Bihag Anothumakkool
(22) 05.04.2022	(74) dr. ir. G.J.C. Verdijck c.s.	Sathiyaraj Kandhasamy
(54) Method to add inductive bias into deep	(72) Zhi Geng	Sandeep Unnikrishnan
neural networks to make them more	Yi Zhu	Freddy Roozeboom
shape-aware	(41) 07.09.2023	(41) 06.09.2023
(71) NavInfo Europe B.V.	(51) H01L 31/0224	(51) H01M 50/00
(74) mr. ir. J. van Breda c.s.	H01L 31/04	(21) 2035740
(72) Elahe Arani	(21) 2034304	(22) 04.09.2023
Bahram Zonooz	(22) 09.03.2023	(54) LIQUID COOLED LITHIUM BATTERY
Shruthi Gowda	(54) Solar Cell, Electrode Structure, Cell	ENERGY STORAGE POWER STATION
(41) 08.09.2023	Module, Power Generation System and	HAVING INERTING EXPLOSION
(31) 17/686,267	Preparation Method	PROTECTION FUNCTION
(32) 03.03.2022	(71) ZHUHAI FUSHAN AIKO SOLAR	(71) Dalian University of Technology
(33) United States of America	TECHNOLOGY CO., LTD	(74) ir. M.B. Plaggenborg
(51) G06N 5/04	TIANJIN AIKO SOLAR TECHNOLOGY	(72) Xiaojie Li
G06Q 10/06	CO., LTD	Cong Chen
(21) 2031090	GUANGDONG AIKO SOLAR	Yongchen Song
(22) 28.02.2022	TECHNOLOGY CO., LTD.	Yubai Li
(54) INNOVATIVE RURAL TOURISM	ZHEJIANG AIKO SOLAR	(51) H01M 50/00
EFFICIENCY EVALUATION METHOD	TECHNOLOGY CO., LTD.	(21) 2035666
BASED ON FUZZY COMPREHENSIVE	(74) dr. A. Krebs	(22) 23.08.2023
EVALUATION	(72) Jianjun Zhang	(54) LITHIUM BATTERY ENERGY
(71) Baicheng Teachers College	Wenli Xu	STORAGE POWER STATION
(74) dr. A. Krebs	Yongqian Wang	INTEGRATING TEMPERATURE
(72) Xinbo Zhou	Gang Chen	CONTROL AND FIRE AND EXPLOSION
Bo Xu	(31) 202210239656.3	PROTECTION
Xiaoling Lu	(32) 11.03.2022	(71) Dalian University of Technology
Biao Gao	(33) China	(74) ir. M.B. Plaggenborg
Lihua Liu	(51) H01L 31/04	(72) Xiaojie Li
Hongyan Cui	H01L 23/544	Yubai Li
Yichao Wu		(51) H02G 3/22



F16L 5/10	(72) Klaas Johannes Zwart
(21) 2031059	(51) H04L 27/00
(22) 24.02.2022	H04W 16/14
(54) SEALING ELEMENT FOR SEALING A PASSAGE FOR A CABLE ASSEMBLY THROUGH A WALL, AND ITS USE IN HOUSING FOR ACCOMMODATING DEVICES SUCH AS ELECTRICAL, ELECTRONIC AND OPTICAL DEVICES	(21) 2031040 (22) 22.02.2022 (54) COOPERATIVE TRANSMISSION METHOD AND DEVICE OF COGNITIVE WIRELESS NETWORK BASED ON RENEWABLE ENERGY
(71) Minkels B.V. Legrand SNC Legrand France	(71) Guangdong Polytechnic Normal University
(74) dr. ir. G.J.C. Verdijck c.s.	(74) ir. M.B. Plaggenborg
(72) Bastiaan Rutgers	(72) Chun Shan
(41) 06.09.2023	Xiaolong Chen
(51) H02J 7/00	(41) 06.09.2023
B60L 53/122	(51) H04N 9/67
B60L 53/22	G01N 21/31
H02J 50/40	G01J 3/51
H02J 50/12	G06V 20/10
(21) 2031085	G01J 3/28
(22) 25.02.2022	H04N 5/33
(54) An inductive power transfer system for wirelessly charging a battery with either half or double the nominal battery voltage for the same output power as well as a corresponding method.	G06T 7/00 H04N 9/04 G01N 21/25
(71) Technische Universiteit Delft	(21) 2031092
(74) ir. A. Blokland c.s.	(22) 28.02.2022
(72) Thiago Batista Soeiro Francesca Grazian Pavol Bauer	(54) MULTISPECTRAL IMAGING SYSTEM AND METHOD FOR USING THE SYSTEM
(41) 07.09.2023	(71) DB2 Vision B.V.
(51) H02K 1/12	(74) ir. J.C. Volmer c.s.
H02K 1/27	(72) René Gerhardus Damen
H02K 7/116	(41) 07.09.2023
H02K 7/18	(51) H05G 2/00
(21) 2031164	G03F 7/20
(22) 04.03.2022	(21) 2034100
(54) ELECTROMAGNETIC ENERGY HARVESTING DEVICE	(22) 07.02.2023
(71) Beijing Institute of Technology	(54) EXTREME ULTRAVIOLET LIGHT GENERATION SYSTEM AND ELECTRONIC DEVICE MANUFACTURING METHOD
(74) ir. W.J.J.M. Kempes	(71) Gigaphoton Inc.
(72) Haipeng Liu Xiangyong Zhang Huiyuan Guan Tingrui Peng Yan Liu Bin Su	(74) ir. A. Blokland c.s. (72) Shogo Kitasaka Yuichi Nishimura
(41) 08.09.2023	(31) 2022-128586 2022-034740
(51) H03F 3/195	(32) 12.08.2022
H03F 3/213	07.03.2022
H03F 1/02	(33) Japan
(21) 2031173	Japan
(22) 07.03.2022	
(54) RF AMPLIFIER AND ELECTRONIC DEVICE COMPRISING THE SAME	
(71) Ampleon Netherlands B.V.	
(74) dr. ir. G.J.C. Verdijck c.s.	
(72) Radjindrepersad Gajadharsing Junlei Zhao Mohadig Widha Rousstia	
(51) H04L 9/32	
(21) 2031049	
(22) 23.02.2022	
(54) user identification system	
(71) Hanscan Holdings Limited	
(74) ir. H.A. Witmans c.s.	

## 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) A01B 45/02 A01C 23/02	(54) INTELLIGENT AND ANTI-BLOCKING FERTILIZING APPARATUS FOR LARGE-PARTICLE FERTILIZERS	(73) Shandong Shouguang Vegetable Industry Group Co., Ltd. National Vegetable Quality Standard Center Weifang Seed Valley Agricultural Technology Development Co., Ltd.
(11) 2031148 (47) 11.09.2023 (22) 03.03.2022	(73) Shenyang Institute of Applied Ecology, Chinese Academy of Sciences	
(54) WERKWIJZE EN INRICHTING VOOR HET VERHOGEN VAN HET VOCHTGEHALTE VAN EEN HYDROFOBISCHE BODEM	(72) Yuanliang Shi Jie Li Wenyu Wang Zongyun Lu Wei Wang Yaqun Li	(72) Yongjun Hu Zhongyi Zhang Subo Tian Haibo Xia Kunting Wang Yingying Hu Renjie Wang Xiaofei Xin
(73) Gerrit Jan Vink (72) Gerrit Jan Vink (74) drs. C.H. Mink-Lindenburg	(74) dr. R.C. van Duijvenbode c.s.	
(51) A01C 1/00 (11) 2031127 (47) 07.09.2023 (22) 01.03.2022	(31) 202210201935.0 (32) 03.03.2022 (33) China	(74) ir. W.J.J.M. Kempes (31) 202210192005.3 (32) 01.03.2022 (33) China
(54) METHOD FOR PROMOTING GERMINATION OF MALLOTUS APELTA (LOUR.) MÜLL. ARG. SEEDS	(11) 2031919 (47) 07.09.2023 (22) 18.05.2022	(51) A01G 22/35 B65B 25/02 B65B 5/08 B65G 47/24 B65B 35/56
(73) Kunming Institute of Botany, Chinese Academy of Sciences	(54) Plantenhouder met etiketsleuf	(11) 2033365 (47) 07.09.2023 (22) 20.10.2022
(72) Jidong Ya Yajuan Yang Xiaojian Hu Lei Fan Jie Cai Ting Zhang Li Huang Xiangyun Yang Yongjie Guo Hui Li	(73) Pöppelmann Holding GmbH & Co. KG. (72) Günther Orschulik Thorsten Landwehr	(54) INRICHTING VOOR HET AANDRUKKEN VAN BOLGEWASSEN EN WERKWIJZE VOOR HET AANDRUKKEN
(74) ir. M.B. Plaggenborg	(74) ir. J.C. Volmer c.s. (31) 202021001774.7 (32) 18.05.2021 (33) Germany	(73) Mark Jacob van der Peet (72) Mark Jacob van der Peet (74) dr. ir. G.J.C. Verdijck c.s. (31) 2029479 (32) 20.10.2021 (33) Netherlands
(51) A01C 1/00 A01G 24/10 A01G 24/20	(51) A01G 9/029 A01G 31/06	(51) A01G 23/04 B65B 25/02
(11) 2031028 (47) 06.09.2023 (22) 22.02.2022	(11) 2034439 (47) 11.09.2023 (22) 27.03.2023	(11) 1044275 (47) 08.09.2023 (22) 02.03.2022
(54) METHOD FOR EFFICIENT GERMINATION AND SEEDLING SURVIVAL OF BLUEBERRY SEEDS	(54) Spraying fertilization mechanism and Epimedium planting and seedling raising device	(54) Method of preparing a plant for transport, and an apparatus
(73) Liaoning Institute of Pomology	(73) The Key Laboratory of Chemistry for Natural Products of Guizhou Province and Chinese Academy of Sciences(Key Laboratory of Chemistry for Natural Products of Guizhou Medical University) Guizhou University	(73) J. van Dam Onroerend Goed B.V. (72) Gerrit Baars Hendrik Baars
(72) Youchun Liu Xingdong Wang Cheng Liu Yanmin Yang Jiaqi Li Hongguang Wang Yuchun Yang Shuqing Gao Xiuli Liu	(72) Chao Sun Jiachun Zhang Zhenming Zhang Hualin Hu Hualei Wang	(74) ir. J.H. de Hoog
(74) ir. W.J.J.M. Kempes	(74) dr. T. Wittop Koning PhD (31) 202211662755.9 (32) 23.12.2022 (33) China	(51) A01H 5/08 A01H 6/82 C12Q 1/6895
(51) A01C 7/12 A01C 7/14	(51) A01G 22/05 A01B 79/02 C05F 17/20	(11) 2031136 (47) 08.09.2023 (22) 02.03.2022
(11) 2033983 (47) 11.09.2023 (22) 18.01.2023	(11) 2034229 (47) 07.09.2023 (22) 27.02.2023	(54) SET OF KOMPETITIVE ALLELE SPECIFIC PCR (KASP)-BASED CORE SINGLE NUCLEOTIDE POLYMORPHISM (SNP) MARKERS FOR EGGPLANT AND USE THEREOF
	(54) CULTIVATION METHOD FOR HIGH- QUALITY TOMATOES	

(73) Institute of Vegetables and Flowers, Chinese Academy of Agricultural Sciences	(74) ir. M. van der Velden	A23P 20/10
(72) Jinshuai Shu Fuzhong Liu Ying Zhang Yuhui Chen	(51) A23J 3/14 C12N 11/02 C12P 21/06	(11) 2031145 (47) 08.09.2023 (22) 02.03.2022
(74) ir. W.J.J.M. Kempes	(11) 2031144 (47) 08.09.2023 (22) 02.03.2022	(54) SLOWLY DIGESTIBLE STARCH AS WELL AS PREPARATION METHODS AND APPLICATIONS THEREOF
(51) A01K 5/02 A01K 39/01	(54) MAGNETIC MICROSPHERIC IMMOBILIZED PROTEASE, INSTANT HIGH-NITROGEN-SOLUBILITY-INDEX VEGETABLE PROTEIN PREPARED FROM SAME AND PREPARATION METHOD	(73) Qingdao Agricultural University (72) Na Ji Liu Xiong Congli Cui Qianzhu Lin Qingjie Sun Kaili Qin Han Jiang
(11) 2031050 (47) 06.09.2023 (22) 23.02.2022	(73) Qingdao Agricultural University (72) Liu Xiong Na Ji Zihan Xu Qingjie Sun Xuyan Dong Xuehai Wang Lei Dai	(74) ir. M.B. Plaggenborg
(54) Voersysteem alsmede veestal voorzien van het voersysteem	(74) ir. M.B. Plaggenborg	(51) A23P 10/40 A23N 12/02 A23N 12/06 A23N 12/08
(73) WEDA Holland B.V. (72) Richard Donkers (74) ir. G.J.M. Verhees	(51) A23K 10/12 A23K 10/30 A23K 20/142 A23K 20/174 A23K 50/30 A23K 20/20 A61K 36/71	(11) 2034699 (47) 07.09.2023 (22) 26.04.2023
(51) A01K 67/033 (11) 2031084 (47) 07.09.2023 (22) 25.02.2022	(73) Bob Holtermans Beheer B.V. (72) Bob Lodewijk Maria Holtermans (74) drs. A.A. Jilderda	(54) ORANGE PEEL CLEANING, DRYING AND CRUSHING PRODUCTION LINE
(54) Inrichting voor het kweken van insectenlarven	(51) A23L 3/37 C07K 1/14 C12P 21/06	(73) Hangzhou Vocational & Technical College (72) Minyu Zhi Ying Liu Rui Wang Ping Tang Xianjing Hu Zijun Ye Leqin Ke Da He
(73) Henderikus Potze (72) Henderikus Potze (74) dr. ir. G.J.C. Verdijck c.s.	(11) 2031078 (47) 06.09.2023 (22) 24.02.2022	(74) drs. C.M.A. Quintelier
(51) A01M 1/18 A01M 1/14 A01G 13/10	(54) FEED ADDITIVE CONTAINING TROLLIUS CHINENSIS BUNGE AND FEED	(51) A61B 3/00 H04M 1/72409 G16H 20/10
(11) 2031093 (47) 07.09.2023 (22) 28.02.2022	(73) Agricultural Biotechnology Research Center, NingXia Academy of Agricultural and Forestry Sciences (Ningxia Key Laboratory of Agricultural Biotechnology)	(11) 2030493 (47) 07.09.2023 (22) 10.01.2022
(54) INRICHTING VOOR HET VANGEN VAN EIKENPROCEESSIERUPSEN EN WERKWIJZE DAARVOOR	(72) Yuchao Chen Shenghu Guo Yongxing Zhu Yajing Guan Xiaoyan Gan Li Tian	(54) Desktop device for monitoring eye health (73) Mónica Debat Tapias (72) Mónica Debat Tapias (74) dr. G. Visser-Luirink
(73) Henderikus Potze (72) Henderikus Potze (74) dr. ir. G.J.C. Verdijck c.s.	(74) ir. M.B. Plaggenborg	(31) U202130038 (32) 12.01.2021 (33) Spain
(51) A01N 51/00 A01N 53/14 A01N 63/14 A01P 7/02	(51) A23L 3/37 C07K 1/14 C12P 21/06	(51) A61B 3/11
(11) 2031052 (47) 06.09.2023 (22) 23.02.2022	(11) 2031099 (47) 07.09.2023 (22) 28.02.2022	(11) 2031115 (47) 07.09.2023 (22) 01.03.2022
(54) METHOD FOR CONTROLLING PHENACOCOCCUS SOLENOPSIS TINSLEY BY COMBINING TRUNK INJECTION AND PARASITIC WASP	(54) HYDROLYSATE WITH ANTIFREEZE ACTIVITY, PREPARED FROM CARP SCALES , ANTIFREEZE AGENT AND APPLICATION THEREOF	(54) Method and system for determining a pupillary distance for a person.
(73) Zhejiang Academy of Agricultural Sciences	(73) Hainan Tropical Ocean University	(73) Easee Health B.V. (72) Robert Pieter Leendert Wisse Fehim Ismailov Jouke-Thiemo Waleson
(72) Mingjiang Li Juan Zhang Jun Huang Yayuan Tang Kaiyuan Zhu	(72) Yaqin Hu Yubin Ying Lingping Hu Jiayin Huang Gaoshang Li Zhiheng Hu Jiaying Zhou Jialin Liu	(74) ir. A. Blokland c.s.
(74) ir. W.J.J.M. Kempes	(74) ir. M.B. Plaggenborg	(51) A61B 5/00 A61B 5/11
(51) A21C 3/02 (11) 2031055 (47) 06.09.2023 (22) 23.02.2022	(74) ir. M.B. Plaggenborg	(11) 2031061 (47) 06.09.2023 (22) 24.02.2022
(54) Device, dough line and method for rolling dough	(51) A23L 29/206 A23L 33/21	(54) Multiple algorithms for controlling a cueing device. (73) Cue2Walk International B.V.
(73) Radie B.V. (72) Johannes Josephus Antonius van Blokland		

- (72) Alexander Leopold Marie Minnoye  
Martijn van der Ent  
Floor Waardenburg
- (74) ir. J.C. Volmer c.s.
- 
- (51) A61B 5/00  
A61B 5/11
- (11) 2031060  
(47) 06.09.2023  
(22) 24.02.2022
- (54) Cueing device with self-activation.
- (73) Cue2Walk International B.V.
- (72) Alexander Leopold Marie Minnoye  
Floor Waardenburg  
Martijn van der Ent
- (74) ir. J.C. Volmer c.s.
- 
- (51) A61B 5/11  
A45F 5/02  
A61B 5/00  
A61H 3/00
- (11) 2031062  
(47) 11.09.2023  
(22) 24.02.2022
- (54) Wearable cueing device with knee strap.
- (73) Cue2Walk International B.V.
- (72) Floor Waardenburg  
Alexander Leopold Marie Minnoye  
Martijn van der Ent
- (74) ir. J.C. Volmer c.s.
- 
- (51) A61B 8/00  
A61B 8/08
- (11) 2031149  
(47) 11.09.2023  
(22) 03.03.2022
- (54) Method and system for transcranial ultrasound imaging (TUI)
- (73) TECHNISCHE UNIVERSITEIT DELFT
- (72) Moein Mozaffarzadeh  
Nicolaas de Jong  
Guillaume Gérard Joseph Renaud  
Martin Daniël Verweij
- (74) dr. R.C. van Duijvenbode c.s.
- 
- (51) A61B 17/30  
A61B 17/29  
A61F 9/007
- (11) 2031086  
(47) 07.09.2023  
(22) 25.02.2022
- (54) An ophthalmic surgery instrument, an add-on module, methods of assembling and de-assembling an ophthalmic surgery instrument
- (73) D.O.R.C. Dutch Ophthalmic Research Center (International) B.V.
- (72) Nadieh Bergwerf  
Martinus Christianus Gähler  
John Peter Kuntz  
Marta Scali
- (74) ir. H.A. Witmans c.s.
- 
- (51) A61K 31/16  
A61K 31/165  
A61K 31/353  
A61P 9/14  
A61P 13/12  
A61P 43/00
- (11) 2031091  
(47) 07.09.2023  
(22) 28.02.2022
- (54) CHROMANOL COMPOUNDS FOR TREATMENT OR PROPHYLAXIS OF AGEING AND AGEING-ASSOCIATED DISORDERS
- (73) Sulfateq B.V.
- (72) Daniël Henri Swart  
Adrianus Cornelis van der Graaf  
Robert Henk Henning  
Guido Krenning
- (74) drs. W.H.P. Derks
- 
- (51) A61K 31/513  
A61P 1/16  
C07D 405/14
- (11) 2034240  
(47) 07.09.2023  
(22) 01.03.2023
- (54) KIND OF ALKALOID COMPOUND AND ITS APPLICATION
- (73) Beijing Technology and Business University  
Bio-tea Co.Ltd.of Shaanxi Biotech group
- (72) Yan Fu  
Nasi Ai  
Tong Gao  
Wei Dai  
Fuhang Song  
Kai Zhang  
Xiang Liu  
Honghua Li
- (74) ir. M.B. Plaggenborg
- 
- (31) 202211156412.5  
(32) 07.09.2022  
(33) China
- 
- (51) A61K 31/525  
A61K 31/4164  
A61K 38/17  
A61K 47/42  
A61K 31/51  
A61P 15/00
- (11) 2031109  
(47) 07.09.2023  
(22) 28.02.2022
- (54) FN-RICH MEDICINE FOR NON-THERAPEUTIC CERVICAL EROSION GYNECOPATHY AND PREPARATION METHOD THEREOF
- (73) Zhengzhou Railway Vocational & Technical College
- (72) Yanqi Lu  
Zeyue Zhao  
Limin Zhou  
Baiqiang Zhai  
Xilan Xu
- (74) ir. M.B. Plaggenborg
- 
- (51) A61K 31/58  
A61P 1/00  
A61K 31/56  
A61P 9/10  
A61P 31/12  
A61P 35/00  
C07J 1/00
- (11) 2031175  
(47) 11.09.2023  
(22) 07.03.2022
- (54) DHCR24 INHIBITORY COMPOUNDS
- (73) Academisch Ziekenhuis Leiden (h.o.d.n. LUMC)
- (72) Franz Bracher

Christoph Anton Müller  
Patrick Cornelis Nicolaas Rensen  
Martin Andreas Giera

(74) dr. A. Krebs

(51) A61K 38/17

A61K 48/00

A61P 35/00

C12N 15/86

A61P 1/16

(11) 2031110

(47) 07.09.2023

(22) 28.02.2022

(54) RECOMBINANT ADENO-ASSOCIATED

VIRUS VECTOR, RECOMBINANT

ADENO-ASSOCIATED VIRUS AAV8-

PD1 AND USE THEREOF

(73) The First Affiliated Hospital of Hainan

Medical University

(72) Shaojiang Zheng

Yanda Lu

Yun Chen

Siru Liu

Yao Yao

Dongju Feng

Zewei Zhou

Xiaodian Zhang

(74) ir. M.B. Plaggenborg

(51) A61K 39/395

A61P 37/02

C07K 16/18

(11) 2031107

(47) 07.09.2023

(22) 28.02.2022

(54) MEDICAL USE OF ANTI-RIBOSOMAL

PROTEIN SA ANTIBODY IN

IMMUNOREGULATION

(73) Jilin University

(72) Tong Wu

Hexiang Jiang

Liancheng Lei

Rining Zhu

Siyu Lei

Xiaoguang Zhang

Hongtao Liu

Ziheng Li

(74) ir. M.B. Plaggenborg

(51) A61L 2/10

A61L 2/22

B65B 55/02

A61L 2/14

(11) 2031108

(47) 07.09.2023

(22) 28.02.2022

(54) DISINFECTION SYSTEM FOR NOVEL

CORONAVIRUS OF FOOD OUTER

PACKAGE IN COLD-CHAIN LOGISTICS

(73) ZHENGZHOU RAILWAY VOCATIONAL

& TECHNICAL COLLEGE

Heming (Shanghai) Environmental

Technology Co., Ltd.

(72) Ailing Wen

Baiqiang Zhai

Xiaoli Zhao

Qiuping Pan

Xiaoxia Zhang

(74) ir. M.B. Plaggenborg

(51) A61L 24/00

A61L 24/06

A61L 24/08	Hongyu Si	(72) Jacob Hendrik van der Vegte
A61L 24/10	Jianmei Wang	Ireneus Alexis Wilhelmus Zaal
(11) 2031075	Chengmin Chen	(74) ir. H.Th. van den Heuvel c.s.
(47) 06.09.2023	Pei Zhao	(51) B29C 64/20
(22) 24.02.2022	Jianchun Wang	B33Y 30/00
(54) CORE-SHELL EMBOLIZATION	(74) ir. M.B. Plaggenborg	B33Y 40/00
MICROSPHERE PRELOADED WITH	(51) B01J 20/20	B29C 64/209
CHEMOTHERAPEUTIC DRUG AND	(11) 2031154	B29C 64/245
PREPARATION METHOD THEREOF	(47) 08.09.2023	B29C 64/295
(73) Energy Research Institute of Shandong	(22) 03.03.2022	B29C 64/321
Academy of Sciences	(54) MODIFIED STRAW BIOCHAR AND	B29C 64/393
(72) Chengmin Chen	PREPARATION METHOD AND	(11) 2031105
Yan Li	APPLICATION THEREOF	(47) 07.09.2023
Jianchun Wang	(73) Hohai University	(22) 28.02.2022
Jianmei Wang	(72) Wenshuo Zhang	(54) SCREW EXTRUSION TYPE 3D
Pei Zhao	Yanyu Wang	PRINTER WITH RETRACTION
(74) ir. M.B. Plaggenborg	Xiaohou Shao	FUNCTION
(51) A61P 31/16	Lina Chen	(73) Zhejiang Normal University
C07K 16/10	Haiming Wang	(72) Zhonglue Hu
A61K 47/69	Wenbo Wu	Sisi Wang
A61K 39/00	Guomian Guo	Xiping Li
C07K 19/00	(74) ir. M.B. Plaggenborg	Jiawen He
(11) 2034221	(51) B05B 11/04	Bin Wang
(47) 11.09.2023	B05C 17/035	(74) ir. M.B. Plaggenborg
(22) 24.02.2023	B05C 17/03	(51) B30B 9/30
(54) ANTI-H1N1 SUBTYPE INFLUENZA	(11) 2033388	B65F 1/14
VIRUS NANOPARTICLES BASED	(47) 13.09.2023	B65F 1/16
ON SELF-ASSEMBLED FERRITIN,	(22) 24.10.2022	(11) 2031069
PREPARATION METHOD AND	(54) A CONTAINER FOR HOLDING AND	(47) 06.09.2023
APPLICATION THEREOF	DISPENSING A LIQUID COLOUR	(22) 24.02.2022
(73) The Second Hospital of Nanjing (Nanjing	MATERIAL, IN PARTICULAR A PAINT	(54) Litter collection and compactor device
Hospital affiliated to Nanjing University of	(73) INTERGAMMA B.V.	(73) VConsyst Participaties B.V.
Traditional Chinese Medicine)	(72) Joost Poot	(72) Roy Johannes Gijsbertus Paschedag
(72) Mingxuan Wang	Andor Klomp	(74) ir. F.A. Geurts c.s.
Xuehua Wan	(74) ir. M.B. Plaggenborg	(51) B60C 29/06
Junwei Li	(31) PCT/EP2021/080227	(11) 2031063
Yan Wan	(32) 31.10.2021	(47) 06.09.2023
(74) dr. T. Wittop Koning PhD	(33) Netherlands	(22) 24.02.2022
(31) 202210548788.4	(51) B24B 41/02	(54) a valve stem and system and sealant
(32) 20.05.2022	B24B 41/00	application tool for a tubeless tyre setup.
(33) China	B24B 27/00	(73) Greenpath B.V.
(51) A61P 35/02	B24B 41/06	(72) Eugène Antoine Adriaan Herben
C07K 14/725	B24B 29/06	Gertjan van Ginderen
C07K 16/30	B24B 19/26	(74) ir. A. Blokland c.s.
(11) 2031118	(11) 2031166	(51) B60L 13/06
(47) 07.09.2023	(47) 08.09.2023	(11) 2031146
(22) 01.03.2022	(22) 04.03.2022	(47) 11.09.2023
(54) T CELL RECEPTORS DIRECTED	(54) ASSEMBLY-LINE TYPE AUTOMATIC	(22) 03.03.2022
AGAINST TRANSCRIPTION FACTOR	GRINDING DEVICE	(54) Actuator arrangement comprising
WT1 AND USES THEREOF	(73) Nobot Intelligent Equipment (Shandong)	permanent magnets
(73) Academisch Ziekenhuis Leiden (h.o.d.n.	Co., Ltd.	(73) Technische Universiteit Eindhoven
LUMC)	(72) Xinhua Yan	(72) David Christian Johannes Krop
(72) J.H. Frederik Falkenburg	Shoule Zhen	(74) ir. A. Blokland c.s.
Mirjam H.M. Heemskerk	Liwei Fu	(51) B60L 53/53
(74) dr. A. Krebs	Jianchao Wu	B60L 53/31
(51) B01J 19/00	Qun Sun	B60L 53/14
C08J 3/075	Dongjie Zhao	H02M 1/00
C08L 29/04	(74) ir. W.J.J.M. Kempes	H02J 7/00
(11) 2031074	(51) B27J 1/00	(11) 2031027
(47) 06.09.2023	(11) 2031094	(47) 06.09.2023
(22) 24.02.2022	(47) 07.09.2023	(22) 22.02.2022
(54) METHOD FOR RAPIDLY PREPARING	(22) 28.02.2022	(54) Reduced dissipation converter for
MONODISPERSE POLYVINYL	(54) Method of mechanically processing	battery-buffered fast-charging of electric
ALCOHOL (PVA) MICROSPHERES AT	bamboo splits obtained from bamboo	vehicles.
ROOM TEMPERATURE	culm; a bamboo product obtained using	(73) Technische Universiteit Eindhoven
(73) Energy Research Institute of Shandong	such a method; and a processing system	(72) Dongsheng Yang
Academy of Sciences	for processing bamboo splits	(74) ir. A. Blokland c.s.
(72) Yan Li	(73) Moso International B.V.	

(51) B62B 9/10 B62B 7/14	(72) Daniel Perea Romero	Xianliang Wu
(11) 2033423	(74) dr. R.C. van Duijvenbode c.s.	(74) dr. T. Wittop Koning PhD
(47) 13.09.2023	(31) U202132457	(31) 202111246150.7
(22) 31.10.2022	(32) 14.12.2021	(32) 26.10.2021
(54) Seat recliner system, reclinable seat and related apparatus	(33) Spain	(33) China
(73) Royalty Bugaboo GmbH	(51) B65G 47/90 B65G 47/08	(51) C08J 3/00 C08L 3/02
(72) Joris Jeroen Schubert	(11) 2031169	(11) 2031143
(74) ir. W.J.J.M. Kempes	(47) 11.09.2023	(47) 08.09.2023
(51) B62K 3/00 B62K 21/10 A63C 17/00 A63C 17/01	(22) 05.03.2022	(22) 02.03.2022
(11) 2031139	(54) Inrichting voor het samenstellen van producten	(54) ANNEALING TREATMENT BASED MODIFIED STARCH AND PREPARATION METHOD AND APPLICATION THEREOF
(47) 08.09.2023	(73) Gearbox BV.	(73) Qingdao Agricultural University
(22) 02.03.2022	(72) Johan Clemens Carel Kreeft	(72) Xiaoyu Chen
(54) Personal transportation vehicle, such as a scooter	(74) ir. G.J.M. Verhees	Lin Gao
(73) Worldwide Trading Services International BVBA	(51) B66C 1/12	Yang Qin
(72) Floris Maarten Wiegierinck Gerardus Johannes Christiaan Blom	(11) 2031064	Yanfei Wang
(74) ir. H.A. Witmans c.s.	(47) 06.09.2023	Qingjie Sun
(51) B62K 21/16 B62K 21/24	(22) 24.02.2022	Na Ji
(11) 2033479	(54) A Protective Sleeve For A Load Carrying Sling	Man Li
(47) 13.09.2023	(73) Enduro Softslings B.V.	Liu Xiong
(22) 08.11.2022	(72) Sytse van der Molen	(74) ir. M.B. Plaggenborg
(54) OPENABLE STEM	(74) dr. R.C. van Duijvenbode c.s.	(51) C08L 17/00 C08K 5/00 C08L 95/00 C08J 11/10
(73) HSIN LUNG ACCESSORIES CO., LTD.	(51) B66C 1/32 B66C 1/44	(11) 2031396
(72) Xue-Sen Liao	(11) 2031095	(47) 07.09.2023
(74) ir. J.H. de Hoog	(47) 07.09.2023	(22) 24.03.2022
(31) 110213284	(22) 28.02.2022	(54) DEVULCANIZED RUBBER POWDER, RUBBER-ASPHALT COMPOSITE, AND PREPARATION METHOD THEREOF
(32) 10.11.2021	(54) Hoisting device	(73) Guangxi Jiaoke New Material Technology Co., Ltd.
(33) Taiwan, Chinese Taipei	(73) Ashley Albertus Jacobus Gertrude Maria van Dieten	Guangxi Transportation Science and Technology Group Co., Ltd.
(51) B63B 83/00 B63B 83/30 B63B 1/38	(72) Ashley Albertus Jacobus Gertrude Maria van Dieten	(72) Jiasheng Lin Haitao Yuan Jinye Zhu Honggang Zhang Yehao Yin Wei Wang Xiaolei Wang Qiumin Wang Hua Tan Hongbo Zhang Jizong Tan Baolin Xiong Dongliang Kuang
(11) 2030857	(74) ir. F.A. Geurts c.s.	(74) ir. M.B. Plaggenborg
(47) 07.09.2023	(51) B82Y 15/00 B82Y 40/00 G01L 1/22	(31) 202110330068.6
(22) 09.02.2022	(11) 2031141	(32) 29.03.2021
(54) A method for providing a hull of a vessel with bubble generators	(47) 08.09.2023	(33) China
(73) Alfa Laval Rotterdam B.V.	(22) 02.03.2022	(51) C11B 1/02 A23D 9/02 A23K 10/14 A23L 33/115 A23L 3/3508 A61P 31/00
(72) Pieter Kapteijn	(54) NANO PRESSURE SWITCH AND PREPARATION METHOD THEREOF	(11) 2031036
(74) ir. W.J.J.M. Kempes	(73) Henan Institute of Product Quality Supervision and Inspection	(47) 06.09.2023
(51) B65D 33/04 B65D 33/28	(72) Daoyuan Yang	(22) 22.02.2022
(11) 2029463	Bo Feng	(54) INSECT-DERIVED, ENZYME-MODIFIED LIPID COMPOSITION
(47) 11.09.2023	Huiyu Yuan	(73) Protix B.V.
(22) 19.10.2021	Ke Yin	(72) Monika Dalim
(54) Paper sack.	(74) ir. M.B. Plaggenborg	
(73) INNOVATION PACKMAKERS, S.L.	(51) C05G 3/80 C09K 17/40	
(72) Vicente Antonio Lozano Ochando Francisco Javier y Cabello Silva	(11) 2032519	
(74) ir. A. Blokland c.s.	(47) 11.09.2023	
(31) U 202032270	(22) 16.07.2022	
(32) 20.10.2020	(54) Method for Preparing Soil Conditioner by Utilizing Plateau Lake Sediments	
(33) Spain	(73) Guizhou University	
(51) B65D 71/42 B65D 71/72	(72) Zhenming Zhang	
(11) 2033718	Jiachun Zhang	
(47) 07.09.2023	Xianping Zeng	
(22) 14.12.2022	Guiting Mu	
(54) Draagsysteem voor drankblikjes	Wenmin Luo	
(73) HINOJOSA PACKAGING GROUP, S.L.	Hongzao He	
	Yingying Liu	

Aman Paul	Zhen Wang	(74) ir. A.E. Dekker-Garms
(74) dr. R.C. van Duijvenbode c.s.	Yu Zhang	(51) D01F 6/62
(51) C12N 15/29	Hui Zhang	D01F 8/14
A01H 5/02	Jia Guo	D01D 5/30
A01H 6/62	(74) dr. T. Wittop Koning PhD	D01F 1/10
C07K 14/415	(51) C12Q 1/689	(11) 2031172
C12N 15/82	(11) 2034045	(47) 11.09.2023
(11) 2031044	(47) 11.09.2023	(22) 07.03.2022
(47) 06.09.2023	(22) 30.01.2023	(54) Biodegradable filament and method of producing biodegradable filament
(22) 23.02.2022	(54) PRIMER GROUP, KIT AND METHOD FOR IDENTIFYING BRUCELLA EPIDEMIC STRAIN IN XINJIANG AND S2 STRAIN AND APPLICATION THEREOF	(73) SENBIS GROUP B.V.
(54) REGULATORY GENE FOR FLORAL ORGAN DEVELOPMENT OF CHINESE CYMBIDIUM, AND ENCODED PROTEIN AND USE THEREOF	(73) Shihezi University	(72) Bastiaan Krins
(73) Environmental horticulture Research Institute of Guangdong Academy of Agricultural Sciences	(72) Yang Liu	(74) ir. H.Th. van den Heuvel c.s.
(72) Fengxi Yang	Xia Zhou	(51) E01C 3/04
Genfa Zhu	Liangbo Liu	E01C 3/06
Yonglu Wei	Jing Zhang	(11) 2031135
Chuoqiao Lu	Hui Zhang	(47) 08.09.2023
Lingyuan Peng	Zhen Wang	(22) 02.03.2022
(74) ir. M.B. Plaggenborg	Yong Wang	(54) ANTI-SETTLEMENT CONSTRUCTION METHOD FOR HIGHWAY
(51) C12P 7/22	Jia Guo	(73) NANCHANG RAILWAY ENGINEERING CO., LTD. OF CHINA RAILWAY 24TH BUREAU GROUP
C12N 9/10	Xingmei Deng	(72) Ming Huang
(11) 2031273	Yu Zhang	Xianquan Tang
(47) 11.09.2023	(74) dr. T. Wittop Koning PhD	Xin Zhao
(22) 14.03.2022	(51) C14C 1/06	Xu Wu
(54) BIOPRODUCTION OF BAKUCHIOL	(11) 2031083	Hongyue Sun
(73) Sestina Bio, LLC	(47) 07.09.2023	Changhong Liu
(72) Amanda Reider Apel	(22) 25.02.2022	Qian Huang
Abhinav Kumar	(54) Process for liming of hides, skins or pelts	Chengjing Cui
(74) dr. ir. G.J.C. Verdijck c.s.	(73) Stahl International B.V.	Zhonghua Wu
(31) 63/316,855	(72) Andreas Gerardus Josephus Maria van der Ham	Wen Gao
(32) 04.03.2022	(74) ir. H.A. Witmans c.s.	Xiangdong Liang
(33) United States of America	(51) C25B 1/01	Chulan Hu
(51) C12Q 1/02	C01B 6/11	Fengjiao Peng
B82Y 5/00	C25B 1/04	Libo Gao
G01N 15/10	C25B 1/16	Chunhai Cai
G01N 29/02	C25B 1/20	Mingzhou Xie
G01N 33/543	C25B 9/19	Heng Zhou
(11) 2031130	C01B 3/06	Kai Mei
(47) 11.09.2023	C25B 1/22	Dahuan Jiang
(22) 02.03.2022	C25B 15/08	Pengfei Jing
(54) Clinical sample preparation and handling for activity monitoring of single living micro- and nano-organism	C25C 3/02	(74) ir. W.J.J.M. Kempes
(73) Technische Universiteit Delft	(11) 2031153	(51) E01C 13/08
(72) Farbod Alijani	(47) 11.09.2023	E04H 17/16
Aleksandre Japaridze	(22) 03.03.2022	(11) 2034029
Ireneusz Eugeniusz Roslon	(54) Method of Producing a Metal Borohydride or Boric Acid from Metal Metaborate	(47) 11.09.2023
Peter Gerard Steeneken	(73) H2FUEL Works B.V.	(22) 27.01.2023
(74) drs. P.A. van Essen c.s.	(72) Lars Jacob Cornelis van der Zee	(54) AFSCHIEDINGSINRICHTING VOOR PLAATSING RONDOM EEN KUNSTGRASVELD OMVATTENDE INSTROOIMATERIAAL
(51) C12Q 1/689	Kaj Melvin van Vliet	(73) SKOR B.V.
(11) 2034043	Jacob Christiaan Slootweg	(72) Marcel Schorn
(47) 11.09.2023	(51) C25B 9/07	Alex Zuidberg
(22) 30.01.2023	C25B 15/033	(74) drs. C.H. Mink-Lindenbarg
(54) PRIMER GROUP, KIT AND METHOD FOR IDENTIFYING BRUCELLA EPIDEMIC STRAIN AND M5 STRAIN AND APPLICATION THEREOF	C25B 1/044	(51) E02D 7/18
(73) Shihezi University	C25B 1/50	B66C 1/10
(72) Yang Liu	(11) 2031152	B66C 1/56
Yong Wang	(47) 08.09.2023	B66C 1/62
Xia Zhou	(22) 03.03.2022	(11) 2033554
Liangbo Liu	(54) Method and device for producing hydrogen from water	(47) 07.09.2023
Jing Zhang	(73) Water Energy Patent B.V.	(22) 17.11.2022
Xingmei Deng	(72) Valeriy Anatol'evic Guzyeyev	(54) VIBRATION DEVICE AND METHOD FOR INSERTING INTO THE GROUND OR REMOVING FROM THE GROUND
	Jan Parlevliet	

A FOUNDATION ELEMENT WITH ELECTRIC MOTOR	Baohua Feng	E21B 47/12
(73) Cape Holland Holding B.V.	Xuecheng Wang	E21B 15/00
(72) Hendrik Cejus de Roo	Yuzhong Zhai	E21B 21/015
Laurens de Neef	Lisheng Bi	E21D 20/00
(74) dr. ir. G.J.C. Verdijck c.s.	(74) ir. C.G.C. Veldman-Dijkers	(11) 2031051
(31) 2029799	(31) CN202123256524.1	(47) 06.09.2023
(32) 17.11.2021	(32) 23.12.2021	(22) 23.02.2022
(33) Netherlands	(33) China	(54) BOLT MOUNTING DEVICE AND MOUNTING METHOD
(51) E02D 7/18	(51) E04C 2/52	(73) NANCHANG RAILWAY ENGINEERING CO., LTD. OF CHINA RAILWAY 24TH BUREAU GROUP
B66C 1/56	(11) 1044334	(72) Ming Huang
B66C 1/62	(47) 11.09.2023	Changhong Liu
B66C 1/10	(22) 20.05.2022	Zhonghua Wu
(11) 2033553	(54) Binnenwandelement omvattende een basislaag voorzien van deklagen, waarbij de basislaag verticale halfopen leidingsleuven omvat die door de deklagen wordt afgedekt	Pengfei Jing
(47) 07.09.2023	(73) Brouwer Units en Wagenbouw B.V	Kai Mei
(22) 17.11.2022	(72) John Folkers	Xiangdong Liang
(54) VIBRATION DEVICE AND METHOD FOR INSERTING INTO THE GROUND OR REMOVING FROM THE GROUND	(31) 1044233	Xin Zhao
A FOUNDATION ELEMENT WITH BASE FRAME	(32) 07.12.2021	Chunhai Cai
(73) Cape Holland Holding B.V.	(33) Netherlands	Heng Zhou
(72) Hendrik Cejus de Roo	(51) E04G 21/14	Dahuan Jiang
Laurens de Neef	E04C 2/38	Wen Gao
(74) dr. ir. G.J.C. Verdijck c.s.	(11) 1044335	Libo Gao
(31) 2029798	(47) 07.09.2023	Xianquan Tang
(32) 17.11.2021	(22) 20.05.2022	Chengjing Cui
(33) Netherlands	(54) Wandelement omvattende een basislaag voorzien van deklagen, met een hol topprofiel als hijsvoorziening voor het manipuleren van het wandelement	Mingzhou Xie
(51) E02F 5/10	(73) Brouwer Units en Wagenbouw B.V.	Fengjiao Peng
(11) 2030849	(72) John Folkers	Changchun Tang
(47) 07.09.2023	(31) 1044232	(74) ir. W.J.J.M. Kempes
(22) 08.02.2022	(32) 07.12.2021	(51) E21B 47/117
(54) UNDERWATER PLOUGH AND METHOD OF OPERATING AN UNDERWATER PLOUGH	(33) Netherlands	G01M 3/32
(73) Royal IHC Limited	(51) E04G 23/02	E21F 7/00
(72) Jonathan Ralph Manchester	E21D 11/38	(11) 2031041
(74) dr. A. Krebs	(11) 2033527	(47) 06.09.2023
(51) E03B 3/28	(47) 11.09.2023	(22) 22.02.2022
B01D 5/00	(22) 14.11.2022	(54) DEVICE FOR TESTING AIRTIGHTNESS OF HOLE SEALING MATERIAL AND USE METHOD
(11) 2031795	(54) FAST TUNNEL LEAKAGE STOPPAGE CONSTRUCTION DEVICE	(73) ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY
(47) 11.09.2023	(73) Nanjing Kangtai Construction Grouting Technology Co., Ltd.	(72) Sheng Xue
(22) 08.05.2022	(72) Yifei Zhang	Xin Guo
(54) Air condensation water device based on nanomaterials	Tianfei Liu	Yaobin Li
(73) Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences	Huiguo Chen	Chunshan Zheng
(72) Xiangxiang Yu	Junchuan Li	(74) ir. M.B. Plaggenborg
Haifeng Wang	Wei Liu	(51) F02C 3/32
Jinglong Fan	Jianxing Wang	F02C 7/18
Zhengzhong Jin	Sensen Chen	F02K 1/48
(74) dr. T. Wittop Koning PhD	Jing Wen	(11) 2032035
(31) 202111231640.X	Heqing Tang	(47) 11.09.2023
(32) 22.10.2021	Xiang Wang	(22) 31.05.2022
(33) China	Jinfeng Zhang	(54) MARINE GAS TURBINE WITH SPECIAL-SHAPED LOBE EJECTOR MIXER
(51) E03D 11/08	Xiangrong Zhu	(73) HARBIN ENGINEERING UNIVERSITY
(11) 2033679	Zhong Wen	(72) Yue Yin
(47) 11.09.2023	Youcai Zeng	Limin Zhang
(22) 07.12.2022	Yue Wen	Shaowei Zhou
(54) Rotary Flushing Type Ceramic Body and Pedestal Pan	(74) ir. M.B. Plaggenborg	Yigang Luan
(73) Huida Sanitary Ware Co., Ltd.	(31) 202111422962.2	Hao Fu
(72) Jinlong Wang	(32) 26.11.2021	Yanchen Hu
Yanqing Wang	(33) China	Hongfei Ma
Yongming Zhang	(51) E21B 10/36	Zhongyi Wang
Tao Wang	E21C 35/22	Haiou Sun
Zichun Song	E21B 10/38	(74) ir. M.B. Plaggenborg
	E21B 10/44	(31) 202110799087.3
		(32) 15.07.2021



(33) China	(33) Belgium	(54) COLD-CHAIN LOGISTICS COLD ACCUMULATION SYSTEM
(51) F04D 7/02	Netherlands	(73) ZHENGZHOU RAILWAY VOCATIONAL & TECHNICAL COLLEGE
F04D 29/22	European Patent Office (EPO)	(72) Huiling Wang
F04D 1/00	(51) F24F 13/08	Baiqiang Zhai
(11) 1044267	(11) 2027340	Longteng Li
(47) 06.09.2023	(47) 11.09.2023	Yang Geng
(22) 22.02.2022	(22) 18.01.2021	Hongtao Wang
(54) CRYOGENIC PUMP ASSEMBLY	(54) VALVE ASSEMBLY FOR AN AIR DUCT IN A VENTILATION SYSTEM	(74) ir. M.B. Plaggenborg
(73) Marflex Holding B.V.	(73) Prado Europe bv	(51) G01B 7/16
(72) Engbert Ane Mulder	(72) Thibault Louis Renson	G01C 5/00
Gerardus Johannes Stefanus van der Gulik	(74) ir. J.P.E. Brants	(11) 2031038
Gerrit Hans Hofmeijer	(31) 2024689	(47) 06.09.2023
(51) F16B 37/04	20152161.4	(22) 22.02.2022
(11) 2031082	(32) 17.01.2020	(54) GEOTECHNICAL ENGINEERING SLIP DEFORMATION MONITORING AND EARLY WARNING SYSTEM
(47) 07.09.2023	16.01.2020	(73) Weifang Runyike New Material Co., Ltd.
(22) 25.02.2022	(33) Netherlands	(72) Haiyan Zhao
(54) Anchoring assembly, nut holder, combination of an anchoring assembly and a structural element, method of mounting an anchoring assembly in a thin-walled structural element	European Patent Office (EPO)	(74) ir. M.B. Plaggenborg
(73) J. van Walraven Holding B.V.	(51) F24F 13/10	(51) G01H 17/00
(72) Marek Juzak	(11) 2027341	G01R 31/34
Frank Nijdam	(47) 11.09.2023	(11) 2031030
(74) ir. J.C. Volmer c.s.	(22) 18.01.2021	(47) 06.09.2023
(51) F16M 11/04	(54) Klepsamenstel voor een luchtkanaal in of aan een ventilatiesysteem	(22) 22.02.2022
F16M 11/16	(73) Prado Europe bv	(54) APPARATUS FOR TESTING NOISE, VIBRATION, AND OTHER RELEVANT PERFORMANCES OF SMALL MOTOR FOR VEHICLE UNDER LOAD CONDITION
F16M 11/34	(72) Thibault Louis Renson	(73) China Automotive Engineering Research Institute Co., Ltd.
(11) 2031138	(74) ir. J.P.E. Brants	Shenzhen Vortex Technology Co., Ltd.
(47) 08.09.2023	(31) 2020/5691	(72) Peiran Li
(22) 02.03.2022	2024689	Hanjie Zeng
(54) Portable support stand comprising a vibration damper	20152161.4	(74) ir. W.J.J.M. Kempes
(73) Dovi Group B.V.	(32) 06.10.2020	(51) G01L 19/08
(72) Franciscus Adrianus Cornelis van Dongen	17.01.2020	G01L 19/12
(74) dr. ir. G.J.C. Verdijck c.s.	16.01.2020	(11) 2031163
(51) F21V 21/116	(33) Belgium	(47) 08.09.2023
F21S 8/08	Netherlands	(22) 04.03.2022
F21V 15/01	European Patent Office (EPO)	(54) WIRELESS STRESS MONITORING EARLY WARNING INSTRUMENT AND MONITORING EARLY WARNING METHOD
(11) 2031087	(51) F24H 1/10	(73) SHANDONG UNIVERSITY OF SCIENCE AND TECHNOLOGY
(47) 07.09.2023	(11) 2031081	(72) Tongbin Zhao
(22) 25.02.2022	(47) 07.09.2023	Liangke Xu
(54) IMPROVED LUMINAIRE HEAD FOR MOUNTING ON A POLE	(22) 25.02.2022	Yunliang Tan
(73) SCHREDER S.A.	(54) Een doorstroomverwarmer voor het opwarmen van een vloeibaar medium	Fenghai Yu
(72) Zoltán Janki	(73) AWIN B.V.	(74) ir. W.J.J.M. Kempes
Péter Budavári	(74) ir. B.J. 't Jong	(51) G01M 7/08
Csaba Horváth	(51) F24S 10/50	H01M 10/42
János Péter Szűgyi	F24S 10/75	G01M 17/007
(74) dr. ir. G.J.C. Verdijck c.s.	F24S 10/30	(11) 2030586
(51) F24F 13/078	H02S 40/44	(47) 11.09.2023
(11) 2027339	F24S 10/20	(22) 18.01.2022
(47) 13.09.2023	(11) 2031116	(54) Comprehensive safety test system and method of vehicle power battery box based on temperature control
(22) 18.01.2021	(47) 07.09.2023	(73) Jilin Institute of Chemical Technology
(54) In of aan een ventilatiekanaal voorzienbare elektrische inrichting	(22) 01.03.2022	(72) Zhongliang Tao
(73) Prado Europe bv	(54) Zonnepaneel ingericht voor geforceerde ventilatie, klimaatsysteem voor een gebouw, voorzien van een dergelijk zonnepaneel en werkwijze voor het opwekken van energie en/of het beheersen van het klimaat in een gebouw gebruik makend van een dergelijk zonnepaneel	Wenzhuo Zhao
(72) Thibault Louis Renson	(73) Jan Putman Beheer B.V.	(74) dr. T. Wittop Koning PhD
(74) ir. J.P.E. Brants	(72) Johannes Josephus Albertus Putman	(31) 202110465115.8
(31) 2020/5691	(74) ir. A. Blokland c.s.	(32) 28.04.2021
2024689	(51) F25D 11/00	
20152161.4	(11) 2031142	
(32) 06.10.2020	(47) 08.09.2023	
17.01.2020	(22) 02.03.2022	
16.01.2020		

(33) China	(54) SPATIALLY TRACKING MUSCLE ACTIVITY	(51) G06F 30/17 G06F 30/20 B66B 11/02 E01D 19/16
(51) G01S 19/03	(73) Microsoft Technology Licensing, LLC	(11) 2031002
(11) 2031155	(72) Aditha May Adams	(47) 11.09.2023
(47) 08.09.2023	Ryan Chang	(22) 17.02.2022
(22) 03.03.2022	Young Soo Kim	(54) MULTI-CYCLE CALCULATION METHOD FOR VIBRATION AND ENERGY OF AXIALLY MOVING ROPE EQUIPMENT
(54) VESSEL POSITION-CODING TERMINAL SYSTEM BASED ON BEIDOU NAVIGATION SATELLITE SYSTEM	Kelly A Ohm	(73) Hefei University of Technology
(73) EAST CHINA SEA FISHERIES RESEARCH INSTITUTE	Jazmine Hoyle	(72) Yi Liu
(72) Xin Sui	Michael Bohan	Yimin Lu
Weifeng Zhou	Timothy G Escolin	Enwei Chen
Tianfei Cheng	Spencer Lee Davis	Xueqian Ren
Zuli Wu	Scott D Schenone	Haozheng Wei
(74) ir. M.B. Plaggenborg	Eduardo Sonnino	Yuteng He
(51) G01V 1/30	(74) ir. J.C. Volmer c.s.	(74) ir. M.B. Plaggenborg
(11) 2031034	(51) G06F 9/50	(31) 202110930596.5
(47) 06.09.2023	(11) 2031106	(32) 13.08.2021
(22) 22.02.2022	(47) 07.09.2023	(33) China
(54) METHOD OF QUANTITATIVELY CHARACTERIZING ACTIVITY INTENSITY OF A GROWTH FAULT	(22) 28.02.2022	(51) G06F 30/20 B63B 21/00
(73) Institute of Geology and Geophysics, Chinese Academy of Sciences	(54) NETWORK DATA OFFLOADING METHOD AND DEVICE, AND COMPUTER STORAGE MEDIUM	(11) 2031067
(72) Shoudong Huo	(73) Qufu Normal University	(47) 06.09.2023
Liang Huang	(72) Guowei Zhang	(22) 24.02.2022
Taikun Shi	Yang Yang	(54) HYBRID BI-MODAL NON-GAUSSIAN RESPONSE AMPLITUDE PROBABILITY DISTRIBUTION MODEL BASED METHOD FOR ESTIMATING FATIGUE DAMAGE OF OFFSHORE STRUCTURE
Hai Xu	Maoli Wang	(73) Ocean University of China
Xiaofang Du	Xiaodong Zang	(72) Yixiang Zhao
Peng Hu	(74) ir. M.B. Plaggenborg	Shuqing Wang
Hongmei Lu	(51) G06F 16/51	Xiancang Song
Jun Gao	G06N 3/04	Wei Tao
Shengqiang Mu	G06N 3/08	Yuanzhi Guo
(74) ir. W.J.J.M. Kempes	G06F 16/532	Yuyao Hou
(51) G03F 7/20	G06F 16/55	(74) ir. W.J.J.M. Kempes
(11) 2031133	G06F 16/58	(51) G06F 40/40
(47) 11.09.2023	(11) 2031125	(11) 2031111
(22) 02.03.2022	(47) 07.09.2023	(47) 07.09.2023
(54) Method for imaging a mask layer with two imaging settings and associated imaging system	(22) 01.03.2022	(22) 28.02.2022
(73) XSYS PREPRESS N.V.	(54) TRAFFIC TARGET IMAGE RETRIEVAL METHOD AND APPARATUS BASED ON DEEP LEARNING, AND READABLE MEDIUM	(54) TRANSLATION METHOD, DEVICE, APPARATUS AND MEDIUM FOR SPANISH GEOGRAPHICAL NAMES
(72) Dirk Ludo Julien de Rauw	(73) Nanjing University of Science and Technology	(73) Chinese Academy of Surveying & Mapping
(74) dr. ir. G.J.C. Verdijck c.s.	(72) Yong Qi	(72) Xuejiao Yang
(51) G03F 7/20	Zhiming Xu	Xi Mao
H05G 2/00	(74) ir. M.B. Plaggenborg	Weijun Ma
(11) 2029105	(51) G06F 30/13	Jizhou Wang
(47) 11.09.2023	G06F 30/28	Wujun Gao
(22) 02.09.2021	G01N 17/00	Chuan Du
(54) EXTREME ULTRAVIOLET LIGHT GENERATION APPARATUS AND ELECTRONIC DEVICE MANUFACTURING METHOD	(11) 2031137	Zhangpeng Wang
(73) GIGAPHOTON INC.	(47) 08.09.2023	(74) ir. M.B. Plaggenborg
(72) Fumio Iwamoto	(22) 02.03.2022	(51) G06N 3/04
(74) ir. H.A. Witmans c.s.	(54) A RAPID PREDICTION METHOD AND SYSTEM FOR RIVERBANK COLLAPSE CONSIDERING THE INFLUENCE OF VEGETATION ROOTS	G06N 3/08
(31) 2020-166890	(73) Nanjing Hydraulic Research Institute	(11) 2031938
(32) 01.10.2020	(72) Wenlian Gao	(47) 08.09.2023
(33) Japan	Qiang Ying	(22) 19.05.2022
(51) G06F 3/01	Hongmei Zhang	(54) A computer-implemented method of synaptic consolidation and experience replay in a dual memory architecture
G06F 3/023	Zhuoying Cang	(73) NavInfo Europe B.V.
G06F 3/04886	Jun Yang	(72) Elahe Arani
A61B 5/397	Changying Chen	Fahad Sarfraz
(11) 2031070	Dongdong Jia	Bahram Zonooz
(47) 06.09.2023	Lei Wu	
(22) 24.02.2022	Youzhi Hao	
	Zhongbin Sun	
	Xingnong Zhang	
	(74) ir. W.J.J.M. Kempes	

(74) mr. ir. J. van Breda c.s.	Lu Wang	H01M 10/04
(31) 17/686,263	Jian Sun	H01M 10/0569
(32) 03.03.2022	Weicheng Shen	H01M 10/058
(33) United States of America	Liancai Ma	(11) 2031071
(51) G06N 3/04	Xu Zhang	(47) 06.09.2023
G06N 3/08	Jianmei Zhang	(22) 24.02.2022
(11) 2031335	Jiayu Fu	(54) PRE-LOADED PROTECTED ANODE, BATTERY AND MANUFACTURING METHOD
(47) 08.09.2023	Chang'an He	(73) LionVolt B.V.
(22) 18.03.2022	Jianhua Sun	(72) Bihag Anothumakkool
(54) Similarity guided progressive decoder fusion in neural networks deep learning	Kai Guo	Sathiyaraj Kandhasamy
(73) NavInfo Europe B.V.	(74) dr. A.V. Huygens	Sandeep Unnikrishnan
(72) Elahe Arani	(51) H01J 37/28	Freddy Roozeboom
Naresh Kumar Gurulingan	(11) 2032349	(74) ir. H.A. Witmans c.s.
Bahram Zonooz	(47) 13.09.2023	(51) H01R 12/70
(74) mr. ir. J. van Breda c.s.	(22) 01.07.2022	H01R 12/71
(31) 17/686,273	(54) Method for area-wise inspecting a sample by means of a multi-beam particle microscope, computer program product and multi-beam particle microscope for semiconductor sample inspection	H01R 12/73
(32) 03.03.2022		H01R 13/24
(33) United States of America		H01R 13/6473
(51) G06N 3/045	(73) Carl Zeiss MultiSEM GmbH	(11) 2032114
G06N 3/08	(72) Dirk Zeidler	(47) 11.09.2023
(11) 2031495	Daniel Boecker	(22) 09.06.2022
(47) 08.09.2023	(74) ir. H.A. Witmans c.s.	(54) CLOSED LOOP COMPRESSED CONNECTOR PIN
(22) 05.04.2022	(31) 10 2021 116 969.0	(73) Intel Corporation
(54) Method to add inductive bias into deep neural networks to make them more shape-aware	(32) 01.07.2021	(72) Xiang Li
(73) NavInfo Europe B.V.	(33) Germany	George Vergis
(72) Elahe Arani	(51) H01L 21/68	Konika Ganguly
Bahram Zonooz	H01L 21/67	(74) dr. A. Krebs
Shruthi Gowda	H05K 13/04	(31) US 17/375,558
(74) mr. ir. J. van Breda c.s.	(11) 2031053	(32) 14.07.2021
(31) 17/686,267	(47) 06.09.2023	(33) United States of America
(32) 03.03.2022	(22) 23.02.2022	(51) H02G 3/22
(33) United States of America	(54) Gripper head, device, and method for handling and varying the spacing of electronic components arranged in a matrix structure	F16L 5/10
(51) G06N 5/04	(73) BESI NETHERLANDS B.V.	(11) 2031059
G06Q 10/06	(72) Mark Hermans	(47) 06.09.2023
(11) 2031090	(74) ir. H.Th. van den Heuvel c.s.	(22) 24.02.2022
(47) 07.09.2023	(51) H01L 23/66	(54) SEALING ELEMENT FOR SEALING A PASSAGE FOR A CABLE ASSEMBLY THROUGH A WALL, AND ITS USE IN HOUSING FOR ACCOMMODATING DEVICES SUCH AS ELECTRICAL, ELECTRONIC AND OPTICAL DEVICES
(22) 28.02.2022	H03F 1/02	(73) Minkels B.V.
(54) INNOVATIVE RURAL TOURISM EFFICIENCY EVALUATION METHOD BASED ON FUZZY COMPREHENSIVE EVALUATION	H03F 3/195	Legrand SNC
(73) Baicheng Teachers College	H03F 3/213	Legrand France
(72) Xinbo Zhou	H03F 3/24	(72) Bastiaan Rutgers
Bo Xu	(11) 2031122	(74) dr. ir. G.J.C. Verdijck c.s.
Xiaoling Lu	(47) 07.09.2023	(51) H02J 7/00
Biao Gao	(22) 01.03.2022	B60L 53/122
Lihua Liu	(54) Doherty amplifier	B60L 53/22
Hongyan Cui	(73) Ampleon Netherlands B.V.	H02J 50/40
Yichao Wu	(72) Zhi Geng	H02J 50/12
Alaa Nimer Abukhalifeh	Yi Zhu	(11) 2031085
(74) dr. A. Krebs	(74) dr. ir. G.J.C. Verdijck c.s.	(47) 07.09.2023
(51) G06Q 10/04	(51) H01M 4/04	(22) 25.02.2022
G06Q 50/06	H01M 10/056	(54) An inductive power transfer system for wirelessly charging a battery with either half or double the nominal battery voltage for the same output power as well as a corresponding method.
(11) 2033883	H01M 4/38	(73) Technische Universiteit Delft
(47) 07.09.2023	C23C 14/18	(72) Thiago Batista Soeiro
(22) 30.12.2022	H01M 4/134	Francesca Grazian
(54) A Wind Power Forecasting Method, System and Medium for Extremely Windy Weather	H01M 4/1395	Pavol Bauer
(73) Gansu Tongxing Intelligent Technology Development CO., LTD.	H01M 4/36	(74) ir. A. Blokland c.s.
State Grid Gansu Electric Power Company	C25C 1/02	(51) H02K 1/12
(72) Yuanfeng Zhang	H01M 10/0525	
Zifen Han	H01M 10/0565	
	H01M 4/40	
	H01M 4/66	
	H01M 4/70	
	H01M 10/0568	

H02K 1/27	(73) Guangdong Polytechnic Normal	(33) Japan
H02K 7/116	University	(51) H05G 2/00
H02K 7/18	(72) Chun Shan	(11) 2033425
(11) 2031164	Xiaolong Chen	(47) 11.09.2023
(47) 08.09.2023	(74) ir. M.B. Plaggenborg	(22) 31.10.2022
(22) 04.03.2022	(51) H04L 43/20	(54) EXTREME ULTRAVIOLET LIGHT
(54) ELECTROMAGNETIC ENERGY	H04L 41/16	GENERATION APPARATUS
HARVESTING DEVICE	H04W 24/04	AND ELECTRONIC DEVICE
(73) Beijing Institute of Technology	H04L 41/40	MANUFACTURING METHOD
(72) Haipeng Liu	H04L 43/08	(73) GIGAPHOTON INC.
Xiangyong Zhang	H04W 24/02	(72) Yoshiyuki Honda
Huiyuan Guan	(11) 2032817	(74) ir. A. Blokland c.s.
Tingrui Peng	(47) 11.09.2023	(31) 2021-213007
Yan Liu	(22) 23.08.2022	(32) 27.12.2021
Bin Su	(54) CROSS-LAYER AUTOMATED	(33) Japan
(74) ir. W.J.J.M. Kempes	FAULT TRACKING AND ANOMALY	
(51) H02K 15/10	DETECTION	
H02K 15/12	(73) Intel Corporation	
H02K 3/34	(72) Christian Maciocco	
H02K 3/40	Maruti Gupta Hyde	
H01B 13/10	Yi Zhang	
H01B 7/02	Alexander Bachmutsky	
(11) 2030425	S. M. Iftekharul Alam	
(47) 13.09.2023	Kshitij Arun Doshi	
(22) 04.01.2022	Satish Chandra Jha	
(54) INTERMITTENT SELF-ADHESIVE	Nageen Himayat	
LAPPED WIRE AND LAPPING	Ravikumar Balakrishnan	
METHOD THEREOF	Vesh Raj Sharma Banjade	
(73) Gold Cup Electric Apparatus Co., Ltd.	Amar Srivastava	
(72) Qingxiang Zheng	Srikathyayani Srikanteswara	
Meizhou Kuang	Francesc Guim Bernat	
Qiong Wang	(74) dr. A. Krebs	
(74) ir. M.B. Plaggenborg	(31) 17/483,285	
(31) 202110907070.5	(32) 23.09.2021	
(32) 09.08.2021	(33) United States of America	
(33) China	(51) H04N 9/67	
(51) H03F 3/195	G01N 21/31	
H03F 3/213	G01J 3/51	
H03F 1/02	G06V 20/10	
(11) 2031173	G01J 3/28	
(47) 11.09.2023	H04N 5/33	
(22) 07.03.2022	G06T 7/00	
(54) RF AMPLIFIER AND ELECTRONIC	H04N 9/04	
DEVICE COMPRISING THE SAME	G01N 21/25	
(73) Ampleon Netherlands B.V.	(11) 2031092	
(72) Radjindrepersad Gajadharsing	(47) 07.09.2023	
Junlei Zhao	(22) 28.02.2022	
Mohadig Widha Rousstia	(54) MULTISPECTRAL IMAGING SYSTEM	
(74) dr. ir. G.J.C. Verdijck c.s.	AND METHOD FOR USING THE	
(51) H04L 9/32	SYSTEM	
(11) 2031049	(73) DB2 Vision B.V.	
(47) 06.09.2023	(72) René Gerhardus Damen	
(22) 23.02.2022	(74) ir. J.C. Volmer c.s.	
(54) user identification system	(51) H05G 2/00	
(73) Hanscan Holdings Limited	(11) 2029356	
(72) Klaas Johannes Zwart	(47) 11.09.2023	
(74) ir. H.A. Witmans c.s.	(22) 08.10.2021	
(51) H04L 27/00	(54) EXTREME ULTRAVIOLET	
H04W 16/14	LIGHT GENERATION SYSTEM	
H04W 72/04	AND ELECTRONIC DEVICE	
(11) 2031040	MANUFACTURING METHOD	
(47) 06.09.2023	(73) Gigaphoton Inc.	
(22) 22.02.2022	(72) Koichiro Koge	
(54) COOPERATIVE TRANSMISSION	Atsushi Ueda	
METHOD AND DEVICE OF COGNITIVE	Takayuki Osanai	
WIRELESS NETWORK BASED ON	(74) ir. H.Th. van den Heuvel c.s.	
RENEWABLE ENERGY	(31) 2020-188485	
	(32) 12.11.2020	

**NP3**

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

**EP1**

**Vertaalde conclusies van Europese octrooiaanvragen.**

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

## EP2

## Voor Nederland verleende Europese octrooien.

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

(51) A01B 21/06	(54) METHOD FOR PROVIDING A BALLAST PROPOSAL FOR AN AGRICULTURAL TRACTOR	(33) United States of America United States of America
(11) EP3552469	(73) Deere & Company	(51) A01D 34/00
(21) EP17869605.0	(72) Schott, Florian	A01D 75/00
(47) 13.09.2023	Reinmuth, Florian	B60P 3/06
(87) ES2017070739	(31) 102017205827	B60R 9/00
17.05.2018	(32) 05.04.2017	G05D 1/00
(22) 08.11.2017	(33) Germany	G05D 1/02
(54) VIBRATION ISOLATION DEVICE FOR AGRICULTURAL MACHINES	(51) A01B 76/00	(11) EP3383162
(73) Cancela Rodriguez, Javier	A01C 19/00	(21) EP16873454.9
(72) Cancela Rodriguez, Javier	A01B 59/00	(47) 13.09.2023
(31) 201631325 U	A01B 63/10	(87) SE2016000073
(32) 08.11.2016	A01B 63/22	15.06.2017
(33) Spain	A01C 7/08	(22) 23.11.2016
(51) A01B 23/06	A01B 63/32	(54) METHOD AND MEANS FOR MOWING LAWNS
B24B 3/46	(11) EP3915349	(73) Robotic Lawn Care Sweden AB
A01B 15/16	(21) EP21172591.6	(72) ANDERSSON, Kalle
(11) EP3878254	(47) 13.09.2023	ANDERSSON, Per
(21) EP21401011.8	(22) 06.05.2021	(31) 1530190
(47) 13.09.2023	(54) SYSTEM AND METHOD FOR AUTOMATIC CONFIGURATION DETECTION AND ASSIGNMENT OF CONTROL OF A PLURALITY OF HYDRAULIC CIRCUITS OF AN ASSOCIATED WORK VEHICLE	1530185
(22) 01.03.2021	(73) Deere & Company	(32) 14.12.2015
(54) SOIL WORKING TOOL	(72) Larsen, Lucas B.	06.12.2015
(73) Amazonen-Werke H. Dreyer GmbH & Co. KG	Theilen, Ricky B.	(33) Sweden
(72) Scherf, Silvio	Sporrer, Adam D.	Sweden
Wolfrum, Thomas	Shaikh, Shobreza	(51) A01D 41/127
(31) 102020106390	Ekhe, Sandeep	A01F 12/44
(32) 10.03.2020	Kale, Mandar M.	(11) EP3672391
(33) Germany	(31) 202016886049	(21) EP18765276.3
(51) A01B 59/06	(32) 28.05.2020	(47) 13.09.2023
A01B 59/00	(33) United States of America	(87) US2018047560
E02F 3/36	(51) A01C 21/00	28.02.2019
F16B 45/02	A01B 79/00	(22) 22.08.2018
(11) EP3662112	A01C 7/06	(54) ADJUSTABLE FAN BASED ON GRAIN THROUGHPUT
(21) EP18840342.2	A01M 9/00	(73) CNH Industrial Belgium NV
(47) 13.09.2023	A01C 7/16	(72) RICKETTS, Jonathan, E.
(87) IB2018055835	(11) EP3465486	(31) 201715682779
07.02.2019	(21) EP17810806.4	(32) 22.08.2017
(22) 03.08.2018	(47) 13.09.2023	(33) United States of America
(54) QUICK COUPLER	(87) US2017036012	(51) A01D 41/14
(73) Wedglock Equipment Limited	14.12.2017	A01D 69/00
(72) ANDERSON, Andre Richard	(22) 05.06.2017	A01F 12/56
KEIGHLEY, Garth Colin	(54) SYSTEM FOR PROVIDING PRESCRIPTIVE APPLICATION OF MULTIPLE PRODUCTS	A01D 43/08
RIDER, Andrew James Phillip	(73) AMVAC Hong Kong Limited	A01D 69/06
RIDER, Michael Hugh James	(72) WINTEMUTE, Eric G.	A01D 43/10
(31) 18742077	RICHARDSON, John J.	(11) EP3906770
17734332	RICE, Richard L.	(21) EP21156546.0
(32) 30.04.2018	CONRAD, Larry M.	(47) 13.09.2023
04.08.2017	RYSDAM, Rex A.	(22) 11.02.2021
(33) New Zealand	CLAUSSEN, Nathaniel R.	(54) DRIVE SYSTEM FOR A SELF-PROPELLED HARVESTING MACHINE
New Zealand	PORTER, Richard M.	(73) CLAAS Selbstfahrende Erntemaschinen GmbH
(51) A01B 63/114	(31) 201615208605	(72) SCHIEWER, Stefan
B62D 49/08	201662346377 P	LÜTKESCHÜMER, Malte
A01B 76/00	(32) 13.07.2016	POPPENBORG, Maik
B60C 23/00	06.06.2016	GRAUTE, Mathias
A01B 63/14		(31) 102020111993
(11) EP3384746		(32) 04.05.2020
(21) EP18165627.3		(33) Germany
(47) 13.09.2023		
(22) 04.04.2018		

(51) A01D 75/28 A01D 41/14 A01D 75/18	(51) A01G 27/00 A01G 13/02	Mithen, Richard, F. (31) 201261700762 P
(11) EP4081019	(11) EP3285564	(32) 13.09.2012
(21) EP20842846.6	(21) EP16773738.6	(33) United States of America
(47) 13.09.2023	(47) 13.09.2023	<hr/>
(87) US2020066394	(87) US2016023353	(51) A01K 61/60
01.07.2021	06.10.2016	(11) EP3528621
(22) 21.12.2020	(22) 21.03.2016	(21) EP17863211.3
(54) CONTROL OF A HEADER OF A HARVESTER DURING A NON- HARVESTING MODE	(54) IRRIGATION APPARATUS	(47) 13.09.2023
(73) CNH Industrial Belgium NV	(73) 4D Holdings, LLC	(87) SG2017050494
(72) HUNT, Cory Douglas	(72) MARSHALL, Aaron	26.04.2018
MARTIN, Jethro	(31) 201514675907	(22) 02.10.2017
(31) 201916724918	(32) 01.04.2015	(54) SYSTEM AND METHOD FOR AQUACULTURE USING FLOATING CLOSED CONTAINMENT FARMING
(32) 23.12.2019	(33) United States of America	<hr/>
(33) United States of America	(51) A01G 27/04	(73) AME2 Pte Ltd
<hr/>	A01G 27/06	(72) LEOW, Ban Tat
(51) A01F 12/30	A01G 13/02	(31) 10201608768V
A01F 12/32	A01G 9/02	(32) 19.10.2016
(11) EP3876695	A01G 27/00	(33) Singapore
(21) EP19802061.2	(11) EP3410840	<hr/>
(47) 13.09.2023	(21) EP17747950.8	(51) A01K 67/027
(87) DK2019050330	(47) 13.09.2023	C07K 14/705
14.05.2020	(87) US2017015228	C12N 15/90
(22) 04.11.2019	10.08.2017	(11) EP3507373
(54) A GRAIN SEPARATING APPARATUS FOR A COMBINE HARVESTER AND A METHOD FOR SEPARATING GRAIN FROM STRAW MATERIAL	(22) 27.01.2017	(21) EP17845420.3
(73) Jakob Sørensen IP Aps	(54) TOP FEEDING WICKING APPARATUS AND SYSTEM	(47) 13.09.2023
(72) Sørensen, Jakob Balling Bro	(73) 4D Holdings, LLC	(87) CN2017099574
(31) PA201870730	(72) MARSHALL, Aaron	08.03.2018
(32) 06.11.2018	(31) 201662289678 P	(22) 30.08.2017
(33) Denmark	(32) 01.02.2016	(54) GENETICALLY MODIFIED NON- HUMAN ANIMAL WITH HUMAN OR CHIMERIC PD-L1
<hr/>	(33) United States of America	(73) Biocytogen Pharmaceuticals (Beijing) Co., Ltd.
(51) A01G 2/30	(51) A01G 31/04	(72) SHEN, Yuelel
(11) EP2853598	A01G 9/14	BAI, Yang
(21) EP14186459.5	A01G 24/30	GUO, Yanan
(47) 13.09.2023	A01G 24/44	HUANG, Rui
(22) 25.09.2014	A01G 24/23	ZHOU, Xiaofei
(54) Methods and compositions for obtaining useful plant traits	A01G 24/18	GUO, Chaoshe
(73) Board of Regents of the University of Nebraska	(11) EP3694307	(31) 201710757022
(72) Mackenzie, Sally	(21) EP18865682.1	201610775382
Fromm, Michael	(47) 13.09.2023	(32) 29.08.2017
Virdi, Kamaldeep	(87) US2018054927	31.08.2016
Wamboldt, Yashitola	18.04.2019	(33) China
(31) 201414495498	(22) 09.10.2018	China
201361882140 P	(54) HYDROPONIC GROWING MEDIUM	<hr/>
(32) 24.09.2014	(73) Profile Products L.L.C.	(51) A01K 67/027
25.09.2013	(72) SPITTLE, Kevin Scott	C07K 16/00
(33) United States of America	BOWERS, Gary Lane	C12N 15/85
United States of America	(31) 201862712356 P	(11) EP3653049
<hr/>	201762569888 P	(21) EP19204021.0
(51) A01G 25/06	(32) 31.07.2018	(47) 13.09.2023
A01G 25/16	09.10.2017	(22) 13.12.2013
A01C 21/00	(33) United States of America	(54) POLYNUCLEOTIDES ENCODING RODENT ANTIBODIES WITH HUMAN IDIOTYPES AND ANIMALS COMPRISING SAME
(11) EP3804506	United States of America	(73) OmniAb, Inc.
(21) EP20200474.3	(51) A01H 5/10	(72) BRUGGEMANN, Marianne
(47) 13.09.2023	A01H 1/04	BUELOW, Roland
(22) 07.10.2020	C12Q 1/68	OSBORN, Michael, J.
(54) TWIN ROW GROWING METHOD WITH SUBIRRIGATION	C12N 15/11	MA, Biao
(73) Underdrip SRL	(11) EP2708115	(31) 201261737371 P
(72) ROSSI, Giuseppe Giorgio	(21) EP13184376.5	(32) 14.12.2012
(31) 201900018176	(47) 13.09.2023	(33) United States of America
(32) 08.10.2019	(22) 13.09.2013	<hr/>
(33) Italy	(54) BRASSICA OLERACEA PLANTS WITH IMPROVED NUTRITIONAL VALUE	(51) A01K 67/033
	(73) Seminis Vegetable Seeds, Inc.	D01B 7/00
	Plant Bioscience Limited	(11) EP3892092
	(72) Van Den Bosch, Franciscus, G.	(21) EP19893659.3
	Koorevaar, Gerard, N.	



(47) 13.09.2023	(31) 102017126350	JACOBSON, Matthew
(87) JP2019047403	(32) 10.11.2017	HUA, Lan
11.06.2020	(33) Germany	MORGAN, Bradley
(22) 04.12.2019	(51) A01N 1/02	(31) 201261661320 P
(54) APPARATUS AND METHOD FOR	F25D 3/00	201161581053 P
PRODUCING BAGWORM SILK	(11) EP3694321	(32) 18.06.2012
THREAD	(21) EP18785957.4	28.12.2011
(73) National Agriculture and Food Research	(47) 13.09.2023	(33) United States of America
Organization	(87) EP2018077916	United States of America
Kowa Company, Ltd.	18.04.2019	(51) A01N 43/78
(72) YOSHIOKA, Taiyo	(22) 12.10.2018	A01N 43/80
KAMEDA, Tsunenori	(54) CRYOPRESERVATION METHOD AND	C04B 28/14
KITAMURA, Takahiro	APPARATUS	C04B 41/00
ASANUMA, Akimune	(73) Asymptote Ltd	C04B 41/46
(31) 2018227669	(72) KILBRIDE, Peter	E04C 2/04
(32) 04.12.2018	MORRIS, George, John	(11) EP3725155
(33) Japan	(31) 201716729	(21) EP19170070.7
(51) A01M 1/02	(32) 12.10.2017	(47) 13.09.2023
A01M 1/14	(33) United Kingdom	(22) 18.04.2019
H03K 17/955	(51) A01N 25/02	(54) ANTIFUNGAL WALLBOARDS
(11) EP3869952	A01N 25/18	(73) LANXESS Deutschland GmbH
(21) EP19794666.8	A01N 31/02	(72) Wachtler, Peter
(47) 13.09.2023	A01N 31/08	Babenko, Olga
(87) IB2019058937	A01N 43/90	Uhr, Hermann
30.04.2020	A01N 37/02	(51) A21B 1/48
(22) 21.10.2019	A01P 19/00	B65G 15/38
(54) INTELLIGENT TRAP AND	(11) EP3726985	(11) EP3684187
CONSUMABLES	(21) EP18833057.5	(21) EP18786861.7
(73) Caucus Connect Limited	(47) 13.09.2023	(47) 13.09.2023
(72) KAYE, Mathew Varghese	(87) EP2018086756	(87) IB2018057137
JACQUES, Mark	27.06.2019	28.03.2019
(31) 201817182	(22) 21.12.2018	(22) 18.09.2018
(32) 22.10.2018	(54) CONTROLLED-DIFFUSION	(54) CONTINUOUS BAKING OVEN
(33) United Kingdom	SEMIOCHEMICAL COMPOSITION	COMPRISING A CONVEYOR WITH
(51) A01M 7/00	(73) Melchior Material And Life Science	CAVITIES
(11) EP3248463	France	(73) SLB S.r.l.
(21) EP17401051.2	(72) GUERRET, Olivier	(72) SANGIACOMO, Paola
(47) 13.09.2023	DUFOUR, Samuel	(31) 201700104599
(22) 19.05.2017	(31) 1762907	(32) 19.09.2017
(54) SPRAYER DEVICE, METHOD AND USE	(32) 22.12.2017	(33) Italy
OF A SENSOR MODULE	(33) France	(51) A21B 5/04
(73) Amazonen-Werke H. Dreyer SE & Co.	(51) A01N 35/00	F24C 7/04
KG	A61K 31/11	(11) EP4035532
(72) Johannaber, Stefan Jan	C07D 213/80	(21) EP20957907.7
Austermann, Stefan	C07D 215/14	(47) 13.09.2023
Wessels, Thomas	C07C 69/76	(87) JP2020043372
(31) 102016109407	C07D 231/56	27.05.2022
(32) 23.05.2016	C07D 401/04	(22) 20.11.2020
(33) Germany	C07D 471/04	(54) BAUMKUCHEN BAKER AND CONTROL
(51) A01M 7/00	C07D 257/04	METHOD THEREOF
B05B 1/20	C07D 487/04	(73) Juchheim Co., Ltd.
B05B 7/32	C07D 211/62	(72) KAWAMOTO, Hideo
(11) EP4070657	C07D 213/30	(51) A22C 21/00
(21) EP22174973.2	C07C 65/21	A22C 17/00
(47) 13.09.2023	(11) EP3738434	(11) EP3964074
(22) 02.11.2018	(21) EP20167746.5	(21) EP21805079.7
(54) SYSTEM FOR THE SUPPLY OF	(47) 13.09.2023	(47) 13.09.2023
AN ACTIVE SUBSTANCE FOR AN	(22) 28.12.2012	(87) JP2021016795
AGRICULTURAL SPRAYER	(54) INTERMEDIATES TO OBTAIN	18.11.2021
(73) Amazonen-Werke H. Dreyer SE & Co.	SUBSTITUTED BENZALDEHYDE	(22) 27.04.2021
KG	COMPOUNDS AND METHODS FOR	(54) WORKPIECE MEASURING DEVICE
(72) AUSTERMANN, Stefan	THEIR USE IN INCREASING TISSUE	AND SLITTING SYSTEM
DEMBECK, Achim	OXYGENATION	(73) MAYEKAWA MFG. CO., LTD.
KALKMANN, Helmke	(73) Global Blood Therapeutics, Inc.	(72) KIDO, Koji
KLEMANN, Timo	(72) METCALF, Brian	SHIBAMA, Keigo
KÜHN, Christoph	CHUANG, Chihyuan	SAKURAYAMA, Hiroyuki
STIEGEMEYER, Mathias	WARRINGTON, Jeffrey	KOIZUMI, Akira
FELDHAUS, Johannes	PAULVANNAN, Kumar	AKABANE, Hajime

WATANABE, Masaomi	A23B 4/20	(21) EP20811356.3
(31) 2020083685	A23B 4/24	(47) 13.09.2023
(32) 12.05.2020	A23B 4/027	(87) EP2020083554
(33) Japan	A23L 13/60	10.06.2021
(51) A23D 9/02	A23L 3/3472	(22) 26.11.2020
C11C 3/10	(11) EP4033918	(54) AEROSOL-GENERATING
C07C 67/48	(21) EP20775360.9	ELEMENT COMPRISING A FILTER
C07C 69/587	(47) 13.09.2023	WITH A HIGH CONTENT OF A
(11) EP3817568	(87) EP2020076981	POLYHYDROXYALKANOATE
(21) EP19831304.1	01.04.2021	POLYMER OR COPOLYMER
(47) 13.09.2023	(22) 25.09.2020	(73) Philip Morris Products S.A.
(87) PL2019050037	(54) COMPOSITION FOR USE IN	(72) PAPAKYRILLOU, Stefanos
09.01.2020	PROCESSED MEAT	(31) 19386051
(22) 06.07.2019	(73) Purac Biochem B.V.	(32) 03.12.2019
(54) METHOD FOR OBTAINING	(72) MCCOY, Garrett Douglas	(33) European Patent Office (EPO)
PURIFIED FATTY ACID ESTER	KUMAR, Saurabh	(51) A24F 1/30
COMPOSITION AND FATTY ACID	ROURKE, Thomas	A24F 40/465
ESTER COMPOSITION	(31) PCT/IB2019/001049	A24F 40/20
(73) onesano S.A.	(32) 26.09.2019	(11) EP3854230
(72) DU Y, Sebastian	(33) World Intellectual Property Office (WIPO)	(21) EP20197443.3
KWA NIAK, Wojciech	(51) A24B 15/16	(47) 13.09.2023
(31) 42622718	A24F 40/46	(22) 22.09.2020
(32) 06.07.2018	(11) EP2954793	(54) ATOMIZATION ASSEMBLY AND
(33) Poland	(21) EP14760671.9	HOOKAH COMPRISING THE SAME
(51) A23J 3/14	(47) 13.09.2023	(73) Liu, Tuanfang
A23J 3/22	(87) JP2014055764	(72) Liu, Tuanfang
A23L 33/115	12.09.2014	(31) 201922243793 U
A23L 33/185	(22) 06.03.2014	201911273596
(11) EP4048091	(54) NON-COMBUSTION-TYPE FLAVOR	(32) 12.12.2019
(21) EP20790024.2	INHALER	12.12.2019
(47) 13.09.2023	(73) Japan Tobacco Inc.	(33) China
(87) EP2020079428	(72) SUZUKI, Akihiko	China
29.04.2021	UCHII, Kimitaka	(51) A24F 40/40
(22) 20.10.2020	HASEGAWA, Takashi	A24F 40/20
(54) MINCED MEAT ANALOGUE	YAMADA, Manabu	(11) EP3801079
(73) Unilever IP Holdings B.V.	TAKEUCHI, Manabu	(21) EP19725156.4
(72) BOM, Paul	(31) 2013047286	(47) 13.09.2023
MELLEMA, Michel	2013047285	(87) EP2019062846
(31) 19204353	(32) 08.03.2013	28.11.2019
19204338	08.03.2013	(22) 17.05.2019
19204310	(33) Japan	(54) VAPOUR GENERATING DEVICE AND
19204323	Japan	LID
(32) 21.10.2019	(51) A24C 5/01	(73) JT International SA
21.10.2019	A24D 3/02	(72) DOCI, Giovanni
21.10.2019	A24D 1/20	BOUCHUIGUIR, Layth
21.10.2019	A24F 40/465	(31) PCT/EP2018/097074
(33) European Patent Office (EPO)	(11) EP3790414	18174434
European Patent Office (EPO)	(21) EP19712719.4	107147308
European Patent Office (EPO)	(47) 13.09.2023	(32) 28.12.2018
European Patent Office (EPO)	(87) EP2019056555	25.05.2018
(51) A23L 3/01	19.12.2019	27.12.2018
(11) EP3621454	(22) 15.03.2019	(33) World Intellectual Property Office (WIPO)
(21) EP18721411.9	(54) METHOD AND DEVICE FOR	European Patent Office (EPO)
(47) 13.09.2023	PRODUCING ROD-LIKE PRODUCTS	Taiwan, Chinese Taipei
(87) EP2018062000	OF THE TOBACCO PROCESSING	(51) A24F 40/40
15.11.2018	INDUSTRY	A24F 40/51
(22) 09.05.2018	(73) Körber Technologies GmbH	A24F 40/53
(54) THAWING-APPARATUS AND METHOD	(72) BECKER, Steffen	A24F 40/60
TO THAW A SUBSTANCE	(31) 102018127925	A24F 40/65
(73) GEA Food Solutions Bakel B.V.	102018114404	A61M 11/04
(72) VAN ERP, Joost	(32) 12.12.2018	A61M 15/06
(31) 18159561	15.06.2018	(11) EP3727059
17170103	(33) Germany	(21) EP18829444.1
(32) 01.03.2018	Germany	(47) 13.09.2023
09.05.2017	(51) A24D 3/06	(87) GB2018053684
(33) European Patent Office (EPO)	A24D 3/08	27.06.2019
European Patent Office (EPO)	A24D 3/17	(22) 19.12.2018
(51) A23L 13/40	(11) EP4069002	

(54) ELECTRONIC AEROSOL PROVISION SYSTEM	A24F 40/30 A24F 40/20	PESTEL, Thomas
(73) Nicoventures Trading Limited	(11) EP3886616	(31) 2011900
(72) EZEOKE, Maurice	(21) EP20883280.8	(32) 19.11.2020
LEADLEY, David	(47) 13.09.2023	(33) France
MULLIN, Martin Conrad	(87) KR2020017967	(51) A43B 1/04
(31) 201721821	12.08.2021	A43B 7/14
(32) 22.12.2017	(22) 09.12.2020	A43B 23/22
(33) United Kingdom	(54) AEROSOL GENERATING DEVICE AND OPERATION METHOD THEREOF	(11) EP3474694
(51) A24F 40/42	(73) KT&G Corporation	(21) EP17735333.1
A61M 11/04	(72) JUNG, Hyung Jin	(47) 13.09.2023
A61M 15/00	(31) 20200015173	(87) US2017038947
A61M 15/06	(32) 07.02.2020	04.01.2018
(11) EP3700377	(33) Korea (Republic)	(22) 23.06.2017
(21) EP18804232.9	(51) A24F 40/53	(54) A TEXTILE INCLUDING BULKING YARN
(47) 13.09.2023	G05D 23/19	(73) Nike Innovate C.V.
(87) EP2018079136	A24F 40/10	(72) DA COSTA PEREIRA MACHADO, Fabricio
02.05.2019	A24F 40/57	ORME, Kristen
(22) 24.10.2018	G05D 23/24	(31) 201662355153 P
(54) A CARTRIDGE FOR AN AEROSOL PROVISION DEVICE	(11) EP3878295	(32) 27.06.2016
(73) Nicoventures Trading Limited	(21) EP19901863.1	(33) United States of America
(72) POTTER, Mark	(47) 13.09.2023	(51) A43B 3/00
(31) 201717496	(87) CN2019112894	A43B 13/12
(32) 24.10.2017	02.07.2020	A43B 13/18
(33) United Kingdom	(22) 24.10.2019	A43B 21/26
(51) A24F 40/465	(54) CONSTANT-POWER ELECTRONIC CIGARETTE PROTECTING AGAINST DRY-HEATING AND CONTROLLING METHOD THEREOF	A43B 21/32
A24F 40/51	(73) Huizhou Happy Vaping Technology Limited	(11) EP4018866
H05B 6/10	(72) LIN, Guangrong	(21) EP21216598.9
A24F 40/53	ZHENG, Xianbin	(47) 13.09.2023
H05B 6/06	ZHANG, Xiyong	(22) 21.12.2021
A24F 40/20	(31) 201811638426	(54) SHOE SOLE AND SHOE
(11) EP3731676	(32) 29.12.2018	(73) ASICS Corporation
(21) EP18833439.5	(33) China	(72) Sakamoto, Masanori
(47) 13.09.2023	(51) A24F 47/00	Iwasa, Yutaro
(87) EP2018097073	A24B 15/16	Hatano, Genki
04.07.2019	(11) EP3021699	Shimomura, Koji
(22) 28.12.2018	(21) EP14745331.0	(31) 2020215682
(54) INDUCTION HEATING ASSEMBLY FOR A VAPOUR GENERATING DEVICE	(47) 13.09.2023	(32) 24.12.2020
(73) JT International SA	(87) US2014046903	(33) Japan
(72) GILL, Mark	22.01.2015	(51) A43B 3/00
(31) 17211203	(22) 16.07.2014	A43C 1/04
107146588	(54) LIQUID AEROSOL FORMULATION OF AN ELECTRONIC SMOKING ARTICLE	A43C 7/00
(32) 29.12.2017	(73) Altria Client Services LLC	A43C 19/00
22.12.2018	(72) LIPOWICZ, Peter	A43B 3/40
(33) European Patent Office (EPO) Taiwan, Chinese Taipei	MARCQ, Pauline	(11) EP3886639
(51) A24F 40/485	KOBAL, Gerd	(21) EP19888492.6
A24F 40/51	MISHRA, Munmaya K.	(47) 13.09.2023
A24F 40/10	KARLES, Georgios D.	(87) US2019063009
(11) EP4035543	LI, San	04.06.2020
(21) EP20868377.1	(31) 201361856286 P	(22) 25.11.2019
(47) 13.09.2023	(32) 19.07.2013	(54) AUTOLACING FOOTWEAR MOTOR HAVING FORCE-DIRECTING SUPPORTS
(87) CN2020117867	(33) United States of America	(73) NIKE Innovate C.V.
01.04.2021	(51) A41D 19/00	(72) DONOHOE, Brendan
(22) 25.09.2020	(11) EP4000439	(31) 201862773867 P
(54) ELECTRONIC CIGARETTE	(21) EP21208139.2	201862773842 P
(73) Shenzhen First Union Technology Co., Ltd.	(47) 13.09.2023	(32) 30.11.2018
(72) YUAN, Zhi	(22) 15.11.2021	30.11.2018
XU, Zhongli	(54) SET OF CLOTHING FOR PRACTISING A WINTER SPORT	(33) United States of America
LI, Yonghai	(73) Decathlon	United States of America
(31) 201921609864 U	(72) CAREL, Roxane	(51) A43B 3/00
(32) 26.09.2019	KERGADALLAN, Cyril	A43C 1/04
(33) China		A43C 7/00
(51) A24F 40/50		A43C 19/00
A24F 40/51		G01D 5/347
		H02P 6/16
		(11) EP3886630

(21) EP19889528.6	GENERATING A VISUAL OUSOLE	United States of America
(47) 13.09.2023	PATTERN	(51) A45C 7/00
(87) US2019063012	(73) adidas AG	A45C 13/10
04.06.2020	(72) Coupe, Gregory Austin	(11) EP3824758
(22) 25.11.2019	Schneider, Andrew Jacob	(21) EP20208226.9
(54) AUTOLACING FOOTWEAR MOTOR	Perrault, Jacques	(47) 13.09.2023
HAVING ROTARY DRUM ENCODER	Berin, Skye B	(22) 17.11.2020
(73) NIKE Innovate C.V.	Midlam, Gavin Cougar	(54) BAG SYSTEM
(72) DONOHOE, Brendan	Padovani, Matteo Edmond	(73) Parker, Linda Kay
PHEIL, Holli	Kleiman, Benjamin William	(72) Parker, Linda Kay
SCHNEIDER, Sumner L.	Rudin, Jake Peter	(31) 201916691421
(31) 201862773842 P	Wittchen, Alex Julian	(32) 21.11.2019
201862773867 P	(31) 201816185954	(33) United States of America
(32) 30.11.2018	(32) 09.11.2018	(51) A45C 11/24
30.11.2018	(33) United States of America	H01M 10/42
(33) United States of America	(51) A43D 3/02	H01M 10/46
United States of America	A43D 3/08	H01M 10/48
(51) A43B 11/00	A43D 3/14	H01M 50/256
A43B 3/26	(11) EP3900568	H01M 50/209
A43B 23/08	(21) EP21167892.5	H01M 50/247
A43C 11/00	(47) 13.09.2023	(11) EP3270437
A43B 3/24	(22) 12.04.2021	(21) EP16764225.5
(11) EP3809909	(54) LAST, METHOD FOR	(47) 13.09.2023
(21) EP19735150.5	MANUFACTURING LAST, AND	(87) CN2016076300
(47) 13.09.2023	METHOD FOR MANUFACTURING	22.09.2016
(87) US2019037939	FOOTWEAR UPPER	(22) 14.03.2016
26.12.2019	(73) ASICS Corporation	(54) ELECTRICAL ENERGY PROVISION
(22) 19.06.2019	(72) SAKAGUCHI, Masanori	DEVICE
(54) ARTICLES OF FOOTWEAR AND	KOZUKA, Yuya	(73) Positec Power Tools (Suzhou) Co., Ltd
OTHER FOOT-RECEIVING DEVICES	TAKASHIMA, Shingo	(72) GAO, Zhendong
HAVING REARWARD TRANSLATING	HATANO, Genki	MU, Guoliang
HEEL COMPONENTS	ABE, Satoru	LIU, Fangshi
(73) NIKE Innovate C.V.	(31) 2020077797	(31) 201610028021
(72) SEID, Aaron K.	(32) 24.04.2020	201510717601
(31) 201862687056 P	(33) Japan	201510697073
(32) 19.06.2018	(51) A44C 5/20	201510465428
(33) United States of America	A44C 11/00	201510400765
(51) A43C 3/02	(11) EP3515229	201510111966
A41F 1/00	(21) EP17784397.6	201510111767
A43C 7/04	(47) 13.09.2023	(32) 15.01.2016
A43C 11/08	(87) IB2017055686	29.10.2015
(11) EP3902434	29.03.2018	22.10.2015
(21) EP19836113.1	(22) 20.09.2017	31.07.2015
(47) 13.09.2023	(54) CUSTOMISABLE JEWELLERY	09.07.2015
(87) US2019060523	ARTICLES	13.03.2015
02.07.2020	(73) Shri Shubham (HK) Ltd	13.03.2015
(22) 08.11.2019	(72) DAGA, Abhinav	(33) China
(54) PULLEY FOR A WEARABLE ARTICLE	(31) 201616113	China
(73) NIKE Innovate C.V.	(32) 22.09.2016	China
(72) HATFIELD, Tinker L.	(33) United Kingdom	China
ORAND, Austin	(51) A45C 7/00	China
(31) 201862785445 P	A01K 1/02	China
(32) 27.12.2018	A45F 3/04	China
(33) United States of America	(11) EP3544413	(51) A45D 1/04
(51) A43D 1/02	(21) EP17874238.3	A45D 1/00
B33Y 80/00	(47) 13.09.2023	A45D 34/00
A43B 13/22	(87) US2017063130	(11) EP3302164
A61B 5/103	31.05.2018	(21) EP16724911.9
A61B 5/107	(22) 22.11.2017	(47) 13.09.2023
B33Y 50/00	(54) PET CARRYING BACKPACK	(87) EP2016061878
A61B 5/11	(73) K9 Sport Sack, LLC	01.12.2016
A61B 5/0205	(72) WATSON, Joseph	(22) 26.05.2016
(11) EP3649883	BUSSIO, Daniel	(54) DEVICE FOR TREATING THE HAIR
(21) EP19207421.9	(31) 201662427688 P	HAVING PUSH-RELEASE CARTRIDGE
(47) 13.09.2023	201662426137 P	LOCKING
(22) 06.11.2019	(32) 29.11.2016	(73) L'OREAL
(54) A METHOD FOR MANUFACTURING	23.11.2016	SEB S.A.
AN OUTSOLE AND A METHOD FOR	(33) United States of America	(72) MESSENGER, Edouard

NGO, Eddy	(73) Sedus Systems GmbH	02.10.2014
MAISONNEUVE, Martial	(72) REIM, Andreas	(22) 13.03.2014
VACHERON, Xavier	(31) 102020112384	(54) SLIM DRAWER SLIDE
FEREYRE, Régis	(32) 07.05.2020	(73) Accuride International Inc.
(31) 1554677	(33) Germany	(72) HASHEMI, Darush David
(32) 26.05.2015	(51) A47B 9/00	LE, Hai
(33) France	(11) EP3624635	PARVIN, Jack
(51) A45D 34/04	(21) EP18731735.9	WENMING, Yang
A45D 44/22	(47) 13.09.2023	XIANG, Zhang
B65D 47/20	(87) DK2018000015	(31) 201361779125 P
A45D 40/26	22.11.2018	(32) 13.03.2013
A45D 33/34	(22) 15.05.2018	(33) United States of America
A45D 34/00	(54) HEIGHT-ADJUSTABLE TABLE	(51) A47C 4/30
A45D 33/00	(73) LINAK A/S	A47C 4/38
A45D 40/00	(72) STAER MØLLER, Anne	A47C 4/48
A45D 40/24	(31) PA201700305	(11) EP3737264
(11) EP3718433	(32) 15.05.2017	(21) EP19703479.6
(21) EP18882702.6	(33) Denmark	(47) 13.09.2023
(47) 13.09.2023	(51) A47B 81/00	(87) US2019013511
(87) KR2018001444	E05B 65/00	18.07.2019
06.06.2019	F41A 17/04	(22) 14.01.2019
(22) 02.02.2018	F41A 17/06	(54) PORTABLE CHAIR
(54) COSMETIC CONTAINER HAVING	F41A 17/44	(73) Yeti Coolers, LLC
HANDLING PORTION	F41A 17/00	(72) WINTERHALTER, Andrew J.
(73) World Sponge Manufacturing Co., Ltd.	F41A 23/18	CIESZKO, Michael
(72) SONG, Ho Suk	(11) EP3863472	GOLDBERG, Evan
(31) 20180007678	(21) EP19742010.2	SULLIVAN, Derek G.
20170160307	(47) 13.09.2023	DESROCHES, Donald Edward
(32) 22.01.2018	(87) EP2019069010	(31) 201862638879 P
28.11.2017	16.04.2020	201862617160 P
(33) Korea (Republic)	(22) 15.07.2019	(32) 05.03.2018
Korea (Republic)	(54) DEVICE FOR STORING PORTABLE	12.01.2018
(51) A45D 40/26	FIREARMS	(33) United States of America
A45D 34/04	(73) Hackl, Andreas	United States of America
(11) EP3989771	(72) Hackl, Andreas	(51) A47C 4/42
(21) EP20747039.4	(31) 3142018	A47C 4/00
(47) 13.09.2023	(32) 08.10.2018	A47C 4/28
(87) FR2020051109	(33) Austria	A47C 4/30
30.12.2020	(51) A47B 88/42	A47C 4/44
(22) 25.06.2020	A47B 88/906	A47C 7/02
(54) WIPER FOR A LIQUID OR PASTY	A47B 88/994	A47C 7/62
PRODUCT APPLICATOR	(11) EP3850986	A47C 7/28
(73) Parfums Christian Dior	(21) EP20152561.5	A47C 31/02
(72) FUCHS, Benoît	(47) 13.09.2023	A47C 5/06
AUTIE, Noël	(22) 17.01.2020	A47C 4/10
(31) 1907052	(54) CUPBOARD PULL-OUT FOR A	A47C 4/06
(32) 27.06.2019	CUPBOARD ELEMENT	(11) EP3629838
(33) France	(73) Peka-Metall AG	(21) EP18805761.6
(51) A45D 44/00	(72) EICHENBERGER, Urs	(47) 13.09.2023
(11) EP3860396	SCHÖPFER, Roland	(87) US2018034040
(21) EP19791153.0	WEBER, Bernhard	29.11.2018
(47) 13.09.2023	(51) A47B 88/493	(22) 23.05.2018
(87) US2019054992	(11) EP3893695	(54) PORTABLE CHAIR AND METHODS OF
16.04.2020	(21) EP18913200.4	FORMING A PORTABLE CHAIR
(22) 07.10.2019	(47) 13.09.2023	(73) Yeti Coolers, LLC
(54) METHOD OF MAKING APPLICATOR	(87) TR2018050790	(72) DOOLAN, William S.
WITH PRECISION EYE OPENING	18.06.2020	NICHOLS, Steve Charles
(73) The Procter & Gamble Company	(22) 11.12.2018	SEIDERS, Roy Joseph
(72) STANLEY, Scott Kendyl	(54) DRAWER EXTRACTION GUIDE	(31) 201715602841
RAPACH, Andrew Paul	(73) Samet Kalip Ve Madeni Esya San. Ve	(32) 23.05.2017
ORR, Jill Marlene	Tic. A.S.	(33) United States of America
(51) A47B 3/091	(72) PRENTNER, Christian	(51) A47C 31/00
A47B 3/08	(51) A47B 88/493	A47C 29/00
(11) EP3906812	(11) EP2967213	A61N 1/16
(21) EP21167229.0	(21) EP14775732.2	H05K 9/00
(47) 13.09.2023	(47) 13.09.2023	(11) EP3300634
(22) 07.04.2021	(87) US2014026573	(21) EP17194374.9
(54) FOLDING TABLE		(47) 13.09.2023

(22) 02.10.2017	D06F 5/00	(72) LOCHER, Grégoire
(54) ANTI-RADIATION ANTI-SMOG MEDICAL MATTRESS	B63C 11/02	ROBYR, Sébastien
(73) ADITEC Slovakia s.r.o.	A47G 25/20	(31) 202019104349 U
(72) Revaj, Pavol	(11) EP3684232	(32) 07.08.2019
(31) 500622016	(21) EP18853989.4	(33) Germany
(32) 30.09.2016	(47) 13.09.2023	(51) A47J 31/46
(33) Slovakia	(87) IL2018050960	A47J 31/00
(51) A47D 1/00	14.03.2019	F16K 27/00
A47D 1/10	(22) 30.08.2018	(11) EP3714745
(11) EP3735865	(54) WETSUIT WASHING DEVICE	(21) EP20155906.9
(21) EP20173623.8	(73) M.A.S. Bully Ltd.	(47) 13.09.2023
(47) 13.09.2023	(72) DAYAN, Maor	(22) 06.02.2020
(22) 08.05.2020	(31) 201762554036 P	(54) MANIFOLD ASSEMBLY WITH INTEGRATED VENT AND FLOW CONTROL PORTS
(54) CHILD CARRIER	(32) 05.09.2017	(73) B/E Aerospace, Inc.
(73) Wonderland Switzerland AG	(33) United States of America	(72) BEARD, John H.
(72) TUCKEY, Peter R.	(51) A47G 27/02	MILLS, Brian P.
(31) 201962884283 P	A47L 23/26	(31) 201916293368
201962844948 P	E04F 15/02	(32) 05.03.2019
(32) 08.08.2019	(11) EP3960041	(33) United States of America
08.05.2019	(21) EP21192631.6	(51) A47J 36/00
(33) United States of America	(47) 13.09.2023	G06Q 50/10
United States of America	(22) 23.08.2021	G16H 20/60
(51) A47D 7/02	(54) INTEGRATED MAT ASSEMBLY AND METHOD OF USE	A47J 36/32
A47D 7/04	(73) Wearwell, LLC	H05B 1/02
(11) EP4070690	(72) HUSS, Philip C.	(11) EP3818916
(21) EP22160144.6	(31) 202017002974	(21) EP19208260.0
(47) 13.09.2023	(32) 26.08.2020	(47) 13.09.2023
(22) 04.03.2022	(33) United States of America	(22) 11.11.2019
(54) FURNITURE ITEM FOR A CHILD	(51) A47J 19/02	(54) METHOD FOR PERFORMING A COOKING PROCESS ON THE BASIS OF A COOKING RECIPE INFORMATION
(73) Touzet, Nicole	A47J 19/06	(73) ELECTROLUX APPLIANCES
(72) TOUZET, Nicole	(11) EP3874996	AKTIEBOLAG
(31) 2102212	(21) EP20178174.7	(72) LUCKHARDT, Christoph
(32) 08.03.2021	(47) 13.09.2023	(51) A47J 36/32
(33) France	(22) 04.06.2020	F24C 3/12
(51) A47D 13/02	(54) JUICER	A47J 37/06
(11) EP3995051	(73) Angel Co., Ltd.	(11) EP3910241
(21) EP20306323.5	(72) LEE, Mun Hyon	(21) EP20174245.9
(47) 13.09.2023	LEE, Kwang Hui	(47) 13.09.2023
(22) 04.11.2020	(31) 20200027581	(22) 12.05.2020
(54) CHILD CARRIER	(32) 05.03.2020	(54) GAS GRILL AND CONTROL METHOD THEREOF
(73) OVERTEA SA	(33) Korea (Republic)	(73) Otto Wilde Grillers GmbH
(72) TSAI, Cecilia	(51) A47J 31/36	(72) Wilde, Nils
(51) A47G 19/22	(11) EP3875002	Zhang, Haotian
(11) EP3855982	(21) EP18935993.8	(51) A47J 37/06
(21) EP19802004.2	(47) 13.09.2023	(11) EP3708046
(47) 13.09.2023	(87) CN2018113486	(21) EP20163424.3
(87) US2019057420	07.05.2020	(47) 13.09.2023
30.04.2020	(22) 01.11.2018	(22) 16.03.2020
(22) 22.10.2019	(54) BREWING APPARATUS AND BEVERAGE PREPARATION DEVICE	(54) DEVICE FOR HEATING AND/OR COOKING FOOD
(54) CLOSURE AND LID AND METHOD OF FORMING CLOSURE AND LID	(73) CINO Technology (shenzhen) Limited	(73) reamotion GmbH
(73) Yeti Coolers, LLC	(72) FENG, Tingquan	(72) Reales Bertomeo, Emilio
(72) JINKINS, Cody	LUO, Changhai	(31) 202019101468 U
BONDHUS, Andy	(31) 201811290591	(32) 14.03.2019
RANE, Mark Carlson	(32) 31.10.2018	(33) Germany
BULLOCK, Dustin	(33) China	(51) A47J 37/06
FRITZ, John	(51) A47J 31/44	A47J 45/06
(31) 201862749443 P	(11) EP4009839	(11) EP4079200
(32) 23.10.2018	(21) EP20732527.5	(21) EP22168799.9
(33) United States of America	(47) 13.09.2023	(47) 13.09.2023
(51) A47G 25/14	(87) EP2020065822	(22) 19.04.2022
A47G 25/86	11.02.2021	
B63C 11/04	(22) 08.06.2020	
B08B 9/00	(54) APPARATUS FOR HEATING AND FOAMING A LIQUID, IN PARTICULAR A BEVERAGE	
D06F 17/04	(73) Eversys S.A.	
D06F 41/00		

(54) AIR FRYER DRAWER AND AIR FRYER	B05B 11/04	(54) HAND-HELD VACUUM CLEANER
(73) Instant Brands Holdings Inc.	B65D 47/08	(73) Miele & Cie. KG
(72) HAN, Yude	G01F 11/08	(72) Geser, Willi
CHEN, Jianxin	G01F 11/16	Hanke, Martin
LIM, Justin	B05B 11/00	(31) 102019123101
LEPINSKE, Jason	B05B 1/28	102019121539
WANG, Hongyuan	(11) EP3314218	(32) 28.08.2019
HE, Guoying	(21) EP16818582.5	09.08.2019
(31) 202120815780 U	(47) 13.09.2023	(33) Germany
(32) 20.04.2021	(87) US2016039760	Germany
(33) China	05.01.2017	(51) A47L 5/36
(51) A47J 43/04	(22) 28.06.2016	A47L 9/28
G05B 19/04	(54) MEASURED DOSE DISPENSERS AND	A47L 9/00
(11) EP3792707	METHODS OF USING THE SAME	A47L 9/32
(21) EP18923347.1	(73) Silgan Dispensing Systems Slatersville	(11) EP4039147
(47) 13.09.2023	LLC	(21) EP22155062.7
(87) CN2018106698	(72) SKILLIN, Clifford	(47) 13.09.2023
26.12.2019	BRANNON, Patrick, J.	(22) 03.02.2022
(22) 20.09.2018	(31) 201514754252	(54) CANISTER-TYPE SUCTION ASSEMBLY
(54) COOKING METHOD, COOKING	PCT/US2016/032388	PROVIDED WITH A HATCH FOR
DEVICE, COOKING APPLIANCE, AND	(32) 29.06.2015	ACCESS TO A RECHARGEABLE
COMPUTER READABLE STORAGE	13.05.2016	BATTERY
MEDIUM	(33) United States of America	(73) SEB S.A.
(73) Foshan Shunde Midea Electrical Heating	World Intellectual Property Office (WIPO)	(72) DAVID, Fabien
Appliances Manufacturing Co., Limited	(51) A47K 10/24	COLLET, Romain
(72) SU, Ying	A47K 10/32	(31) 2101096
LI, Jing	A47K 10/38	(32) 05.02.2021
FANG, Zhen	B65D 83/08	(33) France
(31) 201810631044	B65D 85/67	(51) A47L 5/38
(32) 19.06.2018	B65D 25/00	A47L 7/00
(33) China	(11) EP3389461	A47L 9/10
(51) A47J 43/046	(21) EP15910931.3	A47L 9/12
(11) EP3850998	(47) 13.09.2023	A47L 9/32
(21) EP21160751.0	(87) US2015066411	(11) EP3419489
(47) 13.09.2023	22.06.2017	(21) EP17712418.7
(22) 08.06.2016	(22) 17.12.2015	(47) 13.09.2023
(54) FOOD PROCESSING APPARATUS AND	(54) DYNAMIC PRODUCT USE	(87) EP2017054533
METHOD	REPORTING SYSTEM FOR PRODUCT	31.08.2017
(73) SharkNinja Operating LLC	DISPENSERS	(22) 27.02.2017
(72) GOLINO, Amy L.	(73) Kimberly-Clark Worldwide, Inc.	(54) ACCESSORY FOR USE WITH VACUUM
SPILIOS, Vanessa H.	(72) WILLIAMS, Frederick J.	CLEANERS
(31) 201562172678 P	BECKER, Stephen	(73) Tyroc Industries Limited
(32) 08.06.2015	(51) A47K 10/44	(72) MALLON, Matthew Damian
(33) United States of America	B65H 1/12	(31) 201603417
(51) A47J 45/06	B65H 3/54	(32) 26.02.2016
A47J 45/00	G07B 3/04	(33) United Kingdom
A47J 43/28	A47K 10/36	(51) A47L 7/02
(11) EP3599959	(11) EP3565447	A47L 9/00
(21) EP18772365.5	(21) EP17700211.0	G06F 3/044
(47) 13.09.2023	(47) 13.09.2023	H03K 17/955
(87) CN2018079906	(87) EP2017050359	G05D 1/02
27.09.2018	12.07.2018	A47L 9/28
(22) 21.03.2018	(22) 09.01.2017	(11) EP3846668
(54) COOKWARE ARTICLE AND UTENSIL	(54) DISPENSER FOR SHEET PRODUCTS	(21) EP19857600.1
HANDLE	AND OPERATING METHOD	(47) 13.09.2023
(73) Meyer Intellectual Properties Limited	(73) Essity Hygiene and Health Aktiebolag	(87) US2019048403
(72) KWONG WAH, Lee	(72) BILLMAN, Craig	12.03.2020
(31) 201762474328 P	ELFSTRÖM, Boris Allan	(22) 27.08.2019
(32) 21.03.2017	ZERWECK, Jason	(54) MOBILE ROBOTS WITH INTELLIGENT
(33) United States of America	ZHANG, Rui	CAPACITIVE TOUCH SENSING
(51) A47K 5/122	MURPHY, Kevin	(73) iRobot Corporation
A47K 5/13	(51) A47L 5/22	(72) NEUMANN, Rogelio, Manfred
B65D 35/40	A47L 5/24	UNNINAYAR, Landon
B65D 35/50	A47L 9/00	GUO, Fangzheng
B65D 47/28	(11) EP3772309	ZHAI, Qingtai
G01F 11/04	(21) EP20187817.0	O'BRIEN, John, P.
G01F 11/28	(47) 13.09.2023	SCHRIESHEIM, Benjamin, H.
G01F 11/26	(22) 27.07.2020	GSCHREY, Travis

MODH, Milan	(31) 20150073156	(31) 201901831
(31) 201816121048	(32) 26.05.2015	(32) 11.02.2019
(32) 04.09.2018	(33) Korea (Republic)	(33) United Kingdom
(33) United States of America	(51) A47L 9/16	(51) A61B 1/00
(51) A47L 9/00	A47L 9/18	G02B 6/38
A47L 11/18	(11) EP3685724	A61B 5/00
A47L 11/40	(21) EP17925755.5	A61B 8/00
A47L 9/28	(47) 13.09.2023	A61B 8/12
(11) EP3562368	(87) KR2017011381	G02B 23/24
(21) EP17888517.4	28.03.2019	G02B 23/26
(47) 13.09.2023	(22) 16.10.2017	(11) EP3181035
(87) KR2017015470	(54) DUST COLLECTING APPARATUS AND	(21) EP15831728.9
05.07.2018	CLEANER HAVING SAME	(47) 13.09.2023
(22) 26.12.2017	(73) LG Electronics Inc.	(87) JP2015072764
(54) CLEANER	(72) HYUN, Kietak	18.02.2016
(73) LG Electronics Inc.	EO, Soohan	(22) 11.08.2015
(72) YOUK, Hyungkyu	LEE, Sangchul	(54) CONNECTION DEVICE AND IMAGING
KIM, Sangjo	(31) 20170122603	DEVICE PROVIDED WITH SAID
(31) 20160184441	(32) 22.09.2017	CONNECTION DEVICE
(32) 30.12.2016	(33) Korea (Republic)	(73) Terumo Kabushiki Kaisha
(33) Korea (Republic)	(51) A47L 11/30	(72) HORIIKE, Toyokazu
(51) A47L 9/02	A47L 11/40	(31) 2014165228
A47L 9/06	(11) EP3787465	(32) 14.08.2014
(11) EP3345523	(21) EP19780503.9	(33) Japan
(21) EP17202972.0	(47) 13.09.2023	(51) A61B 1/04
(47) 13.09.2023	(87) US2019052100	A61B 1/00
(22) 22.11.2017	26.03.2020	A61B 1/018
(54) VACUUM CLEANER AND FLOOR	(22) 20.09.2019	A61B 1/273
NOZZLE FOR VACUUM CLEANER	(54) PORTABLE EXTRACTOR	(11) EP3735165
(73) Miele & Cie. KG	(73) Techtronic Floor Care Technology Limited	(21) EP19703211.3
(72) Schneider, Jens	(72) QUINTERO, Juan, Aviles	(47) 13.09.2023
Cordes, Alexander	DEL TORO, Israel	(87) US2019012318
Behrenswerth, Martin	BODE, Donovan	11.07.2019
(31) 102017115523	IRFAN, Mohammed	(22) 04.01.2019
102017100346	(31) 201862734769 P	(54) FLUOROPHORE IMAGING DEVICES,
(32) 11.07.2017	(32) 21.09.2018	SYSTEMS, AND METHODS FOR AN
10.01.2017	(33) United States of America	ENDOSCOPIC PROCEDURE
(33) Germany	(51) A47L 13/16	(73) Boston Scientific Scimed Inc.
Germany	A47L 13/18	The Johns Hopkins University
(51) A47L 9/04	A47L 13/19	(72) POWERS, Jessica
A47L 9/02	(11) EP3806705	CALDWELL, Jacob
(11) EP3166464	(21) EP18804059.6	CHO, Sungmin R.
(21) EP15732896.4	(47) 13.09.2023	YAZDI, Youseph
(47) 13.09.2023	(87) GB2018053218	DURR, Nicholas J.
(87) GB2015051803	19.12.2019	PASRICHA, Pankaj J.
14.01.2016	(22) 06.11.2018	WEILER, Chad
(22) 19.06.2015	(54) DISSOLVABLE WET WIPE	NIMGAONKAR, Ashish
(54) FLOOR TOOL	(73) McCormack Innovation Limited	(31) 201862614266 P
(73) Techtronic Industries Co. Ltd.	(72) MCCORMACK, Brian James	(32) 05.01.2018
(72) NEWSOM, Guy Lawrence	(31) 202018002808 U	(33) United States of America
REYNOLDS, James David	(32) 15.06.2018	(51) A61B 1/045
WATERS, Richard David	(33) Germany	A61B 1/00
(31) 201412051	(51) A47L 15/00	G06T 7/00
(32) 07.07.2014	A47L 15/42	(11) EP3821789
(33) United Kingdom	A61B 90/70	(21) EP18926370.0
(51) A47L 9/10	A61L 2/00	(47) 13.09.2023
A47L 9/16	A47L 15/20	(87) JP2018025871
(11) EP3750461	(11) EP3923778	16.01.2020
(21) EP20181860.6	(21) EP19835827.7	(22) 09.07.2018
(47) 13.09.2023	(47) 13.09.2023	(54) TREATMENT ASSISTANCE DEVICE,
(22) 09.05.2016	(87) IL2019051358	TREATMENT ASSISTANCE METHOD,
(54) DUST COLLECTING APPARATUS FOR	20.08.2020	AND COMPUTER-READABLE
VACUUM CLEANER AND VACUUM	(22) 11.12.2019	RECORDING MEDIUM
CLEANER INCLUDING SAME	(54) SPRAY ASSEMBLY AND	(73) NEC Corporation
(73) LG Electronics Inc.	REPLACEABLE DETERGENT	(72) SAIKOU, Masahiro
(72) WOO, Seyoung	CONTAINER FOR DISHWASHER	(51) A61B 3/00
PYO, Joonho	(73) DEEAY TECHNOLOGIES LTD.	H04N 13/307
EO, Soohan	(72) KAFZAN, Abraham	A61B 3/028



G02B 27/00	(73) Carl Zeiss Vision International GmbH	30.11.2017
G02B 30/00	(72) LEUBE, Alexander	(22) 06.04.2017
G09G 3/00	STRASSER, Torsten	(54) A SKIN INSPECTION DEVICE FOR IDENTIFYING ABNORMALITIES
G09G 5/391	OHLENDORF, Arne	(73) Bluedrop Medical Ltd
G06T 5/00	ZRENNER, Eberhart	(72) MURPHY, Chris
G06T 5/50	WAHL, Siegfried	CORLEY, Gavin
G06F 1/16	(31) 20172146	KIERSEY, Simon
A61B 1/00	(32) 29.04.2020	(31) 201609031
(11) EP3761848	(33) European Patent Office (EPO)	(32) 23.05.2016
(21) EP19765123.5	(51) A61B 3/16	(33) United Kingdom
(47) 13.09.2023	A61F 2/14	(51) A61B 5/00
(87) IB2019051871	A61F 2/16	A61B 5/024
12.09.2019	A61F 9/00	(11) EP3984449
(22) 08.03.2019	A61F 9/007	(21) EP21203425.0
(54) VISION CORRECTION SYSTEM AND METHOD, LIGHT FIELD DISPLAY AND LIGHT FIELD SHAPING LAYER AND ALIGNMENT THEREFOR	(11) EP3334329	(47) 13.09.2023
(73) Evolution Optiks Limited	(21) EP16837558.2	(22) 19.10.2021
(72) GOTTSCH, Daniel	(47) 13.09.2023	(54) SYSTEM AND METHOD FOR DETERMINING HEART BEAT FEATURES
(31) 3022719	(87) US2016046652	(73) Harman Becker Automotive Systems GmbH
3021636	23.02.2017	(72) FILIMONOV, Andrey Viktorovich
2997885	(22) 12.08.2016	SHISHALOV, Ivan Sergeevich
2997884	(54) OCULAR IMPLANT WITH PRESSURE SENSOR	ERSHOV, Roman Aleksandrovich
2997883	(73) Alcon Inc.	SHILOV, Andrey Sergeevich
201916259845	(72) VAN METER, David Theodore	(31) PCT/RU2020/000555
(32) 31.10.2018	GALT, Kenneth M.	(32) 19.10.2020
22.10.2018	(31) 201562205588 P	(33) World Intellectual Property Office (WIPO)
09.03.2018	(32) 14.08.2015	(51) A61B 5/00
09.03.2018	(33) United States of America	A61B 5/08
28.01.2019	(51) A61B 5/00	A61M 16/00
(33) Canada	(11) EP3703556	G16H 20/40
Canada	(21) EP18874368.6	G16H 40/63
Canada	(47) 13.09.2023	A61M 16/10
Canada	(87) US2018058290	(11) EP3068286
United States of America	09.05.2019	(21) EP14799960.1
(51) A61B 3/10	(22) 30.10.2018	(47) 13.09.2023
A61B 3/113	(54) CUSTOMIZABLE PATCHES	(87) DK2014050387
(11) EP3313262	(73) LifeSignals, Inc.	21.05.2015
(21) EP16733939.9	(72) MAGAR, Surendar	(22) 14.11.2014
(47) 13.09.2023	(31) 201762579309 P	(54) DECISION SUPPORT SYSTEM FOR LUNG VENTILATOR SETTINGS
(87) EP2016065054	(32) 31.10.2017	(73) Covidien LP
05.01.2017	(33) United States of America	(72) REES, Stephen Edward
(22) 28.06.2016	(51) A61B 5/00	KARBING, Dan Stieper
(54) PURKINJE METER AND METHOD FOR AUTOMATIC EVALUATION	(11) EP3785606	(31) 201370690
(73) JANUNTS HOLDING UG	(21) EP19812005.7	(32) 15.11.2013
(72) JANUNTS, Edgar	(47) 13.09.2023	(33) Denmark
PUTZU, Dominic	(87) JP2019019140	(51) A61B 5/00
KESSELHEIM-VAN BELLEN, Janine	05.12.2019	A61B 5/145
MÖLLER, Michael	(22) 14.05.2019	A61B 5/1455
LANGENBUCHER, Achim	(54) ANALYSIS DEVICE, ANALYSIS METHOD, AND ANALYSIS PROGRAM	A61B 5/01
(31) 102015110456	(73) NIPPON TELEGRAPH AND TELEPHONE CORPORATION	(11) EP3624679
(32) 29.06.2015	(72) SAISHO, Osamu	(21) EP18735732.2
(33) Germany	TSUKADA, Shingo	(47) 13.09.2023
(51) A61B 3/103	TANAKA, Kentaro	(87) US2018033695
A61B 3/032	NAKAYAMA, Makoto	22.11.2018
(11) EP4142570	OKADA, Takashi	(22) 21.05.2018
(21) EP21721125.9	(31) 2018106524	(54) GLUCOSE CONCENTRATION NIR MONITORING APPARATUSES AND METHODS
(47) 13.09.2023	(32) 01.06.2018	(73) GlucoVista Inc.
(87) EP2021061148	(33) Japan	(72) GERLITZ, Yonatan
04.11.2021	(51) A61B 5/00	(31) 201762508880 P
(22) 28.04.2021	A61B 5/01	(32) 19.05.2017
(54) METHOD AND DEVICE FOR DETERMINING A REFRACTIVE ERROR	G01G 19/50	(33) United States of America
	A61B 5/103	(51) A61B 5/00
	(11) EP3463048	
	(21) EP17715933.2	
	(47) 13.09.2023	
	(87) EP2017058294	

A61B 5/145	(32) 18.02.2015	(47) 13.09.2023
A61B 5/1486	(33) United States of America	(22) 12.02.2018
(11) EP4119042	(51) A61B 5/00	(54) BODY IMPEDANCE MEASUREMENT APPARATUS AND METHOD
(21) EP22194686.6	H04M 1/72463	(73) Nokia Technologies Oy
(47) 13.09.2023	A61B 5/05	(72) MATIC, Tomislav
(22) 21.12.2016	A61B 5/0522	HERCEG, Marijan
(54) TRANSCUTANEOUS ANALYTE SENSOR SYSTEMS	A61B 5/024	JOB, Josip
(73) Dexcom, Inc.	A61B 5/08	GRBIC, Ratko
(72) HALAC, Jason	(11) EP4125553	(51) A61B 5/11
GRAY, John Michael	(21) EP21713437.8	A61B 5/00
JOHNSTON, Neal Davis	(47) 13.09.2023	(11) EP3809966
ENGLAND, Justen Deering	(87) EP2021057860	(21) EP19739754.0
SIMPSON, Peter C.	07.10.2021	(47) 13.09.2023
NEALE, Paul V.	(22) 26.03.2021	(87) US2019036981
BLACKWELL, Jennifer	(54) CONTROLLER AND METHOD FOR SWITCHING BETWEEN SENSING AND NON-SENSING MODES IN THE CONTEXT OF A PORTABLE HANDHELD DEVICE ASSOCIATED WITH THE INDUCTIVE SENSING.	26.12.2019
WELLS, Maria Noel Brown	(73) Koninklijke Philips N.V.	(22) 13.06.2019
PIRONDINI, Kenneth	(72) PEETERS, Wouter, Herman	(54) EXTENDED REALITY VISUALIZATION OF RANGE OF MOTION
REINHARDT, Andrew Michael	STEUNEBRINK, Tim, Patrick	(73) Howmedica Osteonics Corp.
KEMPKEY, Mark Douglas	HARBERTS, Dirk, Willem	(72) POLTARETSKYI, Sergii
(31) 201662412100 P	DOODEMAN, Gerardus, Johannes, Nicolaas	CHAQUI, Jean
201562272983 P	VERNOOIJ, Carlijn, Andrea	CARIOU, Damien
(32) 24.10.2016	(31) 20167495	MAILLÉ, Florence Delphine Muriel
30.12.2015	(32) 01.04.2020	URVOY, Manuel Jean-Marie
(33) United States of America	(33) European Patent Office (EPO)	SIMOES, Vincent Abel Maurice
United States of America	(51) A61B 5/00	(31) 201962804383 P
(51) A61B 5/00	A61B 5/1455	201962804402 P
A61B 5/1455	A61B 5/24	201962804392 P
(11) EP3030137	(11) EP4039182	201862778791 P
(21) EP14742533.4	(21) EP20930666.1	201862778782 P
(47) 13.09.2023	(47) 13.09.2023	201862778796 P
(87) EP2014065997	(87) CN2020135009	201862778772 P
12.02.2015	16.06.2022	201862778760 P
(22) 25.07.2014	(22) 09.12.2020	201862778788 P
(54) SYSTEM AND METHOD FOR EXTRACTING PHYSIOLOGICAL INFORMATION FROM REMOTELY DETECTED ELECTROMAGNETIC RADIATION	(54) BLOOD PRESSURE MEASUREMENT METHOD AND APPARATUS, AND ELECTRONIC DEVICE	201862778778 P
(73) Koninklijke Philips N.V.	(73) SHENZHEN GOODIX TECHNOLOGY CO., LTD.	201862778797 P
(72) DE HAAN, Gerard	(72) LI, Huafei	201862778764 P
(31) 201361862565 P	(51) A61B 5/021	201862778789 P
13179563	A61B 5/026	201862778774 P
(32) 06.08.2013	A61B 5/145	201862739406 P
07.08.2013	G16H 50/20	(32) 12.02.2019
(33) United States of America	(11) EP3554354	12.02.2019
European Patent Office (EPO)	(21) EP17883981.7	12.02.2019
(51) A61B 5/00	(47) 13.09.2023	12.12.2018
A61M 25/00	(87) CA2017051533	12.12.2018
A61B 17/22	28.06.2018	12.12.2018
A61B 18/04	(22) 19.12.2017	12.12.2018
A61B 18/14	(54) SYSTEM AND METHOD FOR CONTACTLESS BLOOD PRESSURE DETERMINATION	12.12.2018
A61B 18/00	(73) Nuralogix Corporation	01.10.2018
(11) EP3258835	(72) LEE, Kang	19.06.2018
(21) EP16753064.1	KABAKOV, Evgueni	(33) United States of America
(47) 13.09.2023	LEVY, Phil	United States of America
(87) US2016018482	(31) 201662435942 P	United States of America
25.08.2016	(32) 19.12.2016	United States of America
(22) 18.02.2016	(33) United States of America	United States of America
(54) RADIOFREQUENCY GUIDEWIRE WITH CONTROLLED PLASMA GENERATION	(51) A61B 5/053	United States of America
(73) Retrovascular, Inc.	(11) EP3524147	United States of America
(72) OGATA, Wayne	(21) EP18156204.2	United States of America
GU, Xiang lan		United States of America
MEYER, Steven		United States of America
KATO, Osamu		United States of America
(31) 201562117828 P		United States of America

United States of America	(51) A61B 5/1473	(22) 31.01.2017
United States of America	C08L 39/06	(54) MACHINE LEARNT MODEL TO
United States of America	G01N 27/327	DETECT REM SLEEP PERIODS USING
United States of America	C08L 75/04	A SPECTRAL ANALYSIS OF HEART
United States of America	C12N 11/08	RATE AND MOTION
United States of America	C08G 18/44	(73) Verily Life Sciences LLC
(51) A61B 5/11	C08G 18/40	(72) SHIMOL, David Ben
G06F 3/01	C08G 18/38	SHOEB, Ali
A61B 5/282	C08G 18/12	(31) 201662289796 P
A61B 5/291	C08G 18/08	(32) 01.02.2016
A61B 5/296	A61K 33/00	(33) United States of America
A61B 5/305	C12Q 1/00	(51) A61B 5/318
(11) EP2959831	C08G 18/75	A61B 5/00
(21) EP15171760.0	C08G 18/48	A61B 18/12
(47) 13.09.2023	A61B 5/145	(11) EP3518739
(22) 12.06.2015	A61K 38/28	(21) EP17777049.2
(54) BIOELECTRODE	A61B 5/00	(47) 13.09.2023
(73) Samsung Electronics Co., Ltd.	A61B 5/1486	(87) EP2017074728
SNU R&DB Foundation	C12N 11/089	05.04.2018
(72) Kim, Youn Ho	C12N 11/093	(22) 28.09.2017
Kim, Jee Hoon	(11) EP3397163	(54) PATIENT MONITORING APPARATUS
Park, Kwang Suk	(21) EP16882712.9	(73) Koninklijke Philips N.V.
Lee, Jeong Su	(47) 13.09.2023	(72) VOLLMER, Thomas
Lim, Yong Gyu	(87) US2016069342	(31) 16191086
(31) 20140076780	06.07.2017	(32) 28.09.2016
(32) 23.06.2014	(22) 29.12.2016	(33) European Patent Office (EPO)
(33) Korea (Republic)	(54) DIFFUSION RESISTANCE LAYER FOR	(51) A61B 6/00
(51) A61B 5/145	ANALYTE SENSORS	G01N 23/087
A61B 5/00	(73) DexCom, Inc.	G01T 1/00
(11) EP3858237	(72) ZOU, Jiong	H04N 5/32
(21) EP19864045.0	BOOCK, Robert, J.	(11) EP3769686
(47) 13.09.2023	DENNIS, Andrew, Trinin	(21) EP19770964.5
(87) KR2019007487	LEE, Ted, Tang	(47) 13.09.2023
02.04.2020	SURI, Jeff, T.	(87) JP2019003593
(22) 21.06.2019	SZE, David	26.09.2019
(54) SENSOR MEMBER FOR CONTINUOUS	TAPSAK, Mark, A.	(22) 01.02.2019
BLOOD GLUCOSE MEASUREMENT	WANG, Shanger	(54) PHOTOGRAPHY CONTROL DEVICE,
(73) i-Sens, Inc.	ZHANG, Huashi	PHOTOGRAPHY CONTROL METHOD,
(72) JEONG, In Seok	(31) 201562273142 P	RADIOGRAPHY SYSTEM, AND
KANG, Young Jea	201562273155 P	PROGRAM
GWAK, Su Min	201562273219 P	(73) Canon Kabushiki Kaisha
LEE, Su Jin	(32) 30.12.2015	(72) IWASHITA, Atsushi
LEE, Seok Won	30.12.2015	TSUKUDA, Akira
(31) 20180114826	30.12.2015	TERUI, Kosuke
(32) 27.09.2018	(33) United States of America	TORII, Sota
(33) Korea (Republic)	United States of America	NODA, Takeshi
(51) A61B 5/145	United States of America	(31) 2018052916
A61M 5/172	(51) A61B 5/287	(32) 20.03.2018
A61B 5/00	A61B 5/00	(33) Japan
G16H 20/17	A61B 18/14	(51) A61B 6/02
G16H 40/63	A61M 25/00	G06T 11/00
G16H 50/20	(11) EP3949844	A61B 6/00
A61M 5/142	(21) EP19920877.8	A61B 6/03
(11) EP3515307	(47) 13.09.2023	(11) EP3738513
(21) EP17783918.0	(87) JP2019012621	(21) EP19174256.8
(47) 13.09.2023	01.10.2020	(47) 13.09.2023
(87) FR2017052511	(22) 25.03.2019	(22) 14.05.2019
29.03.2018	(54) CATHETER	(54) SYSTEM AND METHOD FOR
(22) 19.09.2017	(73) Japan Lifeline Co., Ltd.	RECORDING POSITIONAL
(54) AUTOMATED SYSTEM FOR	(72) SASAKI Takuya	INFORMATION OF MOVING IMAGE
CONTROLLING THE BLOOD	(51) A61B 5/316	MODALITY COMPONENTS AT THE
GLUCOSE LEVEL OF A PATIENT	A61B 5/11	EXACT ACQUISITION MOMENTS OF
(73) Commissariat à l'énergie atomique et aux	A61B 5/00	A TOMOGRAPHIC IMAGE CAPTURE
énergies alternatives	(11) EP3410924	SEQUENCE
(72) JALLON, Pierre	(21) EP17704925.1	(73) AGFA NV
(31) 1658881	(47) 13.09.2023	(72) HUJER, Oskar
(32) 21.09.2016	(87) US2017015860	(51) A61B 6/03
(33) France	10.08.2017	A61B 5/00

G06T 7/00	31.01.2019	(47) 13.09.2023
G06T 7/136	(22) 27.07.2018	(87) FR2016050218
(11) EP3664027	(54) DIRECTIONAL BALLOON	11.08.2016
(21) EP18840523.7	TRANSSEPTAL INSERTION DEVICE	(22) 02.02.2016
(47) 13.09.2023	FOR MEDICAL PROCEDURES	(54) MICRODEVICE FOR THE IN VIVO
(87) ES2018070539	(73) East End Medical LLC	CAPTURE OF CIRCULATING
07.02.2019	(72) MAINI, Brijeshwar S.	CALLULAR BIOMARKERS
(22) 30.07.2018	(31) 201762592061 P	(73) Centre National de la Recherche
(54) METHOD FOR PREDICTING OR	201762538552 P	Scientifique
PROGNOSTICATING THE RISK	(32) 29.11.2017	Centre Hospitalier Universitaire De
OF DEATH OR VASOSPASM IN A	28.07.2017	Toulouse
PATIENT WITH A SUBARACHNOID	(33) United States of America	Université Paul Sabatier Toulouse III
HEMORRHAGE	United States of America	(72) CERF, Aline
(73) Servicio Andaluz de Salud	(51) A61B 8/00	SANSON, Sylvain
(72) EGEA GUERRERO, Juan José	G01S 7/00	CAYRON, Hélène
BALCERZYK, Marcin Wojciech	H01R 13/00	JIMENEZ, Alejandro Kayum
(31) 201730998	(11) EP3056152	VIEU, Christophe
(32) 31.07.2017	(21) EP15169411.4	MALAVAUD, Bernard
(33) Spain	(47) 13.09.2023	(31) 1550806
(51) A61B 6/14	(22) 27.05.2015	(32) 02.02.2015
A61B 6/00	(54) ULTRASOUND IMAGING APPARATUS	(33) France
G01T 1/20	AND METHOD OF CONTROLLING THE	(51) A61B 10/02
(11) EP3677187	SAME	A61M 39/02
(21) EP18850452.6	(73) Samsung Medison Co., Ltd.	A61B 17/16
(47) 13.09.2023	(72) Lee, Sang-Mok	A61B 17/68
(87) JP2018031359	Kim, Nam-Woong	A61B 17/86
07.03.2019	Lee, Hong-Gyo	A61B 17/34
(22) 24.08.2018	(31) 20150021964	(11) EP3841984
(54) INTRAORAL SENSOR AND METHOD	(32) 13.02.2015	(21) EP21157097.3
FOR PRODUCING INTRAORAL	(33) Korea (Republic)	(47) 13.09.2023
SENSOR	(51) A61B 8/08	(22) 03.10.2017
(73) Hamamatsu Photonics K.K.	G06T 7/00	(54) BONE MARROW ACCESS APPARATUS
(72) MIYAGUCHI, Kazuhisa	(11) EP3854313	AND SYSTEM INCLUDING SAME
KITAMURA, Shigehiro	(21) EP21152799.9	(73) Aperture Medical Technology LLC
(31) 2017165259	(47) 13.09.2023	(72) RIOUX, Bob
(32) 30.08.2017	(22) 21.01.2021	JABER, Khoder
(33) Japan	(54) ULTRASOUND DIAGNOSTIC	(31) 201715486870
(51) A61B 8/00	APPARATUS AND METHOD OF	201715486886
(11) EP3513734	CONTROLLING THE SAME	201662404551 P
(21) EP18206964.1	(73) Samsung Medison Co., Ltd.	(32) 13.04.2017
(47) 13.09.2023	(72) KIM, Kang Sik	13.04.2017
(22) 19.11.2018	KIM, Jung Ho	05.10.2016
(54) ULTRASONIC IMAGING APPARATUS	YOO, Yang Mo	(33) United States of America
AND CONTROL METHOD THEREOF	KANG, Jin Bum	United States of America
(73) Samsung Medison Co., Ltd.	HAN, Kang Hee	United States of America
(72) SONG, In Seong	(31) 20200008399	(51) A61B 17/00
LEE, Jong Mok	(32) 22.01.2020	A61B 17/04
OH, Won Gee	(33) Korea (Republic)	A61B 17/064
(31) 20180005330	(51) A61B 10/00	A61B 17/08
(32) 16.01.2018	A61B 10/02	A61F 2/24
(33) Korea (Republic)	(11) EP3463101	(11) EP3606444
(51) A61B 8/00	(21) EP17803595.2	(21) EP18781785.3
A61B 17/34	(47) 13.09.2023	(47) 13.09.2023
A61B 18/14	(87) US2017034505	(87) US2018025971
A61M 25/00	30.11.2017	11.10.2018
A61B 8/12	(22) 25.05.2017	(22) 03.04.2018
A61B 8/08	(54) BIOPSY NEEDLE DESIGN	(54) TRANSCATHETER ATRIAL SEALING
A61M 25/06	(73) 3DBiopsy, Inc.	SKIRT, ANCHOR, AND TETHER
A61M 25/10	(72) STONE, Nelson	(73) Opus Medical Therapies, LLC
A61M 29/00	SCHECHTER, David	(72) RAJAGOPAL, Vivek
A61B 17/00	GOETZ, Joshua	SARABIA, Jaime Eduardo
A61B 17/22	CROWLEY, Timothy	LIAO, Yenchin
A61B 90/00	(31) 201662341292 P	(31) 201762558315 P
A61B 18/00	(32) 25.05.2016	201762509587 P
(11) EP3658036	(33) United States of America	201762481846 P
(21) EP18756031.3	(51) A61B 10/02	(32) 13.09.2017
(47) 13.09.2023	(11) EP3253295	22.05.2017
(87) US2018044143	(21) EP16705251.3	05.04.2017

(33) United States of America United States of America United States of America	A61F 2/08 (11) EP3886727 (21) EP19821152.6 (47) 13.09.2023 (87) GB2019053385 04.06.2020	YATES, David C. HARRIS, Jason L. (31) 201715628050 (32) 20.06.2017 (33) United States of America
(51) A61B 17/00 A61B 17/22 (11) EP3897397 (21) EP19842505.0 (47) 13.09.2023 (87) US2019067835 25.06.2020 (22) 20.12.2019 (54) SKULL BASE CLOSURE SYSTEMS (73) Stryker European Operations Limited (72) CUSHEN, Patrick Eoin JACOBS, Johannes Jacobus (31) 201862782718 P (32) 20.12.2018 (33) United States of America	(22) 29.11.2019 (54) IMPLANT ASSEMBLY AND ASSOCIATED METHODS OF MANUFACTURING (73) Xiros Limited (72) SEEDHOM, Bahaa Botros ROBINSON, Corey James PIOTROWSKI, Michal (31) 201819426 (32) 29.11.2018 (33) United Kingdom	(51) A61B 17/072 A61B 90/00 (11) EP3730068 (21) EP20171313.8 (47) 13.09.2023 (22) 24.04.2020 (54) TISSUE CUTTING WASHER FOR RIGHT ANGLE SURGICAL STAPLER (73) Ethicon LLC (72) SIMMS, Robert J. (31) 201916395357 (32) 26.04.2019 (33) United States of America
(51) A61B 17/00 A61B 17/34 A61M 1/36 A61M 25/00 A61M 25/01 (11) EP3528711 (21) EP17862286.6 (47) 13.09.2023 (87) US2017056843 26.04.2018 (22) 17.10.2017 (54) TRANSSEPTAL INSERTION DEVICE (73) East End Medical LLC (72) MAINI, Brijeshwar S. (31) 201715784792 201662409448 P (32) 16.10.2017 18.10.2016 (33) United States of America United States of America	(51) A61B 17/00 A61B 17/00 (11) EP3735912 (21) EP20172962.1 (47) 13.09.2023 (22) 05.05.2020 (54) SURGICAL STAPLING DEVICE (73) Covidien LP (72) HODGKINSON, Gerald N. SOLTZ, Michael A. HUSSAINI, Sulaiman SEDLIK, Souad (31) 202016839332 201962844870 P (32) 03.04.2020 08.05.2019 (33) United States of America United States of America	(51) A61B 17/12 (11) EP3393373 (21) EP16877021.2 (47) 13.09.2023 (87) AU2016051288 29.06.2017 (22) 23.12.2016 (54) MULTIBAND LIGATION DEVICE (73) Horten Medical Pty Ltd (72) TAFFA, Mark PROFACA, Mark CROSTON, Thomas Robert SHORES, Daniel Thomas SOKOLOV, Richard (31) 2015905345 (32) 23.12.2015 (33) Australia
(51) A61B 17/02 A61B 90/00 A61B 34/30 A61B 34/10 A61B 34/20 A61B 90/96 G06N 3/044 G06N 3/08 A61B 5/11 A61B 34/00 A61B 90/50 (11) EP3897400 (21) EP19842957.3 (47) 13.09.2023 (87) US2019067848 25.06.2020 (22) 20.12.2019 (54) ACTUATED RETRACTOR WITH TENSION FEEDBACK (73) Smith & Nephew, Inc. Smith & Nephew Asia Pacific Pte. Limited Smith & Nephew Orthopaedics AG (72) CORPA DE LA FUENTE, Cedric NIKOU, Constantinos JARAMAZ, Branislav (31) 201862783981 P (32) 21.12.2018 (33) United States of America	(51) A61B 17/072 A61B 17/00 A61B 17/29 A61B 90/00 (11) EP3417795 (21) EP17209285.0 (47) 13.09.2023 (22) 21.12.2017 (54) SYSTEM FOR CONTROLLING MOTOR VELOCITY OF A SURGICAL STAPLING AND CUTTING INSTRUMENT (73) Ethicon LLC (72) SHELTON, IV, Frederick E. YATES, David C. HARRIS, Jason L. (31) 201715628075 (32) 20.06.2017 (33) United States of America	(51) A61B 17/12 A61L 24/04 A61K 31/722 A61L 31/04 A61L 31/14 A61L 31/18 (11) EP3528714 (21) EP17787748.7 (47) 13.09.2023 (87) US2017055223 26.04.2018 (22) 05.10.2017 (54) INJECTABLE SCAFFOLD FOR TREATMENT OF INTRACRANIAL ANEURYSMS (73) Covidien LP (72) LI, Junwei GIRDHAR, Gaurav WAINWRIGHT, John BAYON, Yves PAGANI, Ariana (31) 201615299929 (32) 21.10.2016 (33) United States of America
(51) A61B 17/04	(51) A61B 17/072 A61B 17/29 A61B 17/00 A61B 90/00 (11) EP3417794 (21) EP17209260.3 (47) 13.09.2023 (22) 21.12.2017 (54) SYSTEM FOR CONTROLLING MOTOR VELOCITY OF A SURGICAL STAPLING AND CUTTING INSTRUMENT ACCORDING TO ARTICULATION ANGLE OF END EFFECTOR (73) Ethicon LLC (72) SHELTON, IV, Frederick E.	(51) A61B 17/12 A61M 25/00 (11) EP2244666 (21) EP09712576.9 (47) 13.09.2023 (87) US2009033717 27.08.2009 (22) 11.02.2009

(54) MEDICAL DEVICES FOR TREATING A TARGET SITE	01.05.2018	United States of America
(73) AGA Medical Corporation	01.05.2018	United States of America
(72) DRILLING, Sarah, E.	01.05.2018	United States of America
OSLUND, John, C.	01.05.2018	United States of America
GLIMSDALE, Mathias, C.	19.04.2018	United States of America
GU, Xiaoping	28.03.2018	
(31) 66170 P	28.03.2018	(51) A61B 17/132
(32) 19.02.2008	28.03.2018	A61B 17/135
(33) United States of America	28.03.2018	A61B 17/00
(51) A61B 17/128	28.03.2018	(11) EP3434204
(11) EP3703590	28.03.2018	(21) EP17770282.6
(21) EP18807479.3	28.03.2018	(47) 13.09.2023
(47) 13.09.2023	28.03.2018	(87) JP2017011485
(87) US2018057945	28.03.2018	28.09.2017
09.05.2019	28.03.2018	(22) 22.03.2017
(22) 29.10.2018	28.03.2018	(54) HEMOSTATIC INSTRUMENT
(54) CLIP APPLIER COMPRISING A RECIPROCATING CLIP ADVANCING MEMBER	28.03.2018	(73) Terumo Kabushiki Kaisha
(73) Ethicon LLC	28.02.2018	(72) HAZAMA, Kenichi
(72) SHELTON, Frederick, E., IV	28.02.2018	(31) 2016058217
BAKOS, Gregory, J.	28.02.2018	(32) 23.03.2016
STOKES, Michael, J.	28.02.2018	(33) Japan
SCOTT, Gregory, G.	28.02.2018	(51) A61B 17/15
(31) 201816172128	28.02.2018	A61B 17/17
201862750539 P	28.12.2017	(11) EP3437572
201816112237	28.12.2017	(21) EP18196933.8
201862665192 P	30.10.2017	(47) 13.09.2023
201862665139 P	30.10.2017	(22) 04.03.2016
201862665129 P	30.10.2017	(54) SURGICAL INSTRUMENTATION ASSEMBLY FOR POSITIONING AN ANKLE PROSTHESIS
201862665177 P	30.10.2017	(73) Howmedica Osteonics Corp.
201862665128 P	30.10.2017	(72) MAULDIN, Garret
201862665134 P	30.10.2017	BRUNNARIUS, Yann
201862659900 P	30.10.2017	HENRY, Delphine
201862649333 P	(33) United States of America	(31) 201562129593 P
201862649320 P	United States of America	(32) 06.03.2015
201862649313 P	United States of America	(33) United States of America
201862649310 P	United States of America	(51) A61B 17/16
201862649307 P	United States of America	A61B 17/32
201862649300 P	United States of America	A61B 17/22
201862649291 P	United States of America	(11) EP3781049
201862649315 P	United States of America	(21) EP19788288.9
201862649296 P	United States of America	(47) 13.09.2023
201862649309 P	United States of America	(87) US2019028172
201862649323 P	United States of America	24.10.2019
201862649302 P	United States of America	(22) 18.04.2019
201862649327 P	United States of America	(54) ULTRASONIC SURGICAL DRILL ASSEMBLY
201862649294 P	United States of America	(73) Misonix, Incorporated
201815908058	United States of America	(72) VOIC, Dan
201815908143	United States of America	MIKUS, Paul
201815908057	United States of America	(31) 201862660625 P
201815908021	United States of America	(32) 20.04.2018
201815908040	United States of America	(33) United States of America
201815908012	United States of America	(51) A61B 17/17
201762611341 P	United States of America	A61B 17/15
201762611339 P	United States of America	(11) EP3251619
201762611340 P	United States of America	(21) EP17166642.3
201762578844 P	United States of America	(47) 13.09.2023
201762578817 P	United States of America	(22) 28.12.2010
201762578793 P	United States of America	(54) CUSTOMIZED SURGICAL GUIDES AND METHODS FOR MANUFACTURING THEREOF
201762578855 P	United States of America	(73) Materialise NV
201762578804 P	United States of America	(72) GELAUDE, Frederik
201762578835 P	United States of America	CLIJMANS, Tim
(32) 26.10.2018	United States of America	(31) 0922640
25.10.2018	United States of America	290673 P
24.08.2018	United States of America	
01.05.2018	United States of America	

(32) 29.12.2009	(11) EP3632356	MASSIMINI, Daniel Frank
29.12.2009	(21) EP19201085.8	HILSE, Mark A.
(33) United Kingdom	(47) 13.09.2023	(31) 201862636113 P
United States of America	(22) 02.10.2019	(32) 27.02.2018
(51) A61B 17/17	(54) REUSABLE ULTRASONIC	(33) United States of America
A61B 17/88	TRANSDUCER AND GENERATOR	(51) A61B 17/34
A61B 17/90	ASSEMBLIES, SURGICAL	A61B 10/02
(11) EP4066754	INSTRUMENTS INCLUDING	A61M 5/32
(21) EP20828993.4	THE SAME, AND METHODS OF	(11) EP3821833
(47) 13.09.2023	MANUFACTURING THE SAME	(21) EP19835034.0
(87) ES2020070740	(73) Covidien LP	(47) 13.09.2023
03.06.2021	(72) LEE, Weng-Kai, K.	(87) ES2019070479
(22) 26.11.2020	CLIFTON, Michael	16.01.2020
(54) SURGICAL GUIDING DEVICE FOR	FAGAN, James, R.	(22) 09.07.2019
BONE PERFORATION DURING	HORTON, Titus	(54) DEVICE FOR INTRAOSSEOUS
OSTEOSYNTHESIS PROCESSES,	MALANG, Keith, W	NEEDLE REMOVAL
ESPECIALLY FOR CORONOID	NETZEL, Kenneth, E.	(73) Escuela Universitaria de Enfermería y
FRACTURES OF THE ULNA	SIMMONS, Daniel	Fisioterapia San Juan de Dios. Orden
(73) Administración General de la Comunidad	TSCHUDY, Christopher, T.	Hospitalaria de San Juan de Dios
Autónoma de Euskadi	VAN TOL, David, J.	Universidad Pontificia Comillas
(72) CEARRA GUEZURAGA, Iñigo	(31) 201916577060	(72) DE LA TORRE MONTERO, Julio César
(31) 201931040	201862740647 P	(31) 201830688
(32) 26.11.2019	(32) 20.09.2019	(32) 10.07.2018
(33) Spain	03.10.2018	(33) Spain
(51) A61B 17/22	(33) United States of America	(51) A61B 17/34
A61B 17/3207	United States of America	A61F 2/18
(11) EP4054445	(51) A61B 17/32	A61F 5/08
(21) EP20816409.5	A61B 17/22	A61B 17/24
(47) 13.09.2023	A61B 17/29	A61M 5/158
(87) EP2020081386	(11) EP3936066	(11) EP3352690
14.05.2021	(21) EP21192430.3	(21) EP16849769.1
(22) 06.11.2020	(47) 13.09.2023	(47) 13.09.2023
(54) ENDOVASCULAR APPARATUS	(22) 17.04.2015	(87) US2016053480
(73) Versono Medical Limited	(54) ULTRASONIC SURGICAL	30.03.2017
(72) DOLAN, Finbar	INSTRUMENT WITH END EFFECTOR	(22) 23.09.2016
O'DONOGHUE, Hugh	HAVING RESTRICTED ARTICULATION	(54) NASAL IMPLANTS
MOONEY, Ivan	(73) Ethicon LLC	(73) Spirox, Inc.
CONNOLLY, Pat	(72) ALDRIDGE, Jeffrey L.	(72) BARON, Scott, J.
SMEDLEY, Jim	DICKERSON, Benjamin D.	ROSENTHAL, Michael, H.
TARPEY, Brian	FALLER, Craig N.	DOMECUS, Brian
(31) 202006665	FOX, William D.	ARORA, Piyush
PCT/EP2019/080449	MONROE, David A.	MIRIZZI, Michael, Stephan
(32) 05.05.2020	STOKES, Michael J.	GIOTRA, Rohit, Kulbhushan
06.11.2019	WEISENBURGH, II, William B.	(31) 201562233155 P
(33) United Kingdom	WORRELL, Barry C.	(32) 25.09.2015
World Intellectual Property Office (WIPO)	OLSON, William A.	(33) United States of America
(51) A61B 17/221	STULEN, Foster B.	(51) A61B 17/34
A61B 17/3207	(31) 201514688692	A61M 13/00
A61F 2/01	201462176880 P	A61B 18/00
(11) EP3536252	(32) 16.04.2015	(11) EP3810238
(21) EP18210248.3	22.04.2014	(21) EP19823542.6
(47) 13.09.2023	(33) United States of America	(47) 13.09.2023
(22) 05.03.2014	United States of America	(87) US2019035709
(54) A CLOT RETRIEVAL DEVICE FOR	(51) A61B 17/3207	26.12.2019
REMOVING OCCLUSIVE CLOT FROM	G05B 11/28	(22) 06.06.2019
A BLOOD VESSEL	A61B 34/00	(54) SURGICAL GAS DELIVERY SYSTEM
(73) Neuravi Limited	(11) EP3758627	WITH REMOTE GASEOUS SEALING
(72) BRADY, Eamon	(21) EP19710882.2	MODULE AND GAS SEALED SLEEVE
CASEY, Brendan	(47) 13.09.2023	FOR ACCESSING A SURGICAL CAVITY
GILVARRY, Michael	(87) US2019019631	(73) CONMED Corporation
HARDIMAN, David	06.09.2019	(72) KLEYMAN, Gennady
MCARDLE, Kevin	(22) 26.02.2019	AUGELLI, Michael J.
RAZAVI, Mahmood	(54) ATHERECTOMY MOTOR CONTROL	SILVER, Mikiya
VALE, David	SYSTEM WITH TACTILE FEEDBACK	(31) 201816015438
(31) 201361785213 P	(73) Boston Scientific Scimed, Inc.	(32) 22.06.2018
(32) 14.03.2013	(72) SPANGLER, David Gordon	(33) United States of America
(33) United States of America	CARLSON, Corydon	(51) A61B 17/34
(51) A61B 17/32	FARAGO, Laszlo Trent	A61M 39/06

(11) EP3700444	(32) 05.10.2015	(73) Leibniz-Institut für Plasmaforschung und Technologie e.V.
(21) EP18870102.3	(33) United States of America	(72) WINTER, Jörn
(47) 13.09.2023	(51) A61B 17/70	(31) 16187095
(87) US2018052527	A61B 17/80	(32) 02.09.2016
02.05.2019	A61F 2/30	(33) European Patent Office (EPO)
(22) 25.09.2018	(11) EP3482719	(51) A61B 18/04
(54) DEVICES FOR PERFORMING	(21) EP16907932.4	H01F 7/16
MINIMALLY INVASIVE SURGERY	(47) 13.09.2023	F22B 1/28
HAVING BELLOWS SUPPORT	(87) CN2016089486	H01F 7/13
HOUSING	11.01.2018	A61B 18/14
(73) ConMed Corporation	(22) 08.07.2016	A61B 18/00
(72) KLEYMAN, Gennady	(54) SACRUM REPAIR DEVICE	(11) EP3389527
AUGELLI, Michael J.	(73) Beijing AK Medical Co., Ltd.	(21) EP16876915.6
KANE, Michael J.	(72) GUO, Wei	(47) 13.09.2023
SILVER, Mikiya	WANG, Caimei	(87) US2016067558
(31) 201715790658	Ji, Tao	22.06.2017
(32) 23.10.2017	(51) A61B 17/70	(22) 19.12.2016
(33) United States of America	A61B 34/10	(54) VAPOR ABLATION SYSTEMS
(51) A61B 17/44	B25J 9/00	(73) Nxthera, Inc.
A61B 46/20	A61B 17/88	(72) HASTINGS, Roger, Noel
A61B 17/00	A61B 34/20	SCHROM, Mark
(11) EP3294164	A61B 34/30	CARLSON, Steven
(21) EP16796959.1	A61B 90/00	HOEY, Michael
(47) 13.09.2023	A61B 17/56	BYLAND, Timothy, D.
(87) US2016031858	(11) EP3474758	WOO, Karliam, C.
24.11.2016	(21) EP17814903.5	BACHMEIER, Brian, A.
(22) 11.05.2016	(47) 13.09.2023	(31) 201662357742 P
(54) APPARATUS TO PROTECT THE	(87) IL2017050699	201562269776 P
PELVIC FLOOR DURING VAGINAL	28.12.2017	(32) 01.07.2016
CHILDBIRTH	(22) 23.06.2017	18.12.2015
(73) Partura Medical, Inc.	(54) MINIMALLY INVASIVE	(33) United States of America
(72) Heinberg, Eric, Max	INTERVERTEBRAL ROD INSERTION	United States of America
(31) 201562208429 P	(73) Mazor Robotics Ltd.	(51) A61B 18/14
201562162442 P	(72) ZUKER, Edo	A61B 18/02
(32) 21.08.2015	SHOHAM, Moshe	A61B 18/12
15.05.2015	CHEN, Yuval	A61B 90/00
(33) United States of America	(31) 201662353780 P	A61B 18/00
United States of America	(32) 23.06.2016	(11) EP3658053
(51) A61B 17/70	(33) United States of America	(21) EP18839345.8
(11) EP3528726	(51) A61B 17/88	(47) 13.09.2023
(21) EP17861302.2	B21D 7/12	(87) US2018043658
(47) 13.09.2023	B21D 7/14	31.01.2019
(87) US2017057188	A61B 17/70	(22) 25.07.2018
26.04.2018	(11) EP3226790	(54) MINIMALLY INVASIVE ARTICULATING
(22) 18.10.2017	(21) EP15866361.7	ASSEMBLY HAVING ABLATION
(54) ROD REDUCER	(47) 13.09.2023	CAPABILITIES
(73) K2M, Inc.	(87) IL2015051182	(73) Innobative Designs, Inc.
(72) BARRUS, Michael	09.06.2016	(72) RIOUX, Robert, F.
(31) 201662409607 P	(22) 04.12.2015	BAILEY, Alyssa
(32) 18.10.2016	(54) SHAPER FOR VERTEBRAL FIXATION	WANKE, Tyler
(33) United States of America	RODS	BEAN, Ryan, M.
(51) A61B 17/70	(73) Mazor Robotics Ltd.	(31) 201762537418 P
A61B 17/68	(72) ZUCKER, Edo	(32) 26.07.2017
(11) EP3359068	SHOHAM, Moshe	(33) United States of America
(21) EP16854129.0	(31) 201462087314 P	(51) A61B 18/20
(47) 13.09.2023	(32) 04.12.2014	A61B 18/22
(87) US2016055105	(33) United States of America	A61B 18/26
13.04.2017	(51) A61B 18/04	A61B 1/00
(22) 03.10.2016	A61L 2/14	A61B 1/015
(54) GROWING ROD FOR TREATING	H05H 1/24	A61B 1/018
SPINAL DEFORMITIES	(11) EP3977952	(11) EP3410973
(73) Globus Medical, Inc.	(21) EP21209325.6	(21) EP17705732.0
(72) LYNCH, Bobby	(47) 13.09.2023	(47) 13.09.2023
JUCHNO, Brad	(22) 26.07.2017	(87) US2017015847
MUZUMDAR, Aditya	(54) DEVICE FOR GENERATING A PLASMA	10.08.2017
INGALHALIKAR, Aditya	JET, METHOD AND USE WITH THE	(22) 31.01.2017
GORDON, Jeffrey David	SAME	
(31) 201514874771		



(54) LASER LITHOTRIPSY MEDICAL DEVICE	(54) SURGICAL TOOL	A61C 19/00
(73) Boston Scientific Scimed, Inc.	(73) RIVERFIELD Inc.	(11) EP4014919
(72) HARRAH, Timothy, P.	(72) SHINDO, Koki	(21) EP20214681.7
OSKIN, Christopher, L.	(31) 2019045601	(47) 13.09.2023
LENZ, Derrick	(32) 13.03.2019	(22) 16.12.2020
BANERJEE, Arpita	(33) Japan	(54) DENTAL SENSOR WITH A FASTENING SYSTEM
GAVADE, Sandesh	(51) A61B 50/37	(73) Ivoclar Vivadent AG
TAKALE, Abhijit	A61B 90/90	(72) SENTI, Theresa Sujata Maria
MISRA, Pavan	A61B 90/00	MÜLLER, Frank
CHU, Michael, S.H.	A61B 17/00	SCHÜLKE, Andreas
(31) 201662290219 P	(11) EP3870094	GROSSE-HONEBRINK, Alexander
(32) 02.02.2016	(21) EP19795627.9	(51) A61C 5/42
(33) United States of America	(47) 13.09.2023	(11) EP3777751
(51) A61B 34/30	(87) GB2019053030	(21) EP19785635.4
A61B 34/37	30.04.2020	(47) 13.09.2023
A61B 90/00	(22) 25.10.2019	(87) JP2019015702
B25J 9/16	(54) SURGICAL COUNTING APPARATUS	17.10.2019
A61B 17/00	(73) Eureka Inventions Limited	(22) 10.04.2019
A61B 34/00	(72) DESAI, Aditi Kiran	(54) DENTAL FILE
(11) EP2777597	DESAI, Kiran Kamlakant	(73) Mani, Inc.
(21) EP14160269.8	(31) 201904133	(72) KUROYANAGI Shinsaku
(47) 13.09.2023	201817455	NABANA Koichi
(22) 17.03.2014	(32) 26.03.2019	MAEDA Norio
(54) Robots	26.10.2018	(31) 2018075740
(73) Samsung Electronics Co., Ltd.	(33) United Kingdom	(32) 10.04.2018
(72) Kwon, Woong	United Kingdom	(33) Japan
Lim, Bok Man	(51) A61B 90/00	(51) A61C 7/14
Ogan, Gurel	A61B 17/29	(11) EP3618755
(31) 20130028308	A61M 25/092	(21) EP18726627.5
(32) 15.03.2013	A61B 17/94	(47) 13.09.2023
(33) Korea (Republic)	A61B 1/313	(87) US2018030493
(51) A61B 34/32	(11) EP3079625	08.11.2018
A61B 34/20	(21) EP14870214.5	(22) 01.05.2018
A61B 90/00	(47) 13.09.2023	(54) ORTHODONTIC BRACKET HAVING FIXED LIGATING TABS
A61B 34/30	(87) US2014069228	(73) TP ORTHODONTICS, INC.
A61B 34/10	18.06.2015	(72) KESLING, Andrew, C.
(11) EP3856063	(22) 09.12.2014	(31) 201762500334 P
(21) EP19795260.9	(54) SYSTEMS AND NON-SURGICAL METHODS FOR DEVICE-AWARE FLEXIBLE TOOL REGISTRATION	(32) 02.05.2017
(47) 13.09.2023	(73) Intuitive Surgical Operations, Inc.	(33) United States of America
(87) FR2019052249	(72) CHOPRA, Prashant	(51) A61C 13/00
02.04.2020	(31) 201361913747 P	B22F 3/105
(22) 25.09.2019	(32) 09.12.2013	A61C 5/77
(54) MEDICAL ROBOT COMPRISING AUTOMATIC POSITIONING MEANS	(33) United States of America	A61C 5/73
(73) Quantum Surgical	(51) A61B 90/00	B29C 64/40
(72) BLONDEL, Lucien	A61B 34/30	(11) EP3870100
BANEGAS, Frédéric	A61B 90/53	(21) EP19794698.1
OLIVE, Sébastien	A61B 17/00	(47) 13.09.2023
BADANO, Fernand	A61B 34/10	(87) IB2019059084
NAHUM, Bertin	A61B 34/20	30.04.2020
(31) 1902154	A61B 90/50	(22) 23.10.2019
1858917	(11) EP3906883	(54) 3D-PRINTED DENTAL RESTORATION PRECURSOR WITH SUPPORT ELEMENT AND PROCESS OF PRODUCTION
(32) 01.03.2019	(21) EP21172641.9	(73) 3M Innovative Properties Company
27.09.2018	(47) 13.09.2023	(72) HERRMANN, Andreas G.
(33) France	(22) 07.05.2021	KORTEN, Malte
France	(54) EXTENDED REALITY HEADSET CAMERA SYSTEM FOR COMPUTER ASSISTED NAVIGATION IN SURGERY	KIRCHNER, Bastian P.
(51) A61B 34/35	(73) Globus Medical, Inc.	OBERPERTINGER, Daniel D.
A61B 17/00	(72) HEALY, Weston	SEMMLER, Philipp
A61B 17/29	CALLOWAY, Thomas	FRIEDRICH, Anja
B25J 15/08	JOHNSON, Norbert	URBAN, Michaela
A61B 34/00	KANAGASEGAR, Keerthighaan	(31) 18202532
(11) EP3939534	(31) 202016869735	(32) 25.10.2018
(21) EP20769716.0	(32) 08.05.2020	(33) European Patent Office (EPO)
(47) 13.09.2023	(33) United States of America	(51) A61C 13/00
(87) JP2020010395	(51) A61C 5/00	
17.09.2020		
(22) 10.03.2020		

B23Q 3/06	(54) LINKING STENT AND PRODUCTION METHOD FOR SAME	(22) 03.04.2020
(11) EP3868331	(73) M.I.Tech Co., Ltd.	(54) SYSTEMS FOR CORRECTING POWER OF AN INTRAOCULAR LENS USING REFRACTIVE INDEX WRITING
(21) EP21158140.0	(72) HAN, Jong Hyeon	(73) AMO Groningen B.V.
(47) 13.09.2023	(32) PARK, Hun Kuk	(72) ROSEN, Robert
(22) 19.02.2021	YUN, Ho	GOUNOU, Franck Emmanuel
(54) HOLDING DEVICE FOR AN ABUTMENT BLANK	MOON, Jong Pil	CANOVAS VIDAL, Carmen
(73) Biomet 3I, LLC	JANG, Bong Seok	ALARCON HEREDIA, Aixa
(72) GEIER, Andreas	(31) 20150017323	(31) 201962830179 P
(31) 202062979389 P	(32) 04.02.2015	(32) 05.04.2019
(32) 20.02.2020	(33) Korea (Republic)	(33) United States of America
(33) United States of America	(51) A61F 2/07	
(51) A61C 13/20	A61F 2/852	(51) A61F 2/16
A61C 13/087	A61F 2/04	B32B 37/12
A61C 5/77	(11) EP3600149	(11) EP2976042
A61C 13/08	(21) EP18718280.3	(21) EP14769563.9
A61C 13/083	(47) 13.09.2023	(47) 13.09.2023
(11) EP3764942	(87) US2018024456	(87) US2014026817
(21) EP19766676.1	04.10.2018	25.09.2014
(47) 13.09.2023	(22) 27.03.2018	(22) 13.03.2014
(87) AU2019050226	(54) RETRIEVABLE STENT SYSTEM	(54) ACCOMMODATING INTRAOCULAR LENS
19.09.2019	(73) Boston Scientific Scimed, Inc.	(73) Shifamed Holdings, LLC
(22) 13.03.2019	(72) FOLAN, Martyn G.	(72) SALAHIEH, Amr
(54) METHOD FOR FORMING A PROSTHETIC TOOTH ELEMENT	KEATING, Thomas M.	ARGENTO, Claudio
(73) Fung, John	(31) 20176247737 P	SAUL, Tom
(72) Fung, John	(32) 28.03.2017	VAUGHAN, Bob
(31) 2018201914	(33) United States of America	WILLIS, Eric
(32) 16.03.2018	(51) A61F 2/12	(31) 201414181145
(33) Australia	A61F 2/00	201361881870 P
(51) A61C 17/32	(11) EP4009904	201361828651 P
A61C 17/34	(21) EP20765373.4	201361785711 P
(11) EP3946142	(47) 13.09.2023	201361809652 P
(21) EP20719129.7	(87) IT2020050188	201361804157 P
(47) 13.09.2023	11.02.2021	
(87) EP2020059570	(22) 28.07.2020	(32) 14.02.2014
08.10.2020	(54) CONTAINER DEVICE FOR BREAST PROSTHESIS FOR RECONSTRUCTIVE BREAST SURGERY	24.09.2013
(22) 03.04.2020	(73) DECO MED SRL	29.05.2013
(54) ELECTRICAL BRUSH HANDPIECE	(72) BERTOLI, Giovanni	30.04.2013
(73) Trisa Holding AG	(31) 201900014193	08.04.2013
(72) INGOLD, Andreas	(32) 08.08.2019	21.03.2013
(31) 19167623	(33) Italy	(33) United States of America
(32) 05.04.2019	(51) A61F 2/16	United States of America
(33) European Patent Office (EPO)	(11) EP3195831	United States of America
(51) A61F 2/01	(21) EP16204944.9	United States of America
(11) EP3781081	(47) 13.09.2023	United States of America
(21) EP19724556.6	(22) 31.10.2005	(51) A61F 2/24
(47) 13.09.2023	(54) ELECTRO-ACTIVE LENSES	(11) EP3534843
(87) FR2019050934	(73) e-Vision Smart Optics Inc.	(21) EP17829689.3
24.10.2019	(72) BLUM, Donald, D	(47) 13.09.2023
(22) 18.04.2019	KOKONASKI, William	(87) IB2017001561
(54) UMBRELLA TYPE FILTER WITH ANTI-TRANSFIXION PROTECTION	(31) 261035	11.05.2018
(73) A.L.N.	636490 P	(22) 06.11.2017
(72) NIGON, Alain	623935 P	(54) TRANSCATHETER VALVE PROSTHESIS
(31) 1853412	(32) 28.10.2005	(73) Highlife SAS
(32) 18.04.2018	17.12.2004	(72) NASR, Malek
(33) France	02.11.2004	(31) 201615343936
(51) A61F 2/04	(33) United States of America	(32) 04.11.2016
A61F 2/90	United States of America	(33) United States of America
A61F 2/06	United States of America	
A61B 17/11	(51) A61F 2/16	(51) A61F 2/24
(11) EP3254643	A61F 9/008	(11) EP3703620
(21) EP15881269.3	(11) EP3781096	(21) EP18801184.5
(47) 13.09.2023	(21) EP20717619.9	(47) 13.09.2023
(87) KR2015004718	(47) 13.09.2023	(87) US2018057796
11.08.2016	(87) EP2020059665	09.05.2019
(22) 12.05.2015	08.10.2020	(22) 26.10.2018

<p>(54) SUTURE GUARD FOR A PROSTHETIC VALVE (73) Edwards Lifesciences Corporation (72) BENNETT, Nathan L. TITONE, Ryan S. (31) 201816170795 201762579761 P (32) 25.10.2018 31.10.2017 (33) United States of America United States of America <hr/>(51) A61F 2/24 A61B 5/107 A61M 25/00 (11) EP3597149 (21) EP19162407.1 (47) 13.09.2023 (22) 27.01.2014 (54) A MEDICAL SYSTEM WITH A DEVICE FOR COLLECTING CHORDAE AND/OR LEAFLETS (73) HVR Cardio Oy (72) Keränen, Olli Virtanen, Jani Pugh, Mark O'Carroll, Ger Moran, Adrian (31) 201361756657 P 13152769 (32) 25.01.2013 25.01.2013 (33) United States of America European Patent Office (EPO) <hr/>(51) A61F 2/24 A61F 2/90 A61F 2/958 (11) EP4011328 (21) EP20212594.4 (47) 13.09.2023 (22) 08.12.2020 (54) ANNULOPLASTY DEVICE (73) HVR Cardio Oy (72) Keränen, Olli <hr/>(51) A61F 2/44 A61F 2/46 A61F 2/30 (11) EP3485850 (21) EP18206335.4 (47) 13.09.2023 (22) 14.11.2018 (54) EXPANDABLE FUSION DEVICE (73) Globus Medical, Inc. (72) WEIMAN, Mark KOPP, Hillary (31) 201715815065 (32) 16.11.2017 (33) United States of America <hr/>(51) A61F 2/60 A61F 2/64 A61F 2/66 A61F 2/68 (11) EP3823564 (21) EP19744627.1 (47) 13.09.2023 (87) EP2019067887 23.01.2020 (22) 03.07.2019</p>	<p>(54) ORTHOPEDIC DEVICE, HAVING A FOOT PART, A LOWER-LEG PART AND A THIGH PART (73) Ottobock SE &amp; Co. KGaA (72) BELLMANN, Malte BOITEN, Herman WEBER, Paul (31) 102018117377 (32) 18.07.2018 (33) Germany <hr/>(51) A61F 2/66 A61F 2/68 (11) EP3265035 (21) EP16710071.8 (47) 13.09.2023 (87) US2016021074 09.09.2016 (22) 04.03.2016 (54) LOWER LIMB PROSTHESIS (73) Ottobock Prosthetics, LLC Byars, Jonathan M. Quintero, Hugo Carpenter, John (72) BYARS, Jonathan, M. QUINTERO, Hugo CARPENTER, John (31) 201562128371 P (32) 04.03.2015 (33) United States of America <hr/>(51) A61F 2/86 A61B 17/3207 A61F 2/94 A61B 17/00 A61F 2/04 A61B 17/12 A61B 17/3209 A61F 2/00 A61B 18/00 A61B 17/29 (11) EP3415121 (21) EP18000435.0 (47) 13.09.2023 (22) 22.12.2009 (54) RADIAL CUTTER IMPLANT (73) Medi-Tate Ltd. (72) Kilemnik, Ido (31) 288426 P 139718 P (32) 21.12.2009 22.12.2008 (33) United States of America United States of America <hr/>(51) A61F 2/88 A61F 2/915 (11) EP3435928 (21) EP16726419.1 (47) 13.09.2023 (87) IB2016000597 05.10.2017 (22) 31.03.2016 (54) HELICAL ULTRA LOW FORESHORTENING STENT (73) Cordis US Corp. (72) MAJERCAK, David <hr/>(51) A61F 2/95 (11) EP4041143 (21) EP20801178.3 (47) 13.09.2023</p>	<p>(87) EP2020080398 05.05.2022 (22) 29.10.2020 (54) CONNECTOR FOR TRANSFER OF AN IMPLANT TO A CATHETER (73) Clearstream Technologies Limited (72) MCDONAGH, Dónal GILES, Ciaran O'SHEA, John <hr/>(51) A61F 2/958 A61B 17/12 A61B 17/00 A61M 25/10 A61M 25/00 A61B 90/00 A61F 2/95 (11) EP3592304 (21) EP18771178.3 (47) 13.09.2023 (87) US2018023422 27.09.2018 (22) 20.03.2018 (54) COMBINED STENT REPERFUSION SYSTEM (73) Corflow Therapeutics AG (72) SCHWARTZ, Robert S. HOEM, Jon H. ROTHMAN, Martin T. (31) 201762473740 P (32) 20.03.2017 (33) United States of America <hr/>(51) A61F 5/05 A61F 5/01 (11) EP3691578 (21) EP18792824.7 (47) 13.09.2023 (87) US2018054820 11.04.2019 (22) 08.10.2018 (54) ORTHOPEDIC DEVICE FOR UNLOADING A KNEE (73) Ossur Iceland EHF (72) PÉTURSSON, Valgeir STEFÁNSSON, Stefán Örn KRISTINSDOTTIR, Hronn ALBERTSSON, Halldór SIGURDSSON, Sindri Páll (31) 201862649104 P 201762568935 P (32) 28.03.2018 06.10.2017 (33) United States of America United States of America <hr/>(51) A61F 5/37 A47G 9/02 A61G 7/00 A61G 7/05 (11) EP3958799 (21) EP20721583.1 (47) 13.09.2023 (87) EP2020061563 29.10.2020 (22) 24.04.2020 (54) PATIENT IMMOBILIZATION APPARATUS, SYSTEM AND METHOD FOR IMMOBILIZING A PATIENT (73) Isys Medizintechnik GmbH (72) VOGELE, Michael</p>
--	---	--

(31) 201962839420 P	(72) Bendett, Mark	16.04.2019
(32) 26.04.2019	Bischoff, Mark	17.12.2018
(33) United States of America	Gerlach, Mario	(33) United States of America
(51) A61F 5/44	Mühlhoff, Dirk	United States of America
A61F 5/445	(31) 625797	United States of America
(11) EP4157163	475583 P	(51) A61F 13/42
(21) EP21734455.5	(32) 23.07.2003	(11) EP3019132
(47) 13.09.2023	02.06.2003	(21) EP14739661.8
(87) GB2021051336	(33) United States of America	(47) 13.09.2023
09.12.2021	United States of America	(87) DK2014050199
(22) 01.06.2021	(51) A61F 9/008	15.01.2015
(54) OSTOMY APPLIANCE	A61B 18/20	(22) 03.07.2014
(73) ConvaTec Limited	A61B 18/24	(54) SYSTEM FOR MEASURING
(72) HOLDEN, Clare	(11) EP3709942	THE QUANTITY OF URINE AND
YOUNG, Alice	(21) EP18836646.2	DETECTING THE PRESENCE OF
EVANS, Kevin	(47) 13.09.2023	FAECES IN A NAPPY
(31) 202008232	(87) IB2018059976	(73) Wear&Care ApS
(32) 02.06.2020	20.06.2019	(72) ETTRUP HANSEN, Martin
(33) United Kingdom	(22) 12.12.2018	(31) 201300425
(51) A61F 6/00	(54) MULTIPLE-INPUT-COUPLED	(32) 12.07.2013
A61F 6/02	ILLUMINATED MULTI-SPOT LASER	(33) Denmark
A61F 6/04	PROBE	(51) A61F 13/42
(11) EP3270839	(73) Alcon Inc.	A61F 13/84
(21) EP16769464.5	(72) HORN, Jochen	(11) EP3906907
(47) 13.09.2023	MIRSEPASSI, Alireza	(21) EP20173437.3
(87) US2016023314	SMITH, Ronald T.	(47) 13.09.2023
29.09.2016	(31) 201762598653 P	(22) 07.05.2020
(22) 18.03.2016	201762597550 P	(54) DETECTION DEVICE FOR SMART
(54) BARRIER GARMENT	(32) 14.12.2017	ABSORBENT ARTICLES
(73) Brazen Goods Inc.	12.12.2017	(73) Ontex BV
(72) CRISTOL-DONOVAN, Melanie	(33) United States of America	Ontex Group NV
(31) 201562253006 P	United States of America	(72) Weber, Ainas
201562247754 P	(51) A61F 13/00	Hellmold, Jens
201562136412 P	A61F 13/08	Heirman, Lisa
(32) 09.11.2015	(11) EP4034060	Ronsmans, Joris
29.10.2015	(21) EP19813226.8	(51) A61F 13/53
20.03.2015	(47) 13.09.2023	A61F 13/15
(33) United States of America	(87) DE2019100847	A61L 15/22
United States of America	01.04.2021	A61L 15/24
United States of America	(22) 25.09.2019	A61L 15/34
(51) A61F 9/007	(54) BANDAGE SYSTEM WITH	A61L 15/58
B65B 3/00	DECONGESTIVE FUNCTION	C09J 201/00
A61M 13/00	(73) Dr. Recknagel Gesundheitservice	(11) EP3560468
F17C 5/06	GmbH	(21) EP17883085.7
(11) EP3723679	GPB Gesundheitszentrum Prenzlauer-	(47) 13.09.2023
(21) EP19710486.2	Berg GmbH	(87) JP2017043992
(47) 13.09.2023	(72) VALDER, Uwe	28.06.2018
(87) IB2019051049	(51) A61F 13/20	(22) 07.12.2017
29.08.2019	(11) EP3897495	(54) ABSORBENT SHEET AND
(22) 08.02.2019	(21) EP19839031.2	ABSORBENT ARTICLE
(54) SYSTEMS AND METHODS FOR	(47) 13.09.2023	(73) Kao Corporation
GAS MIXING IN OCULAR SURGICAL	(87) US2019066696	(72) KURAMAE, Ryota
EQUIPMENT	25.06.2020	(31) 2017207303
(73) Alcon Inc.	(22) 17.12.2019	2016250165
(72) HOPKINS, Mark Alan	(54) TAMPON WITH WICKING	(32) 26.10.2017
(31) 201862633824 P	MEMBER AND IMPROVED	22.12.2016
(32) 22.02.2018	MANUFACTURABILITY	(33) Japan
(33) United States of America	(73) The Procter & Gamble Company	Japan
(51) A61F 9/008	(72) STRONG, Kevin, Charles	(51) A61G 5/02
(11) EP2865362	BROWN, Henry, A.	A61G 5/10
(21) EP14198073.0	DURLING, Evan, Joseph	B62L 5/16
(47) 13.09.2023	MINOGUCHI, Ryo	(11) EP3773400
(22) 28.05.2004	QURESHI, Khalid	(21) EP19719575.3
(54) Apparatus for ophthalmologic surgical	SEMIDEY-FLECHA, Lymarie	(47) 13.09.2023
procedures using a femtosecond fiber	(31) 201962857977 P	(87) FR2019050766
laser	201962834427 P	10.10.2019
(73) IMRA America, Inc.	201862780388 P	(22) 03.04.2019
Carl Zeiss Meditec AG	(32) 06.06.2019	(54) WHEELCHAIR

(73) EPPUR	WRIGHT, Christopher, John	(31) 1759358
(72) GALLOIS, Colin	DUFFY, David	(32) 05.10.2017
DURAND, Lancelot	(31) 19172775	(33) France
(31) 1852876	(32) 06.05.2019	(51) A61K 8/34
(32) 03.04.2018	(33) European Patent Office (EPO)	A61K 8/41
(33) France	(51) A61J 1/20	A61Q 5/12
(51) A61G 7/07	(11) EP3552595	A61K 8/81
(11) EP3988069	(21) EP19175225.2	(11) EP3638196
(21) EP21204077.8	(47) 13.09.2023	(21) EP18730719.4
(47) 13.09.2023	(22) 21.01.2014	(47) 13.09.2023
(22) 21.10.2021	(54) PRESSURE-REGULATING VIAL	(87) EP2018064956
(54) PRONING FRAME FOR A PATIENT	ADAPTORS	20.12.2018
BED	(73) ICU Medical, Inc.	(22) 07.06.2018
(73) Hill-Rom Services, Inc.	(72) FANGROW, Thomas, F	(54) HAIR CONDITIONING COMPOSITION
(72) KAIKENDER, Philippe	(31) 201361909940 P	FOR IMPROVED RINSE
DUVERT, Jean-Bernard	201361785874 P	(73) Unilever IP Holdings B.V.
AUDIC, Mickael	201361755800 P	(72) COAN, Lynsey, Joanne
HIGHT, Joshua C.	(32) 27.11.2013	GILES, Colin, Christopher, David
CONEJO, Alejandro Noe	14.03.2013	GLENDAY, Jennifer, Amy
MOENTER, Jonathan K.	23.01.2013	GUTIERREZ-ABAD, Raquel
ZAPFE, Lori Ann	(33) United States of America	LUCK, Matias
KOOIKER, Heather D.	United States of America	(31) 17176250
ABOUSALEH, Christine	United States of America	(32) 15.06.2017
URREA, Carlos A.	(51) A61K 8/02	(33) European Patent Office (EPO)
DREYER, Morgan M.	A61K 8/19	(51) A61K 8/35
(31) 202163155827 P	A61Q 1/02	A61K 8/37
202063105094 P	A61Q 1/12	A61Q 13/00
(32) 03.03.2021	(11) EP3501483	C11B 9/00
23.10.2020	(21) EP18185612.1	A61P 25/00
(33) United States of America	(47) 13.09.2023	A61P 25/22
United States of America	(22) 25.07.2018	A61P 43/00
(51) A61G 7/07	(54) DYNAMIC MAKE-UP PRODUCT	A61Q 5/02
(11) EP3988068	(73) HYDRAIN K S.r.l.	A61Q 15/00
(21) EP21204076.0	(72) D'Alessandri, Riccardo	(11) EP3313361
(47) 13.09.2023	(31) 201700148041	(21) EP16738622.6
(22) 21.10.2021	(32) 21.12.2017	(47) 13.09.2023
(54) PRONING FRAME FOR A PATIENT	(33) Italy	(87) US2016040223
BED	(51) A61K 8/02	05.01.2017
(73) Hill-Rom Services, Inc.	A61K 8/25	(22) 29.06.2016
(72) KAIKENDER, Philippe	A61K 8/27	(54) MUSK COMPOSITION AND METHODS
DUVERT, Jean-Bernard	A61Q 15/00	OF USE THEREOF
AUDIC, Mickael	(11) EP3991713	(73) Takasago International Corporation
HIGHT, Joshua C.	(21) EP21198996.7	(72) KANG, Raphael, K. L.
CONEJO, Alejandro Noe	(47) 13.09.2023	CILIA, Alba, T.
MOENTER, Jonathan K.	(22) 24.09.2021	(31) 201562186240 P
ZAPFE, Lori Ann	(54) AUMENTED EFFICACY TALC	(32) 29.06.2015
KOOIKER, Heather D.	(73) Prolabin & Tefarm S.r.l.	(33) United States of America
ABOUSALEH, Christine	(72) SPOGLI, ROBERTO	(51) A61K 8/44
URREA, Carlos A.	CARDELLINI, FABIO	A61K 8/46
DREYER, Morgan M.	SISANI, MICHELE	A61Q 5/02
(31) 202163155821 P	(31) 202000025774	A61K 8/73
202063105088 P	(32) 29.10.2020	A61Q 19/10
(32) 03.03.2021	(33) Italy	A61K 8/02
23.10.2020	(51) A61K 8/19	(11) EP3644948
(33) United States of America	A61K 8/25	(21) EP18731785.4
United States of America	A61Q 1/06	(47) 13.09.2023
(51) A61H 31/00	A61K 8/73	(87) EP2018065376
(11) EP3941415	(11) EP3691604	03.01.2019
(21) EP20720023.9	(21) EP18793253.8	(22) 11.06.2018
(47) 13.09.2023	(47) 13.09.2023	(54) ANHYDROUS SOLID COMPOSITION
(87) EP2020060797	(87) FR2018052458	COMPRISED AN ISETHIONIC ACID
12.11.2020	11.04.2019	DERIVATIVE, A GLUTAMIC ACID
(22) 17.04.2020	(22) 05.10.2018	DERIVATIVE, AN AMPHOTERIC
(54) CARDIOPULMONARY	(54) MATTE LIPSTICK COMPOSITION	SURFACTANT AND FILLERS
RESUSCITATION DEVICE, CONTROL	(73) Chanel Parfums Beauté	(73) L'OREAL
METHOD AND COMPUTER PROGRAM	(72) FIOLEAU, Hélène	(72) SEGALEN-GUIRAUD, Audrey
(73) Koninklijke Philips N.V.	DE CLERMONT-GALLERANDE, Hélène	LAVABLE, Nadine
(72) BEARD, Timothy	MALVEZIN, Chantal	(31) 1756220

(32) 30.06.2017	(11) EP3610854	United States of America
(33) France	(21) EP18785038.3	(51) A61K 9/00
(51) A61K 8/46	(47) 13.09.2023	A61K 9/19
C11D 1/00	(87) JP2018004501	A61K 9/20
A61Q 5/02	18.10.2018	A61K 9/50
A61Q 19/10	(22) 09.02.2018	A61K 47/02
C11D 1/04	(54) COSMETIC	A61K 47/44
C11D 1/12	(73) Shin-Etsu Chemical Co., Ltd.	A61K 31/192
C11D 1/37	(72) MORIYA, Hiroyuki	(11) EP3927312
C11D 3/04	(31) 2017077472	(21) EP20708583.8
C11D 1/28	(32) 10.04.2017	(47) 13.09.2023
(11) EP3458025	(33) Japan	(87) GB2020050420
(21) EP17722467.2	(51) A61K 8/92	27.08.2020
(47) 13.09.2023	A61Q 19/08	(22) 21.02.2020
(87) EP2017061258	A61Q 19/02	(54) MINIMIZING AGGLOMERATION,
23.11.2017	A61Q 19/00	AERATION, AND PRESERVING THE
(22) 11.05.2017	A61P 43/00	COATING OF PHARMACEUTICAL
(54) AQUEOUS TENSIDE COMPOSITIONS	A61P 17/16	COMPOSITIONS COMPRISING
(73) BASF SE	A61P 17/00	IBUPROFEN
(72) BRUNN, Claudia	A61K 36/75	(73) Catalent U.K. Swindon Zydys Limited
BEHLER, Ansgar	A61K 36/53	(72) MCLAUGHLIN, Rosaleen
(31) 16170191	A61K 36/18	PARKER, Adam
(32) 18.05.2016	A61K 36/00	HOWES, Simon Andrew Martyn
(33) European Patent Office (EPO)	A61K 31/52	WHITEHOUSE, Jonathon
(51) A61K 8/89	A61K 8/55	WHEADON, Craig
A61K 8/894	A61K 38/02	(31) 201962809307 P
C08L 83/04	(11) EP3335693	201962809293 P
(11) EP4103150	(21) EP18150042.2	201962809287 P
(21) EP20780989.8	(47) 13.09.2023	(32) 22.02.2019
(47) 13.09.2023	(22) 22.04.2009	22.02.2019
(87) EP2020076786	(54) COMPOSITION FOR EXTERNAL USE	22.02.2019
31.03.2022	(73) Otsuka Pharmaceutical Co., Ltd.	(33) United States of America
(22) 24.09.2020	(72) AOKI, Akihiro	United States of America
(54) METHOD FOR PRODUCING	WAKAMATSU, Kosaburo	United States of America
HYDROPHILIC	SHINOHARA, Shigeo	
ORGANOPOLYSILOXANE GELS	TAKASU, Osamu	(51) A61K 9/00
(73) Wacker Chemie AG	(31) 2008222246	A61K 47/02
(72) SANDMEYER, Frank	2008150847	C02F 1/68
BACHMEIER, Bernd-Josef	(32) 29.08.2008	C02F 103/02
(51) A61K 8/895	(33) Japan	C02F 1/04
A61K 8/06	Japan	C02F 1/32
A61K 8/34	(51) A61K 9/00	C02F 1/44
A61K 8/64	A61K 8/34	(11) EP3624769
A61K 8/891	A61K 31/045	(21) EP18727449.3
A61Q 1/00	A61K 31/085	(47) 13.09.2023
A61Q 17/04	A61P 17/00	(87) IB2018053373
A61Q 19/00	(11) EP3003254	22.11.2018
(11) EP3900700	(21) EP14732704.3	(22) 15.05.2018
(21) EP19900452.4	(47) 13.09.2023	(54) UNIT FOR EXTEMPORANEOUS
(47) 13.09.2023	(87) US2014038295	GENERATION OF AN ISOTONIC
(87) JP2019044045	11.12.2014	SOLUTION BASED ON WATER
25.06.2020	(22) 16.05.2014	(73) Satanassi, David
(22) 11.11.2019	(54) A TRPV-1 ANTAGONIST FOR USE	(72) Satanassi, David
(54) MICROEMULSION COMPOSITION,	IN A METHOD OF REDUCING SKIN	(31) 201700052521
CURED PRODUCT THEREOF, AND	IRRITATION INDUCED BY TOPICAL	(32) 15.05.2017
COSMETIC MATERIAL CONTAINING	APPLICATION OF PHENOXYETHANOL	(33) Italy
SAME	(73) Johnson & Johnson Consumer Inc.	(51) A61K 9/06
(73) Shin-Etsu Chemical Co., Ltd.	(72) CEBULSKI, Slawomir	A61K 9/107
(72) ABE, Takuya	GARAY, Michelle	A61K 47/44
(31) 2018237526	RODRIGUEZ, Karien J.	A61K 9/00
(32) 19.12.2018	SOUTHALL, Michael D.	A61K 47/12
(33) Japan	KAUR, Simarna	A61K 47/24
(51) A61K 8/895	(31) 201414278007	(11) EP3868362
A61K 8/31	201313911492	(21) EP19839634.3
A61K 8/37	(32) 15.05.2014	(47) 13.09.2023
A61Q 1/02	06.06.2013	(87) ES2019070699
A61Q 3/00	(33) United States of America	23.04.2020
A61Q 17/04		(22) 15.10.2019

(54) NANOSTRUCTURED LIPID GEL, METHOD FOR PREPARATION AND USE	(31) 20180091284 (32) 06.08.2018 (33) Korea (Republic)	(54) SEAMLESS CAPSULE SHELL COMPOSITION AND SEAMLESS CAPSULE
(73) Consejo Superior de Investigaciones Científicas	(51) A61K 9/20 A61K 31/00	(73) Fuji Capsule Co., Ltd. Nisshin Kasei Co.,Ltd.
(72) TALLÓ DOMÍNGUEZ, Kirian LÓPEZ SERRANO, Olga MONER DEL MORAL, Verónica	(11) EP3086781 (21) EP14824001.3 (47) 13.09.2023	(72) NISHIMURA, Koichi ISHIBA, Sergio URUGA, Hitoshi AOKI, Hisayoshi KONDO, Yosuke SHIMOKAWA, Yoshiyuki
(31) 201830989 (32) 15.10.2018 (33) Spain	(87) EP2014079199 02.07.2015 (22) 23.12.2014	(31) 2017114203 (32) 09.06.2017 (33) Japan
(51) A61K 9/08 A61K 47/10 A61K 47/26 A61K 47/32 A61K 47/36 A61K 47/38 A61K 47/40	(54) PHARMACEUTICAL COMPOSITION OF DPP-IV INHIBITOR IN COMBINATION WITH METFORMIN	(51) A61K 9/66 A61K 47/26 A61K 31/202 A61K 31/232 A61K 47/10 A61K 47/14 A61P 3/06 A61P 7/02 A61P 9/10 A61P 25/00 A61P 29/00 A61P 35/00 A23L 33/10
(11) EP4008311 (21) EP22151645.3 (47) 13.09.2023 (22) 12.10.2017	(73) KRKA, d.d., Novo mesto (72) KORASA, Klemen KUKEC, Simon VRECER, Franc HUDOVORNIK, Grega SKRABANJA, Vida	(11) EP3735963 (21) EP20174604.7 (47) 13.09.2023 (22) 17.07.2014
(54) ARTIFICIAL TEAR, CONTACT LENS AND DRUG VEHICLE COMPOSITIONS AND METHODS OF USE THEREOF	(31) 201400275 201300444 (32) 31.07.2014 23.12.2013	(54) SELF-EMULSIFYING COMPOSITION OF OMEGA-3 FATTY ACID
(73) PS Therapy, Inc. (72) HORN, Gerald (31) 201762563154 P 201762535380 P 201762519011 P 201762452045 P 201662428031 P 201662407271 P	(33) Slovenia Slovenia	(73) Mochida Pharmaceutical Co., Ltd. (72) KIMURA, Shigeru ITO, Hiromitsu FUJII, Hirosato YAMAGATA, Motoo
(32) 26.09.2017 21.07.2017 13.06.2017 30.01.2017 30.11.2016 12.10.2016	(51) A61K 9/24 A61K 31/4178 A61P 1/08 A61P 1/12	(31) 2013149645 (32) 18.07.2013 (33) Japan
(33) United States of America United States of America United States of America United States of America United States of America	(11) EP3116500 (21) EP15761030.4 (47) 13.09.2023	(51) A61K 9/70 A61K 9/00 B29C 53/00 A61K 31/57 D01D 5/00 D04H 1/728
(51) A61K 9/08 A61K 47/40 A61K 47/18 A61K 47/26 A23L 33/125 A23L 33/175	(87) IB2015000997 17.09.2015 (22) 11.03.2015	(11) EP3651746 (21) EP18832426.3 (47) 13.09.2023 (87) US2018041175 17.01.2019
(11) EP3834818 (21) EP19846614.6 (47) 13.09.2023 (87) KR2019009200 13.02.2020 (22) 24.07.2019	(54) ONDANSETRON EXTENDED RELEASE SOLID DOSAGE FORMS FOR TREATING DIARRHEA PREDOMINANT IRRITABLE BOWEL SYNDROME	(22) 08.07.2018
(54) STABLE INFUSION SOLUTION COMPOSITION CONTAINING SUGAR AND AMINO ACID	(73) Redhill Biopharma Ltd (72) FATHI, Reza RADAY, Gilead GOLDBERG, Guy	(54) BIOERODIBLE DRUG DELIVERY IMPLANTS
(73) Lee, Geon Moo Lee, In Seong Lee, Jun Seong Chung, Mi Boon	(31) 201462040136 P 201461951112 P 201461951092 P 201461951074 P	(73) Hera Health Solutions Inc. (72) WHITFIELD, Garrett MATHEW, Idicula DEVLIN, Matthew MCVEY, Anthony
(72) Lee, Geon Moo Lee, In Seong Lee, Jun Seong Chung, Mi Boon	(32) 21.08.2014 11.03.2014 11.03.2014 11.03.2014	(31) 201762530166 P (32) 08.07.2017 (33) United States of America
	(33) United States of America United States of America United States of America United States of America	(51) A61K 31/03 A61K 9/107 A61K 9/16 A61P 35/00 A61K 9/14
	(51) A61K 9/48 A61K 47/10 A61K 47/26 A61K 47/32 A61K 47/36	
	(11) EP3636253 (21) EP18813906.7 (47) 13.09.2023 (87) JP2018021666 13.12.2018 (22) 06.06.2018	

(11) EP4051249	PARTICULAR MIXTURE OF GRAPE	A61K 33/14
(21) EP20786346.5	EXTRACT AND BLUEBERRY EXTRACT	(11) EP3402478
(47) 13.09.2023	(73) Activ'inside	(21) EP17738872.5
(87) IB2020059218	(72) GAUDOUT, David	(47) 13.09.2023
06.05.2021	REY, Stéphane	(87) US2017013045
(22) 01.10.2020	LEMAIRE, Benoit	20.07.2017
(54) PHARMACEUTICAL COMPOSITION	MAZIER, Wilfrid	(22) 11.01.2017
COMPRISING MITOTANE FOR ORAL	DUBREUIL, Séverine	(54) COMPOSITIONS AND METHODS
ADMINISTRATION FOR USE IN THE	(31) 1871663	FOR TREATING AND PREVENTING
TREATMENT OF ADRENOCORTICAL	(32) 21.11.2018	ADHESIONS AND ILEUS
CARCINOMA AND CUSHING-	(33) France	(73) Leading Biosciences, Inc.
SYNDROME	(51) A61K 31/167	(72) HALLAM, Thomas
(73) Skiba, Mohamed	A61K 9/48	RODENRYS, John
(72) LAHIANI-SKIBA, Malika	(11) EP3178473	(31) 201662342565 P
BOUNOURE, Frédéric	(21) EP15202468.3	201662342626 P
THOMAS, Michael	(47) 13.09.2023	201662308784 P
LEFEBVRE, Hervé	(22) 23.12.2015	201662308787 P
SKIBA, Mohamed	(54) ACID RESISTANT CAPSULE SHELL	201662277440 P
(31) 1912084	AND ITS PREPARATION PROCESS	201662277434 P
(32) 28.10.2019	(73) Dah Feng Capsule Industry Co., Ltd.	(32) 27.05.2016
(33) France	(72) CHANG, Ruei Jan	27.05.2016
(51) A61K 31/05	LIN, Yi Huei	15.03.2016
A61K 31/155	WU, Chieh Jen	15.03.2016
A61K 31/64	(31) 201514963200	11.01.2016
A61P 3/10	(32) 08.12.2015	11.01.2016
A61P 3/06	(33) United States of America	(33) United States of America
A61K 45/06	(51) A61K 31/185	United States of America
(11) EP3804705	A61K 31/19	United States of America
(21) EP18922061.9	A61K 31/191	United States of America
(47) 13.09.2023	A61K 9/00	United States of America
(87) CN2018090226	A61K 9/06	United States of America
12.12.2019	A61K 47/38	(51) A61K 31/365
(22) 07.06.2018	A61K 33/04	A61K 9/00
(54) PHARMACEUTICAL COMPOSITION	A61P 31/12	A61K 9/10
FOR PREVENTING DIABETES AND	(11) EP3843715	A61P 9/10
USE THEREOF	(21) EP19765421.3	A61P 25/24
(73) Hanyi Bio-Technology Company Ltd.	(47) 13.09.2023	A61P 39/06
(72) ZHANG, Ke	(87) EP2019072926	A61K 47/26
TAN, Xin	05.03.2020	A61K 36/16
YU, Zhaohui	(22) 28.08.2019	(11) EP3708159
LI, Xiangdong	(54) THERAPY OF HIGH-RISK HUMAN	(21) EP18894739.4
LIAN, Meng	PAPILLOMAVIRUS INFECTIONS	(47) 13.09.2023
(51) A61K 31/05	(73) Selo Medical GmbH	(87) CN2018115167
A61P 25/28	(72) FUCHS, Norbert	04.07.2019
A23L 33/105	(31) 18191289	(22) 13.11.2018
A61K 36/87	(32) 28.08.2018	(54) GINKGO DITERPENE LACTONE
A61K 36/45	(33) European Patent Office (EPO)	COMPOSITION
A61K 45/06	(51) A61K 31/19	(73) Jiangsu Kanion Pharmaceutical Co. Ltd
A61K 31/7048	A61P 25/00	(72) XIAO, Wei
A61K 31/353	(11) EP3328371	ZHOU, Enli
A61K 31/192	(21) EP16745721.7	CAO, Zeyu
A23K 10/30	(47) 13.09.2023	CHANG, Xiujuan
A23K 20/111	(87) EP2016068174	KANG, Xiaodong
A23K 20/163	09.02.2017	WANG, Yongxiang
A23K 20/179	(22) 29.07.2016	HU, Hanfei
A23K 50/00	(54) PHEROMONE COMPOSITIONS AND	WU, Yun
A23K 50/20	USES THEREOF	WANG, Zhenzhong
A23K 50/40	(73) Ceva Santé Animale	ZHANG, Chenfeng
A23L 2/52	(72) LACOSTE, Sandrine	(31) 201711475539
(11) EP3883551	BECK, Alexandra	(32) 29.12.2017
(21) EP19816550.8	(31) 15306249	(33) China
(47) 13.09.2023	(32) 31.07.2015	(51) A61K 31/366
(87) EP2019081945	(33) European Patent Office (EPO)	A61K 45/06
28.05.2020	(51) A61K 31/25	A61K 31/00
(22) 20.11.2019	A61K 31/79	C07D 493/00
(54) SINGLE-DOSE USE OF A	A61P 41/00	C07D 493/06
COMPOSITION COMPRISING A	A61K 31/7004	A61P 9/00
	A61K 31/765	A61P 29/00



A61P 25/00	(21) EP21191588.9	C07D 401/04
A61P 3/04	(47) 13.09.2023	C07D 401/12
A61P 3/06	(22) 05.07.2018	C07D 403/04
A61P 3/10	(54) COMPOSITIONS AGAINST CANDIDA	C07D 405/14
A61P 35/00	INFECTIONS	C07D 413/12
A61P 43/00	(73) Katholieke Universiteit Leuven	C07D 403/14
(11) EP2866804	Universiteit Antwerpen	C07D 237/20
(21) EP13735543.4	(72) CAMMUE, Bruno	C07D 405/04
(47) 13.09.2023	THEVISSSEN, Karin	C07D 417/14
(87) US2013048310	DE CREMER, Kaat	C07D 451/02
03.01.2014	COS, Paul	C07D 471/10
(22) 27.06.2013	(31) 100445	C07D 487/08
(54) ENHANCING AUTOPHAGY OR	201711512	C07D 498/10
INCREASING LONGEVITY BY	(32) 20.09.2017	A61P 35/00
ADMINISTRATION OF UROLITHINS OR	18.07.2017	A61P 43/00
PRECURSORS THEREOF	(33) Luxembourg	(11) EP3262036
(73) Amazentis SA	United Kingdom	(21) EP16708332.8
(72) RINSCH, Christopher, L.	(51) A61K 31/436	(47) 13.09.2023
BLANCO-BOSE, William	A61K 9/00	(87) US2016019328
SCHNEIDER, Bernard	A61P 9/10	01.09.2016
MOUCHIROUD, Laurent	A61P 9/14	(22) 24.02.2016
RYU, Dongryeol	(11) EP3515452	(54) THERAPEUTIC PYRIDAZINE
ANDREUX, Penelope	(21) EP17853927.6	COMPOUNDS AND USES THEREOF
AUWERX, Johan	(47) 13.09.2023	(73) Genentech, Inc.
(31) 201361791137 P	(87) US2017052790	Constellation Pharmaceuticals, Inc.
201261712886 P	29.03.2018	(72) ALBRECHT, Brian, K.
201261665137 P	(22) 21.09.2017	COTE, Alexandre
(32) 15.03.2013	(54) TREATMENT OF RESTENOSIS USING	CRAWFORD, Terry
12.10.2012	TEMSIROLIMUS	DUPLESSIS, Martin
27.06.2012	(73) Mercator Medsystems, Inc.	GOOD, Andrew, Charles
(33) United States of America	(72) SEWARD, Kirk Patrick	LEBLANC, Yves
United States of America	(31) 201662398471 P	MAGNUSON, Steven, R.
United States of America	(32) 22.09.2016	NASVESHUK, Christopher, G.
(51) A61K 31/397	(33) United States of America	ROMERO, F. Anthony
C07D 205/04	(51) A61K 31/436	TANG, Yong
A61P 23/00	A61K 35/15	TAYLOR, Alexander, M.
A61P 25/00	A61K 35/28	(31) 201562120732 P
A61P 25/18	A61K 38/17	(32) 25.02.2015
A61P 25/22	A61K 45/06	(33) United States of America
A61P 25/28	A61K 47/60	(51) A61K 31/4375
A61P 43/00	A61K 47/50	A61K 31/18
(11) EP3541784	A61K 47/69	A61K 9/08
(21) EP17807779.8	A61P 3/08	A61K 31/444
(47) 13.09.2023	C12M 3/02	A61K 45/06
(87) EP2017079666	C12N 15/85	A61K 47/38
24.05.2018	(11) EP3592392	A61P 1/16
(22) 17.11.2017	(21) EP18764623.7	A61K 9/00
(54) NOVEL AZETIDINE DERIVATIVES	(47) 13.09.2023	(11) EP3463350
USEFUL AS MODULATORS OF	(87) US2018021742	(21) EP17807548.7
CORTICAL CATECHOLAMINERGIC	13.09.2018	(47) 13.09.2023
NEUROTRANSMISSION	(22) 09.03.2018	(87) US2017035628
(73) Integrative Research Laboratories	(54) FASL-ENGINEERED BIOMATERIALS	07.12.2017
Sweden AB	WITH IMMUNOMODULATORY	(22) 02.06.2017
(72) SONESSON, Clas	FUNCTION	(54) PYRROLO-PYRIDINES AND
PETTERSSON, Fredrik	(73) University of Louisville Research	PYRROLO-PYRIMIDINES FOR USE IN
(31) 16199545	Foundation, Inc.	TREATING LIVER FIBROSIS
(32) 18.11.2016	Georgia Tech Research Corporation	(73) ChemoCentryx, Inc.
(33) European Patent Office (EPO)	(72) SHIRWAN, Haval	(72) MIAO, Zhenhua
(51) A61K 31/4174	GARCIA, Andres J.	CHARO, Israel
A61K 45/06	YOLCU, Esma S.	(31) 201662345086 P
A61K 47/14	ZHAO, Hong	(32) 03.06.2016
A61K 9/06	HEADEN, Devon	(33) United States of America
A61K 9/107	(31) 201762469802 P	(51) A61K 31/4439
A61K 47/44	(32) 10.03.2017	A61P 35/00
A61K 31/14	(33) United States of America	A61P 29/00
A61K 47/18	(51) A61K 31/437	A61P 9/12
A61P 31/10	A61K 45/06	A61P 25/00
(11) EP3949962	C07D 237/22	(11) EP3277280

(21) EP16774156.0	18.01.2018	SÜLZLE, Detlev
(47) 13.09.2023	(22) 13.07.2017	LEWIS, Timothy, A.
(87) US2016025126	(54) TREATMENT OF CANCER	GREULICH, Heidi
06.10.2016	(73) Mingsight Pharmaceuticals, Inc.	WU, Xiaoyun
(22) 31.03.2016	(72) NIESMAN, Michael	MEYERSON, Matthew
(54) ISOMYOSMINE FOR USE IN THE	ZHANG, Kai	BURGIN, Alex
TREATMENT OF AUTOIMMUNE	(31) 201662362369 P	(31) 201762541627 P
DISEASES	(32) 14.07.2016	(32) 04.08.2017
(73) MYMD PHARMACEUTICALS, INC.	(33) United States of America	(33) United States of America
(72) WILLIAMS, Jonnie R.	(51) A61K 31/535	(51) A61K 31/565
(31) 201562140618 P	C07D 401/14	A61K 9/00
(32) 31.03.2015	A61K 31/198	A61P 5/30
(33) United States of America	A61K 31/47	A61P 15/00
(51) A61K 31/4535	A61K 31/4709	A61K 9/22
G02B 1/04	A61K 31/4725	A61K 9/48
A61P 27/02	A61K 31/496	(11) EP3886816
A61P 37/08	A61K 31/5377	(21) EP19891161.2
A61K 9/00	A61K 31/55	(47) 13.09.2023
(11) EP3210594	C07D 215/36	(87) US2019044230
(21) EP17151751.9	C07D 401/12	04.06.2020
(47) 13.09.2023	C07D 417/12	(22) 30.07.2019
(22) 16.03.2007	C07D 471/04	(54) ESTRADIOL BENZOATE AS A
(54) METHODS AND OPHTHALMIC	A61P 25/14	STERILANT
DEVICES USED IN THE TREATMENT	A61P 25/16	(73) Insigna Inc.
OF OCULAR ALLERGIES	A61P 25/18	(72) KO, CheMyong
(73) Johnson & Johnson Vision Care Inc.	A61P 25/24	(31) 201862772878 P
(72) RAJA, Ranganath R.	A61P 25/28	(32) 29.11.2018
MAHADEVAN, Shivkumar	(11) EP3250209	(33) United States of America
PALL, Brian	(21) EP16744242.5	(51) A61K 31/609
ALLI, Azaam	(47) 13.09.2023	A61K 38/26
MOLOCK, Frank F.	(87) US2016015832	A61K 9/20
(31) 848332 P	04.08.2016	A61P 3/00
(32) 29.09.2006	(22) 29.01.2016	A61P 3/04
(33) United States of America	(54) COMT INHIBITING METHODS AND	A61P 3/10
(51) A61K 31/4709	COMPOSITIONS	(11) EP3542790
A61K 31/496	(73) Lieber Institute For Brain Development	(21) EP18212576.5
C07D 215/36	(72) BARROW, James	(47) 13.09.2023
A61P 7/06	ERNST, Glen	(22) 15.03.2013
(11) EP3307271	HUANG, Yifang	(54) COMPOSITIONS COMPRISING A
(21) EP16808374.9	BUCHLER, Ingrid	DELIVERY AGENT AND PREPARATION
(47) 13.09.2023	WEINBERGER, Daniel	THEREOF
(87) US2016036893	(31) 201562109954 P	(73) Novo Nordisk A/S
15.12.2016	(32) 30.01.2015	(72) Vilhelmsen, Thomas
(22) 10.06.2016	(33) United States of America	(31) 201361748844 P
(54) METHODS OF USING PYRUVATE	(51) A61K 31/5395	13153422
KINASE ACTIVATORS	C07D 413/10	12160742
(73) Agios Pharmaceuticals, Inc.	C07D 417/10	(32) 04.01.2013
(72) AGRESTA, Samuel, V.	C07D 491/107	31.01.2013
CHEN, Yue	C07D 273/04	22.03.2012
COHEN, Marvin, Barry	A61P 35/00	(33) United States of America
DANG, Leonard Luan, C.	(11) EP3661517	European Patent Office (EPO)
KUNG, Charles	(21) EP18755153.6	European Patent Office (EPO)
MERICA, Elizabeth, A.	(47) 13.09.2023	(51) A61K 31/662
SILVER, Bruce, Alan	(87) EP2018071039	A61P 29/00
YANG, Hua	07.02.2019	A61P 27/02
(31) 201562174216 P	(22) 02.08.2018	(11) EP3592361
(32) 11.06.2015	(54) DIHYDROOXADIAZINONES	(21) EP18712981.2
(33) United States of America	(73) Bayer Aktiengesellschaft	(47) 13.09.2023
(51) A61K 31/52	Bayer Pharma Aktiengesellschaft	(87) FR2018050545
C07D 487/04	The Broad Institute, Inc.	13.09.2018
A61K 31/519	Dana Farber Cancer Institute, Inc.	(22) 09.03.2018
A61K 31/506	(72) ELLERMANN, Manuel	(54) AMINOPHOSPHINIC DERIVATIVES
A61P 35/02	GRADL, Stefan, Nikolaus	FOR PREVENTING AND TREATING
A61P 35/00	KOPITZ, Charlotte, Christine	OCULAR INFLAMMATION
(11) EP3484477	LANGE, Martin	(73) IACTA Pharmaceuticals, Inc.
(21) EP17828498.0	TERSTEEGEN, Adrian	(72) PORAS, Hervé
(47) 13.09.2023	LIENAU, Philip	WURM, Michel
(87) US2017042011	HEGELE-HARTUNG, Christa	MELIK PARSADANIANTZ, Stéphane

- REAux-LE GOAZIGO, Annabelle  
(31) 1759005  
1751912  
(32) 28.09.2017  
09.03.2017  
(33) France  
France
- 
- (51) A61K 31/702  
A61K 31/366  
A61K 31/7048  
A61K 45/06  
A61P 3/10  
A61P 3/00  
(11) EP4014978  
(21) EP20851898.5  
(47) 13.09.2023  
(87) CN2020105649  
18.02.2021  
(22) 30.07.2020  
(54) COMBINATION PRODUCT  
CONTAINING A LIMONOID  
COMPOUND AND ACARBOSE  
(73) ZHEJIANG YANGSHENGTANG  
INSTITUTE OF NATURAL MEDICATION  
CO., LTD.  
(72) LI, Dong  
WU, Yan  
HU, Liu  
XUE, Lian  
(31) 201910741938  
(32) 12.08.2019  
(33) China
- 
- (51) A61K 31/7034  
A61K 31/706  
A61K 31/7042  
A61K 31/704  
A61P 31/00  
C07H 7/04  
(11) EP3003322  
(21) EP14804252.6  
(47) 13.09.2023  
(87) US2014040355  
04.12.2014  
(22) 30.05.2014  
(54) MANNOSE DERIVATIVES AND  
THEIR USE IN THE TREATMENT OF  
BACTERIAL INFECTIONS  
(73) Washington University  
(72) JANETKA, James W.  
HAN, Zhenfu  
HULTGREN, Scott  
PINKNER, Jerry  
CUSUMANO, Corinne  
(31) 201361828954 P  
(32) 30.05.2013  
(33) United States of America
- 
- (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
- (47) 13.09.2023  
(87) US2017036393  
14.12.2017  
(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.  
(31) 201662348030 P  
(32) 09.06.2016  
(33) United States of America
- 
- (51) A61K 31/7105  
A61K 31/7088  
A61K 45/00  
A61K 47/42  
A61K 47/46  
A61P 35/00  
A61P 43/00  
C12N 15/113  
(11) EP3708173  
(21) EP18876388.2  
(47) 13.09.2023  
(87) JP2018041139  
16.05.2019  
(22) 06.11.2018  
(54) PHARMACEUTICAL COMPOSITION  
COMPRISING MIRNA-3140 FOR USE  
IN TREATING CANCER  
(73) Purmx Therapeutics, Inc.  
(72) TAHARA, Hidetoshi  
KINEHARA, Masaki  
YAMAMOTO, Yuki  
(31) 2017216336  
(32) 09.11.2017  
(33) Japan
- 
- (51) A61K 31/711  
A61K 31/7115  
A61K 31/712  
C07H 21/02  
C12N 15/11  
C12P 19/34  
(11) EP4140491  
(21) EP22190426.1  
(47) 13.09.2023  
(22) 20.09.2016  
(54) METHOD FOR SYNTHESIZING 5'-  
CAPPED RNAS  
(73) TriLink BioTechnologies, LLC  
(72) HOGREFFÉ, Richard I.  
LEBEDEV, Alexandre  
MCCAFFREY, Anton P.  
SHIN, Dongwon  
(31) 201562221248 P  
(32) 21.09.2015  
(33) United States of America
- 
- (51) A61K 31/715  
A61P 19/00  
(11) EP3448394  
(21) EP17723815.1  
(47) 13.09.2023  
(87) US2017029635  
02.11.2017  
(22) 26.04.2017
- (54) COMPOSITIONS FOR USE IN  
TREATING TENDON DEGENERATION  
(73) Anika Therapeutics, Inc.  
(72) WHITE, Colin, D.  
AHN, Edward, S.  
NOEL, Sekoni, Daouda  
(31) 201662367377 P  
201662328396 P  
(32) 27.07.2016  
27.04.2016  
(33) United States of America  
United States of America
- 
- (51) A61K 31/724  
C08B 37/16  
A61P 31/12  
A61P 31/14  
A61P 31/18  
A61P 31/20  
A61P 31/22  
(11) EP3487508  
(21) EP17743314.1  
(47) 13.09.2023  
(87) EP2017068291  
25.01.2018  
(22) 20.07.2017  
(54) VIRUCIDAL COMPOUNDS AND USES  
THEREOF  
(73) Ecole Polytechnique Federale de  
Lausanne (EPFL)  
(72) STELLACCI, Francesco  
JONES, Samuel  
(31) 16180726  
(32) 22.07.2016  
(33) European Patent Office (EPO)
- 
- (51) A61K 35/12  
A61K 35/34  
A61K 35/54  
A61P 21/00  
C12N 5/00  
A61B 5/00  
(11) EP3755213  
(21) EP19874774.3  
(47) 13.09.2023  
(87) CN2019085202  
05.11.2020  
(22) 30.04.2019  
(54) USES OF FETAL TISSUE EXTRACT  
(73) Alis Pharma Ltd.  
(72) LUI, May Pui-Man
- 
- (51) A61K 35/20  
A61K 38/01  
A61P 21/00  
A61K 31/12  
A61K 31/7048  
A61K 31/202  
A61K 31/352  
A23L 33/00  
A23L 2/00  
(11) EP3206699  
(21) EP15778924.9  
(47) 13.09.2023  
(87) EP2015073361  
21.04.2016  
(22) 09.10.2015  
(54) IMPROVEMENT IN MUSCLE  
FUNCTIONALITY OF ELDERLY MALES  
(73) Société des Produits Nestlé S.A.  
(72) BREUILLE, Denis

MORITANI, Toshio	(22) 05.03.2019	(54) CYCLOSPORINE FORMULATIONS
VINYES PARES, Gerard	(54) TREATMENT OF TUMORS BY A	FOR USE IN THE PREVENTION
(31) 201462063752 P	COMBINATION OF AN ONCOLYTIC	OR TREATMENT OF PULMONARY
(32) 14.10.2014	ADENOVIRUS AND A CDK4/6	CHRONIC GRAFT REJECTION
(33) United States of America	INHIBITOR	(73) Breath Therapeutics GmbH
(51) A61K 35/74	(73) Klinikum rechts der Isar der Technischen	(72) KNOCH, Martin
A61K 9/50	Universität München	DENK, Oliver
A61K 35/00	(72) HOLM, Per, Sonne	(31) 15020035
A61K 36/064	NAWROTH, Roman	(32) 16.03.2015
A61P 1/04	(31) 18000210	(33) European Patent Office (EPO)
A23L 29/262	(32) 05.03.2018	(51) A61K 38/16
A23L 33/135	(33) European Patent Office (EPO)	A61P 29/00
A61P 1/12	(51) A61K 36/744	(11) EP3999095
A61P 3/00	A61P 17/00	(21) EP20751032.2
A61P 3/04	A61K 31/702	(47) 13.09.2023
A61P 19/02	A23L 33/105	(87) US2020042540
A23P 10/30	A61P 37/08	21.01.2021
A61K 35/742	(11) EP3821901	(22) 17.07.2020
A61K 35/747	(21) EP19834453.3	(54) GHRH ANTAGONISTS FOR USE
A23L 29/00	(47) 13.09.2023	IN A METHOD OF TREATING
(11) EP2667858	(87) KR2019008506	SARCOIDOSIS
(21) EP12704722.3	16.01.2020	(73) University of Miami
(47) 13.09.2023	(22) 10.07.2019	The United States Government as
(87) EP2012051132	(54) COMPOSITION FOR PREVENTING,	Represented by the Department of
02.08.2012	ALLEVIATING OR TREATING	Veterans Affairs
(22) 25.01.2012	ALLERGIC SKIN DISEASES,	(72) MIRSAEIDI, Mehdi
(54) PROTECTION OF MICROBIAL CELLS	CONTAINING, AS ACTIVE	ZHANG, Chongxu
FROM ACIDIC DEGRADATION	INGREDIENT, EXTRACT OF	SCHALLY, Andrew
(73) Austrianova Singapore Pte Ltd.	GARDENIA FRUITS FROM WHICH	CAI, Renzhi
(72) GUENZBURG, Walter H.	PIGMENTS ARE REMOVED	(31) 201962875703 P
BRANDTNER, Eva Maria	(73) Korea Institute of Oriental Medicine	(32) 18.07.2019
SALMONS, Brian Salmons	(72) KIM, Ho Kyoung	(33) United States of America
DANGERFIELD, John A.	PARK, Sun Haeng	(51) A61K 38/18
(31) 11000578	JANG, Seol	A61K 35/19
11000577	(31) 20180080056	G01N 33/49
11000579	(32) 10.07.2018	A61K 33/06
(32) 25.01.2011	(33) Korea (Republic)	A61K 41/00
25.01.2011	(51) A61K 38/00	A61P 17/02
25.01.2011	C07K 14/435	(11) EP3738604
(33) European Patent Office (EPO)	(11) EP3463414	(21) EP20184433.9
European Patent Office (EPO)	(21) EP17803737.0	(47) 13.09.2023
European Patent Office (EPO)	(47) 13.09.2023	(22) 29.12.2016
(51) A61K 35/74	(87) US2017034870	(54) CALCIUM CONTROLLED ACTIVATION
A61K 35/741	30.11.2017	OF PLATELETS VIA ELECTRICAL
A61P 1/00	(22) 26.05.2017	STIMULATION
A61P 29/00	(54) PROTEIN INTERFACES	(73) General Electric Company
(11) EP3554517	(73) Synthex, Inc.	(72) NECULAES, Vasile Bogdan
(21) EP16867404.2	(72) CHAHWAN, Charly	TORRES, Andrew Soliz
(47) 13.09.2023	SOLOVEYCHIK, Maria	KLOPMAN, Steve Lambert
(87) IB2016002022	(31) 201662384226 P	(31) 201514984988
21.06.2018	201662342840 P	(32) 30.12.2015
(22) 16.12.2016	(32) 07.09.2016	(33) United States of America
(54) PROBIOTIC COMPOSITION	27.05.2016	(51) A61K 38/18
COMPRISING LACTOBACILLUS	(33) United States of America	A61K 38/20
RHAMNOSUS AND LACTOBACILLUS	United States of America	A61K 9/51
PARACASEI STRAINS	(51) A61K 38/13	A61K 9/16
(73) Compagnie Gervais Danone	A61P 37/06	A61K 31/573
(72) SMOKVINA, Tamara	A61K 9/00	A61P 27/16
MARTIN ROSIQUE, Rebeca	A61K 47/26	(11) EP3684343
LANGELLA, Philippe	A61K 9/127	(21) EP18858164.9
(51) A61K 35/761	A61K 9/19	(47) 13.09.2023
A61K 31/519	(11) EP3270890	(87) AU2018051029
A61P 35/00	(21) EP16711565.8	28.03.2019
(11) EP3762004	(47) 13.09.2023	(22) 20.09.2018
(21) EP19710999.4	(87) EP2016055609	(54) IMPROVED SUPRAPARTICLES
(47) 13.09.2023	22.09.2016	(73) The Bionics Institute of Australia
(87) EP2019000067	(22) 15.03.2016	The University of Melbourne
12.09.2019		(72) WISE, Andrew

CARUSO, Frank	04.10.2018	SEIDEL-DUGAN, Cynthia
BJORNMALM, Mattias	(22) 28.03.2018	WINSTON, William
MA, Yutian	(54) HUMAN PD1 PEPTIDE VACCINES AND	SALMERON-GARCIA, Jose-Andres
(31) 2018902513	USES THEREOF	NIELSON, Nels, P.
2017903829	(73) Ohio State Innovation Foundation	BRODKIN, Heather
2017903828	Mayo Foundation for Medical Education	(31) 201662438733 P
(32) 11.07.2018	and Research	(32) 23.12.2016
20.09.2017	(72) KAUMAYA, Pravin T.P.	(33) United States of America
20.09.2017	BEKALI-SAAB, Tanios	<hr/>
(33) Australia	(31) 201762477895 P	(51) A61K 45/00
Australia	(32) 28.03.2017	A61K 31/7088
Australia	(33) United States of America	A61K 31/713
<hr/>	<hr/>	A61K 48/00
(51) A61K 38/50	(51) A61K 39/00	A61P 9/00
A61P 1/00	C07K 16/28	A61P 11/00
A61K 38/14	A61P 35/00	A61P 25/00
A61K 31/70	C07K 14/47	A61P 31/00
A61K 31/43	(11) EP3430027	A61P 37/02
A61K 31/424	(21) EP17710904.8	A61P 43/00
A61K 9/16	(47) 13.09.2023	G01N 33/15
A61K 35/74	(87) EP2017056049	G01N 33/50
A61K 35/741	21.09.2017	(11) EP3769784
A61K 9/50	(22) 15.03.2017	(21) EP19772013.9
A61K 31/7056	(54) PEPTIDE FOR USE IN	(47) 13.09.2023
A61K 35/06	IMMUNOTHERAPY AGAINST NON-	(87) JP2019011851
A61K 45/06	SMALL CELL LUNG CANCER AND	26.09.2019
(11) EP3236993	SMALL CELL LUNG CANCER	(22) 20.03.2019
(21) EP15873782.5	(73) Immatics Biotechnologies GmbH	(54) COMPOSITION FOR SUPPRESSING
(47) 13.09.2023	(72) MAHR, Andrea	INFLAMMATION
(87) US2015000228	SCHOOR, Oliver	(73) Kyoto University
30.06.2016	WEINSCHENK, Toni	(72) TAKEUCHI, Osamu
(22) 23.12.2015	(31) 201604458	(31) 2018054780
(54) METHODS AND COMPOSITIONS	201662308944 P	(32) 22.03.2018
FOR INHIBITING OR PREVENTING	(32) 16.03.2016	(33) Japan
ADVERSE EFFECTS OF ORAL	16.03.2016	<hr/>
ANTIBIOTICS	(33) United Kingdom	(51) A61K 47/14
(73) Theriva Biologics, Inc.	United States of America	A61K 47/18
(72) KALEKO, Michael	<hr/>	A61K 9/08
CONNELLY, Sheila	(51) A61K 39/395	A61P 1/00
WACHER, Vincent, John	(11) EP3636279	A61P 29/00
(31) 201562256994 P	(21) EP19192583.3	A61P 19/02
201462096202 P	(47) 13.09.2023	(11) EP3488868
(32) 18.11.2015	(22) 30.03.2012	(21) EP17203276.5
23.12.2014	(54) METHODS FOR INCREASING	(47) 13.09.2023
(33) United States of America	EFFICACY OF FOLR1 CANCER	(22) 23.11.2017
United States of America	THERAPY	(54) PHARMACEUTICAL COMPOSITION
<hr/>	(73) ImmunoGen, Inc.	FOR ORAL ADMINISTRATION
(51) A61K 39/00	(72) Carrigan, Christina	CONTAINING SULFASALAZINE AND /
A61P 37/06	Whiteman, Kathleen R.	OR A SULFASALAZINE ORGANIC
(11) EP3332801	Payne, Gillian	SALT, PRODUCTION PROCESS AND
(21) EP17191973.1	Ladd, Sharron	USE
(47) 13.09.2023	(31) 201161471007 P	(73) medac Gesellschaft für klinische
(22) 12.03.2009	(32) 01.04.2011	Spezialpräparate mbH
(54) DNA VACCINES AND METHODS	(33) United States of America	(72) Menonides-Harsema, Marguerite M.
FOR THE PREVENTION OF	<hr/>	Bialleck, Sebastian
TRANSPLANTATION REJECTION	(51) A61K 39/395	Schuldt-Lieb, Sonja
(73) LOMA LINDA UNIVERSITY	C07K 16/28	<hr/>
(72) LI, Fengchun	G01N 33/53	(51) A61K 47/44
ESCHER, Alan P.	A61P 35/00	C08L 91/06
(31) 36004 P	A61K 39/00	(11) EP3995151
(32) 12.03.2008	(11) EP3558365	(21) EP21211618.0
(33) United States of America	(21) EP17835532.7	(47) 13.09.2023
<hr/>	(47) 13.09.2023	(22) 16.10.2019
(51) A61K 39/00	(87) US2017067782	(54) LIPID COMPOSITION FOR
C07K 14/71	28.06.2018	ENCAPSULATING AN ACTIVE
C07K 14/705	(22) 21.12.2017	SUBSTANCE AND ALLOWING
C07K 16/28	(54) ANTI-NEUROFILIN ANTIGEN-BINDING	CONTROL OF THE SPEED OF
(11) EP3600398	PROTEINS AND METHODS OF USE	RELEASE OF SAID ACTIVE
(21) EP18778305.5	THEREOF	SUBSTANCE
(47) 13.09.2023	(73) Potenza Therapeutics, Inc.	(73) Société d'Exploitation de Produits pour
(87) US2018024831	(72) HICKLIN, Daniel	les Industries Chimiques SEPPIC

- (72) Faget, Sophie  
Lefebvre, Sandra  
(31) 1859696  
(32) 19.10.2018  
(33) France
- 
- (51) A61K 48/00  
C12N 15/00  
C07H 21/04  
(11) EP3515506  
(21) EP17853972.2  
(47) 13.09.2023  
(87) US2017052919  
29.03.2018  
(22) 22.09.2017  
(54) SILENCING OF DUX4 BY  
RECOMBINANT GENE EDITING  
COMPLEXES  
(73) University of Massachusetts  
(72) JONES, Peter, L.  
HIMEDA, Charis, L.  
JONES, Takako  
(31) 201662398801 P  
(32) 23.09.2016  
(33) United States of America
- 
- (51) A61K 51/12  
A61K 9/16  
A61K 47/38  
A61K 47/30  
A61P 35/00  
(11) EP2968165  
(21) EP14776008.6  
(47) 13.09.2023  
(87) US2014025023  
02.10.2014  
(22) 12.03.2014  
(54) COMPOSITIONS AND ASSOCIATED  
METHODS FOR RADIOISOTOPE-  
BINDING MICROPARTICLES  
(73) BIOSPHERE MEDICAL, INC.  
(72) REB, Philippe  
CHAIX, Celine  
(31) 201361779712 P  
(32) 13.03.2013  
(33) United States of America
- 
- (51) A61L 2/04  
A61L 2/20  
(11) EP3875120  
(21) EP20161116.7  
(47) 13.09.2023  
(22) 05.03.2020  
(54) METHOD OF STERILIZING  
ABSORBENT ARTICLES  
(73) Ontex BV  
Ontex Group NV  
(72) Angelozzi, Pierluigi  
De Lucia, Costantino  
Montepara, Donatella Paola
- 
- (51) A61L 9/12  
C04B 33/04  
C04B 33/32  
(11) EP3978037  
(21) EP20199176.7  
(47) 13.09.2023  
(22) 30.09.2020  
(54) SYSTEM FOR ODORIZING AREAS  
(73) Stearinos OOD  
(72) WITTEKIND, Herbert
- 
- (51) A61L 15/26  
A61L 15/42  
A61L 15/44  
(11) EP3727482  
(21) EP18842743.9  
(47) 13.09.2023  
(87) IB2018060463  
27.06.2019  
(22) 20.12.2018  
(54) BIOMEDICAL FOAM  
(73) Stryker European Operations Holdings  
LLC  
(72) JACOBS, Johannes Jacobus  
STANLEY, Colin  
(31) 201762608256 P  
(32) 20.12.2017  
(33) United States of America
- 
- (51) A61L 15/58  
A61L 24/06  
C09J 133/08  
(11) EP3755386  
(21) EP19711975.3  
(47) 13.09.2023  
(87) FR2019050386  
29.08.2019  
(22) 20.02.2019  
(54) COMPOSITION HAVING EXCELLENT  
WATER VAPOR PERMEABILITY  
(73) URGO RECHERCHE INNOVATION ET  
DEVELOPPEMENT  
(72) DANÉROL, Anne-Sophie  
GUILLAMAUD, Christelle  
PERNOT, Jean-Marc  
(31) 1851443  
(32) 20.02.2018  
(33) France
- 
- (51) A61L 27/36  
A61L 2/08  
A61L 27/54  
(11) EP3766527  
(21) EP20188377.4  
(47) 13.09.2023  
(22) 19.01.2017  
(54) OSTEOINDUCTIVE BONE IMPLANT  
AND METHOD FOR ITS IRRADIATION  
WITH ELECTRON BEAMS  
(73) Warsaw Orthopedic, Inc.  
(72) SCHLACHTER, Kelly W.  
VASQUEZ, Erick  
SHIMKO, Daniel A.  
(31) 201615008676  
(32) 28.01.2016  
(33) United States of America
- 
- (51) A61L 27/36  
A61L 27/52  
A61L 26/00  
A61P 17/02  
A61K 35/50  
A61K 31/726  
A61K 38/17  
A61K 38/39  
A61K 38/36  
(11) EP3200809  
(21) EP15847740.6  
(47) 13.09.2023  
(87) US2015053571  
07.04.2016  
(22) 01.10.2015
- 
- (54) AMNIOTIC MEMBRANE POWDER AND  
ITS USE IN WOUND HEALING AND  
TISSUE ENGINEERING CONSTRUCTS  
(73) Wake Forest University Health Sciences,  
Inc.  
(72) MURPHY, Sean V.  
SKARDAL, Aleksander  
ATALA, Anthony  
(31) 201462058969 P  
(32) 02.10.2014  
(33) United States of America
- 
- (51) A61L 27/38  
A61F 2/14  
A61K 35/30  
A61P 27/00  
C12N 5/079  
(11) EP3549617  
(21) EP19155369.2  
(47) 13.09.2023  
(22) 12.07.2011  
(54) BIOCOMPATIBLE SUBSTRATE FOR  
FACILITATING INTERCONNECTIONS  
BETWEEN STEM CELLS AND TARGET  
TISSUES AND METHODS FOR  
IMPLANTING SAME  
(73) University of Southern California  
California Institute of Technology  
The Regents of University of California  
(72) Humayun, Mark  
Ahuja, Ashish  
Tai, Yu-Chong  
Hinton, David  
Grubbs, Robert  
Clegg, Dennis  
Johnson, Lincoln Vallance  
Hikita, Sherry T  
(31) 201161481004 P  
36363010 P  
38783010 P  
(32) 29.04.2011  
12.07.2010  
29.09.2010  
(33) United States of America  
United States of America  
United States of America
- 
- (51) A61L 31/02  
A61L 31/08  
A61L 31/10  
A61L 31/14  
A61L 31/16  
(11) EP3733221  
(21) EP18897786.2  
(47) 13.09.2023  
(87) CN2018121678  
04.07.2019  
(22) 18.12.2018  
(54) IMPLANTABLE DRUG DELIVERY  
DEVICE  
(73) Biotyx Medical (Shenzhen) Co., Ltd.  
(72) QIN, Li  
LIN, Wenjiao  
LIU, Ziqiang  
ZHANG, Deyuan  
(31) 201711461899  
(32) 28.12.2017  
(33) China
- 
- (51) A61M 1/02  
A61M 1/36

G01N 33/49	BALANZONI, Roberto	(31) 201662350905 P
B01L 3/00	PETRALIA, Antonio	(32) 16.06.2016
G01N 35/00	(31) 201700107088	(33) United States of America
G01N 1/40	(32) 25.09.2017	(51) A61M 5/142
F16K 99/00	(33) Italy	A61M 39/10
(11) EP3519005	(51) A61M 5/14	A61M 39/02
(21) EP17783681.4	A61G 12/00	A61M 25/02
(47) 13.09.2023	G21F 7/00	A61J 1/20
(87) US2017054134	A61B 6/03	A61M 5/158
12.04.2018	A61B 6/00	(11) EP3319662
(22) 28.09.2017	A61B 90/00	(21) EP16822003.6
(54) CENTRIFUGAL FLUID SEPARATION DEVICE	A61M 5/142	(47) 13.09.2023
(73) Terumo BCT, Inc.	A61M 5/145	(87) US2016041395
(72) LADTKOW, James R.	A61M 5/36	12.01.2017
HLAVINKA, Dennis J.	G21G 1/00	(22) 07.07.2016
FELT, Thomas J.	A61M 5/168	(54) INFUSION SYSTEM AND COMPONENTS THEREOF
GLOOR, Andrew	G16H 20/17	(73) Trustees of Boston University
JANZEN, Jesse	G16Z 99/00	(72) DAMIANO, Edward, R.
POLODNA, Taylor	A61M 5/00	EL-KHATIB, Firas, H.
STORM, Luke Edwin	(11) EP3666313	SELAGAMSETTY, Rajendranath
(31) 201762500021 P	(21) EP20155594.3	RAMEY, Kirk, D.
201662416519 P	(47) 13.09.2023	(31) 201662353210 P
201662403312 P	(22) 11.06.2009	201562254950 P
(32) 02.05.2017	(54) INFUSION SYSTEMS INCLUDING COMPUTER-FACILITATED MAINTENANCE	201562190212 P
02.11.2016	(73) Bracco Diagnostics Inc.	(32) 22.06.2016
03.10.2016	(72) ZODDA, Julius, P.	13.11.2015
(33) United States of America	HUNTER, Kathryn, M.	08.07.2015
United States of America	SWENSON, Rolf, E.	(33) United States of America
United States of America	FONTAINE, Aaron, M.	United States of America
(51) A61M 1/16	HIDEM, Stephen, E.	United States of America
B01D 61/28	MCDONALD, Patrick, M.	(51) A61M 5/315
A61M 1/36	GELBACH, Janet, L.	(11) EP3753593
(11) EP4153263	(31) 13735608	(21) EP20171265.0
(21) EP22728557.4	13736308	(47) 13.09.2023
(47) 13.09.2023	13737708	(22) 28.03.2012
(87) EP2022062696	13736408	(54) PLASTIC STOPPER
17.11.2022	(32) 11.06.2008	(73) Becton, Dickinson and Company
(22) 10.05.2022	11.06.2008	(72) IVOSEVIC, Milan
(54) ELECTROLYTE-BALANCING MODULE	11.06.2008	YEMANE TEKESTE, Girum
(73) B. Braun Avitum AG	11.06.2008	WONG, Andrew
(72) JANI, Waldemar	(33) United States of America	QUINN, Michael, Vincent
(31) 102021112322	United States of America	BARANSKI, Andrzej
(32) 11.05.2021	United States of America	(31) 201161468304 P
(33) Germany	United States of America	(32) 28.03.2011
(51) A61M 1/36	United States of America	(33) United States of America
(11) EP3797805	(51) A61M 5/142	(51) A61M 5/315
(21) EP20197901.0	A61M 5/168	A61M 5/24
(47) 13.09.2023	A61M 5/315	(11) EP3552640
(22) 23.09.2020	A61M 39/28	(21) EP18166373.3
(54) BLOOD TREATMENT DEVICE WITH AUTOMATIC AIR REMOVAL	(11) EP3471796	(47) 13.09.2023
(73) B. Braun Avitum AG	(21) EP17814195.8	(22) 09.04.2018
(72) BOCZ, Máté	(47) 13.09.2023	(54) AN OPTICAL SYSTEM AND A SUPPLEMENTAL DATA COLLECTING DEVICE FOR A MEDICAMENT DELIVERY DEVICE AND THE MEDICAMENT DELIVERY DEVICE ASSEMBLY
GOLARITS, István	(87) US2017037929	(73) SHL Medical AG
TÉNYI, Botond	21.12.2017	(72) WANG, Yung-han
(31) 102019126189	(22) 16.06.2017	LIN, Chih-Shuen
(32) 27.09.2019	(54) ASSEMBLIES AND METHODS FOR INFUSION PUMP SYSTEM ADMINISTRATION SETS	(51) A61M 5/315
(33) Germany	(73) Smiths Medical ASD, Inc.	A61M 5/31
(51) A61M 1/36	(72) ADAMS, Grant A.	(11) EP3723828
(11) EP3797807	DROST, James B.	(21) EP18836978.9
(21) EP20206514.0	LACY, Christopher A.	(47) 13.09.2023
(47) 13.09.2023	SANBORN, Jonathan	(87) US2018065192
(22) 25.09.2018	ADAMSON, Daniel L.	20.06.2019
(54) BLOOD FILTERING DEVICE	BORGAONKAR, Harshad	
(73) Eurosets S.r.l.	PAI, Sameer	
(72) GHELLI, Nicola	RILEY, Sean	
COSTA MAIANTI, Edgardo		

- (22) 12.12.2018  
 (54) DEVICES AND METHODS FOR  
 PRECISION DOSE DELIVERY  
 (73) Regeneron Pharmaceuticals, Inc.  
 (72) ULLA, Sibgat  
 LAICONA, Danielle  
 KENYON, Ross  
 LANGLEY, Trevor  
 GRYGUS, Bryan  
 HOUDE, Eric  
 MCNAMARA, Jeremy  
 VENUTO, Kathryn  
 (31) 201862722252 P  
 201862676047 P  
 201762598212 P  
 (32) 24.08.2018  
 24.05.2018  
 13.12.2017  
 (33) United States of America  
 United States of America  
 United States of America  


---

 (51) A61M 11/00  
 A61M 15/00  
 (11) EP4007626  
 (21) EP20742299.9  
 (47) 13.09.2023  
 (87) EP2020070890  
 11.02.2021  
 (22) 23.07.2020  
 (54) BUCCAL ADMINISTRATION OF  
 AEROSOL  
 (73) Stamford Devices Limited  
 (72) TELFER, Colin  
 POWER, Patrick  
 (31) 19189887  
 (32) 02.08.2019  
 (33) European Patent Office (EPO)  


---

 (51) A61M 11/00  
 A61M 15/08  
 B05B 11/02  
 (11) EP4076602  
 (21) EP20845584.0  
 (47) 13.09.2023  
 (87) FR2020052456  
 24.06.2021  
 (22) 15.12.2020  
 (54) DEVICE FOR DISPENSING A FLUID  
 PRODUCT  
 (73) APTAR France SAS  
 (72) BAILLIE, Mickaël  
 HUPPÉ, Maxime  
 NORRANT, Matthieu  
 (31) 1915029  
 (32) 19.12.2019  
 (33) France  


---

 (51) A61M 16/06  
 (11) EP3773843  
 (21) EP19775829.5  
 (47) 13.09.2023  
 (87) AU2019050278  
 03.10.2019  
 (22) 28.03.2019  
 (54) PATIENT INTERFACE  
 (73) ResMed Pty Ltd  
 (72) EVES, Matthew  
 GOLDSPINK, Lachlan Richard  
 YEW, Robin  
 BALUCHAGI, Ravikumar  
 (31) 201862731456 P  
 201862649376 P  
 (32) 14.09.2018  
 28.03.2018  
 (33) United States of America  
 United States of America  


---

 (51) A61M 16/06  
 A61M 16/08  
 (11) EP3915622  
 (21) EP21186150.5  
 (47) 13.09.2023  
 (22) 10.06.2016  
 (54) VENTILATION MASK  
 (73) SunMed Group Holdings, LLC  
 (72) PEDRO, Michael, J.  
 CATALDO, Steven, H.  
 KANE, David, M.  
 REILLY, Thomas  
 REDFORD, Ryan G.  
 (31) 201662324197 P  
 201662319686 P  
 201662308127 P  
 201662301359 P  
 201662298295 P  
 201662298265 P  
 201662286165 P  
 201562255120 P  
 201562253512 P  
 201562253520 P  
 201562253528 P  
 201562245794 P  
 201562245810 P  
 201562204899 P  
 201562174410 P  
 (32) 18.04.2016  
 07.04.2016  
 14.03.2016  
 29.02.2016  
 22.02.2016  
 22.02.2016  
 22.01.2016  
 13.11.2015  
 10.11.2015  
 10.11.2015  
 10.11.2015  
 23.10.2015  
 23.10.2015  
 13.08.2015  
 11.06.2015  
 (33) United States of America  
 United States of America  
 United States of America  
 United States of America  
 United States of America  
 United States of America  
 United States of America  
 United States of America  
 United States of America  
 United States of America  
 United States of America  
 United States of America  
 United States of America  
 United States of America  
 United States of America  
 United States of America  
 United States of America  
 United States of America  
 United States of America  


---

 (51) A61M 16/08  
 A61M 16/20  
 (11) EP3738637  
 (21) EP20160198.6  
 (47) 13.09.2023  
 26.09.2012  
 (54) COUPLER FOR A RESPIRATORY  
 TREATMENT APPARATUS  
 (73) ResMed Paris SAS  
 (72) TAYLOR, Kenneth  
 CORK, Simon Robert  
 THOMAS, Jonathan Huw  
 NG, Eva  
 LEAVENS, Benjamin John  
 BRAMBILLA, Enrico  
 VAN REGTEREN, Frank  
 CHALVIGNAC, Philippe Auguste  
 ZIOLKOWSKI, Zdislaw Antoni  
 YEE, Arthur Kin-Wai  
 CRUMBLIN, Geoffrey  
 CREUSOT, David  
 (31) 201213624167  
 201213613958  
 201161539258 P  
 (32) 21.09.2012  
 13.09.2012  
 26.09.2011  
 (33) United States of America  
 United States of America  
 United States of America  


---

 (51) A61M 16/12  
 A61M 16/06  
 A61M 16/20  
 (11) EP4157413  
 (21) EP21727444.8  
 (47) 13.09.2023  
 (87) EP2021063251  
 02.12.2021  
 (22) 19.05.2021  
 (54) OXYGEN PEP CANNULA  
 (73) Koninklijke Philips N.V.  
 (72) TROXELL, David Aaron  
 TRUSCHEL, William Anthony  
 HOFFMAN, Raymond  
 (31) 202063031633 P  
 (32) 29.05.2020  
 (33) United States of America  


---

 (51) A61M 16/12  
 A61M 16/20  
 F01N 1/00  
 F16K 47/00  
 (11) EP4052751  
 (21) EP22157229.0  
 (47) 13.09.2023  
 (22) 17.02.2022  
 (54) APPARATUS FOR FORCED  
 VENTILATION OF PATIENTS AND  
 RELATED FORCED VENTILATION  
 SYSTEM  
 (73) Intersurgical S.P.A.  
 (72) PALTRINIEMI, Andrea  
 (31) 202100004643  
 (32) 01.03.2021  
 (33) Italy  


---

 (51) A61M 25/00  
 A61M 25/09  
 (11) EP3842091  
 (21) EP21156579.1  
 (47) 13.09.2023  
 (22) 25.05.2018



(54) MICRO-FABRICATED MEDICAL DEVICE HAVING A NON-HELICAL CUT ARRANGEMENT	(51) A61M 25/09 A61M 25/06 A61M 29/00	(51) A61M 37/00 F16H 25/08 F16H 23/02 A01K 11/00
(73) Scientia Vascular, Inc.	(11) EP3758784	(11) EP3725358
(72) DAVIS, Clark C. LIPPERT, John A.	(21) EP19710549.7 (47) 13.09.2023	(21) EP19169338.1 (47) 13.09.2023
(31) 201762595425 P 201762511605 P	(87) US2019019640 06.09.2019	(22) 15.04.2019
(32) 06.12.2017 26.05.2017	(22) 26.02.2019	(54) HAND-HELD DEVICE AND DRIVE SYSTEM AND DRIVE MODULE FOR A HAND-HELD DEVICE FOR LOCAL PIERCING OF HUMAN OR ANIMAL SKIN
(33) United States of America United States of America	(54) GUIDEWIRE RETENTION DEVICE (73) Smiths Medical ASD, Inc. (72) BIERMAN, Steven F.	(73) MT.DERM GmbH (72) SCHERKOWSKI, Dirk
(51) A61M 25/02 A61M 5/142	(31) 201815942217 201862648522 P 201862637317 P	(51) A61M 39/10 A61M 39/12 B29D 23/00 B29C 45/14 B29C 70/76 F16L 13/11 F16L 33/34 F16L 47/02 F16L 47/14 F16L 47/20 F16L 47/32 B29C 65/54 B29C 65/70 B29C 65/00 B29C 65/02
(11) EP2788069 (21) EP12809000.8 (47) 13.09.2023 (87) US2012068117 13.06.2013	(32) 30.03.2018 27.03.2018 01.03.2018	(11) EP3283160 (21) EP16722731.3 (47) 13.09.2023 (87) US2016027974 20.10.2016 (22) 15.04.2016
(22) 06.12.2012	(33) United States of America United States of America United States of America	(54) MODULAR MOLDING (73) Meissner Filtration Products, Inc. (72) BLOMBERG, Max D. (31) 201562149031 P (32) 17.04.2015 (33) United States of America
(54) ADHESIVE BACKED IV CATHETER WITH AUTO RELEASE LINER	(51) A61M 37/00	(51) A61M 60/148 A61M 60/274 A61M 60/178 A61M 60/462 A61M 60/515 A61M 60/538 A61M 60/873
(73) Becton, Dickinson and Company	(11) EP3927412	(11) EP2968716
(72) PETERSON, Bart D. SOUZA, Marcel A. PETERSON, Darin L. KHAN, Azhar J.	(21) EP20706234.0 (47) 13.09.2023 (87) EP2020054362 27.08.2020	(21) EP14721669.1 (47) 13.09.2023 (87) US2014030472 18.09.2014
(31) 201213706076 201161568082 P	(22) 19.02.2020	(22) 17.03.2014
(32) 05.12.2012 07.12.2011	(54) APPLICATOR FOR MICRONEEDLE PATCH	(54) THORACIC AORTA VENTRICULAR ASSIST SYSTEM
(33) United States of America United States of America	(73) LTS Lohmann Therapie-Systeme AG (72) BEE, Markus HACKBARTH, Ronald	(73) VASCOR, Inc. (72) HEILMAN, Marlin, S. KOHLE, Charles, R. REILLY, David, M. WAGNER, Jon, D. BADSTIBNER, Kurt, D. BATES, Richard, A. SPEICHER, Jonathan, R. RUSSIAL, Joseph, F.
(51) A61M 25/06 A61M 39/06 A61M 25/00	(31) 102019001251 (32) 21.02.2019	(31) 201361788030 P (32) 15.03.2013
(11) EP3436128 (21) EP17715889.6 (47) 13.09.2023 (87) US2017024289 05.10.2017	(33) Germany	
(22) 27.03.2017	(51) A61M 37/00	
(54) TWO-PART INSERTION TOOL	(11) EP3718595	
(73) Surmodics, Inc.	(21) EP18884522.6	
(72) JELLE, Bruce M. SLAGER, Joram MCGONIGLE, Joseph Schmidt LOCKWOOD, Nathan A.	(47) 13.09.2023 (87) JP2018041241 06.06.2019	
(31) 201715467554 201662316153 P	(87) JP2018041241 06.06.2019	
(32) 23.03.2017 31.03.2016	(22) 06.11.2018	
(33) United States of America United States of America	(54) APPLICATOR, CARTRIDGE, AND APPLICATION KIT	
(51) A61M 25/09	(73) Hisamitsu Pharmaceutical Co., Inc. (72) TAJIMA Takuya YAMAMOTO Naoki TOKUMOTO Seiji	
(11) EP3713634 (21) EP18819404.7 (47) 13.09.2023 (87) US2018062028 31.05.2019	(31) 2017230459 (32) 30.11.2017 (33) Japan	
(22) 20.11.2018	(51) A61M 37/00 A61B 5/15	
(54) MEDICAL DEVICES	(11) EP3897809	
(73) Boston Scientific Scimed, Inc.	(21) EP19842895.5 (47) 13.09.2023	
(72) CHU, Michael, S. H. TAH, Richard, C.	(87) JP2019051644 25.06.2020	
(31) 201762588979 P	(22) 18.12.2019	
(32) 21.11.2017	(54) KIT AND COSMETIC PROCESS USING MICRONEEDLE SHEET	
(33) United States of America	(73) L'OREAL (72) LIU, Shu AGARWAL, Gaurav	
	(31) 2018239583 (32) 21.12.2018 (33) Japan	

(33) United States of America	NGUYEN, Vu	(54) RADIATION THERAPY SYSTEM WITH MULTIPLE X-RAY IMAGERS FOR NEAR REALTIME LOCALIZATION
(51) A61N 1/05	VAN BUEREN, Nienke	(73) Varian Medical Systems, Inc.
(11) EP3383479	(31) 202000874	(72) VAN HETEREN, John
(21) EP16871140.6	(32) 21.01.2020	ZHU, Liangjia
(47) 13.09.2023	(33) United Kingdom	MORF, Daniel
(87) SE2016000072	(51) A61N 1/372	SCHEIB, Stefan Georg
08.06.2017	A61N 1/36	PAYSAN, Pascal
(22) 21.11.2016	(11) EP4008397	(31) 201916452505
(54) HAEMORRHAGE AVOIDING MICROELECTRODE	(21) EP22150063.0	201862711483 P
(73) Neuronano AB	(47) 13.09.2023	(32) 25.06.2019
(72) SCHOUENBORG, Jens	(22) 15.02.2018	28.07.2018
MOHAMMED, Mohsin	(54) HEADPIECES AND IMPLANTABLE COCHLEAR STIMULATION SYSTEMS INCLUDING THE SAME	(33) United States of America
(31) 1500491	(73) Advanced Bionics AG	United States of America
(32) 30.11.2015	(72) Brehm, Andreas, Benedikt	(51) A61N 5/10
(33) Sweden	Trautner, Markus	(11) EP3829710
(51) A61N 1/05	Smith, James, George, Elcoate	(21) EP19758621.7
A61N 1/36	(51) A61N 5/10	(47) 13.09.2023
A61B 5/24	(11) EP3655098	(87) EP2019070362
(11) EP3906089	(21) EP18752096.0	06.02.2020
(21) EP20736233.6	(47) 13.09.2023	(22) 29.07.2019
(47) 13.09.2023	(87) EP2018069592	(54) ELECTRONIC SHUTTER IN A RADIATION THERAPY SYSTEM
(87) SE2020000001	24.01.2019	(73) Varian Medical Systems, Inc.
09.07.2020	(22) 19.07.2018	(72) KELLER, Simon
(22) 03.01.2020	(54) GEOMETRIC ASPECTS OF RADIATION THERAPY PLANNING AND TREATMENT	MORF, Daniel
(54) PROBE FOR IMPLANTATION INTO NERVOUS TISSUE COMPRISING A MICROELECTRODE OR A SET OF MICROELECTRODES	(73) Siemens Healthineers International AG	MUNRO, Peter
(73) Neuronano AB	Varian Medical Systems Inc	(31) 201862711483 P
(72) SCHOUENBORG, Jens	(72) VANDERSTRATEN, Reynald	(32) 28.07.2018
(31) 1800248	ABEL, Eric	(33) United States of America
(32) 04.01.2019	SMITH, Christel	(51) A61P 1/14
(33) Sweden	MAGLIARI, Anthony	A23K 20/111
(51) A61N 1/36	KOPONEN, Timo	A23K 20/132
A61B 5/24	STAR-LACK, Josh	A23K 50/10
A61B 5/00	(31) 201715657052	A23K 50/40
A61N 1/05	(32) 21.07.2017	A61P 43/00
(11) EP3870274	(33) United States of America	A61K 38/25
(21) EP19876581.0	(51) A61N 5/10	A61K 9/00
(47) 13.09.2023	(11) EP3829707	A61K 9/08
(87) AU2019051151	(21) EP19752785.6	A61K 31/437
30.04.2020	(47) 13.09.2023	A61K 45/06
(22) 22.10.2019	(87) US2019043826	(11) EP3524260
(54) DEVICE FOR CONTROLLED NEURAL STIMULATION	06.02.2020	(21) EP19161662.2
(73) Saluda Medical Pty Ltd	(22) 27.07.2019	(47) 13.09.2023
(72) PARKER, John Louis	(54) RADIATION THERAPY SYSTEM USING A DIGITAL TOMOSYNTHESIS PROCESS FOR NEAR REAL-TIME LOCALIZATION	(22) 27.09.2013
GORMAN, Robert Bruce	(73) Varian Medical Systems, Inc.	(54) PHARMACEUTICAL COMPOSITIONS FOR TREATMENT OF INAPPETENCE
(31) 2018904011	(72) VAN HETEREN, John	(73) Elanco Animal Health Incorporated
(32) 23.10.2018	ZHU, Liangjia	(72) Zollers, Bill
(33) Australia	MORF, Daniel	Rhodes, Linda
(51) A61N 1/36	(31) 201916452498	Heinen, Ernst
A61N 1/04	201862711483 P	Devaraj, Gopinath
(11) EP4093494	(32) 25.06.2019	(31) 201261706164 P
(21) EP21702066.8	28.07.2018	(32) 27.09.2012
(47) 13.09.2023	(33) United States of America	(33) United States of America
(87) GB2021050123	United States of America	(51) A61P 5/08
29.07.2021	(51) A61N 5/10	A61M 5/315
(22) 20.01.2021	(11) EP3829708	A61K 38/25
(54) METHOD FOR OBTAINING PERSONALIZED PARAMETERS FOR TRANSCRANIAL STIMULATION, TRANSCRANIAL STIMULATION SYSTEM	(21) EP19752786.4	(11) EP3773682
(73) The University of Surrey	(47) 13.09.2023	(21) EP19712611.3
(72) COHEN KADOSH, Roi	(87) US2019043827	(47) 13.09.2023
REED, Thomas	06.02.2020	(87) EP2019057845
	(22) 28.07.2019	03.10.2019
		(22) 28.03.2019
		(54) INJECTABLE PRESENTATIONS, SYRINGES AND COMPOSITIONS WITH

SUSTAINED AND/OR CONTROLLED RELEASE OF LANREOTIDE	C07D 491/22 A61K 31/4375 A61K 47/50	(73) Hilti Aktiengesellschaft (72) MÜNZENBERGER, Herbert (31) 17157383 (32) 22.02.2017 (33) European Patent Office (EPO)
(73) Edix SA (72) GONZALEZ GARCIA, Maria Isabel ROCA TORRELLAS, José Maria BOURGOIS, Tabatha LACHAMP, Laurence LACOMBE, Frederic	(11) EP3958977 (21) EP20722197.9 (47) 13.09.2023 (87) US2020027831 29.10.2020 (22) 10.04.2020 (54) CAMPTOTHECIN DERIVATIVES (73) ImmunoGen, Inc. (72) CHARI, Ravi WIDDISON, Wayne, C. LI, Wei PLEYNET, David, P. (31) 202062978159 P 201962875169 P 201962839440 P (32) 18.02.2020 17.07.2019 26.04.2019 (33) United States of America United States of America United States of America	(51) A62C 35/68 A62C 37/44 F16K 37/00 A62C 37/50 F16K 1/20 F16K 27/02 (11) EP3233217 (21) EP15819811.9 (47) 13.09.2023 (87) EP2015080328 23.06.2016 (22) 17.12.2015 (54) FIRE EXTINGUISHING SYSTEM VALVE AND FIRE EXTINGUISHING SYSTEM HAVING SUCH A VALVE (73) Minimax GmbH (72) POHL, Matthias (31) 102014226639 (32) 19.12.2014 (33) Germany
(31) 1852662 (32) 28.03.2018 (33) France	(51) A61P 19/08 (11) EP3021943 (21) EP14827030.9 (47) 13.09.2023 (87) US2014046852 22.01.2015 (22) 16.07.2014 (54) ENHANCEMENT OF OSTEOGENIC POTENTIAL OF BONE GRAFTS (73) The Board of Trustees of the Leland Stanford Junior University (72) DHAMDHERE, Girija HELMS, Jill (31) 201361957946 P (32) 16.07.2013 (33) United States of America	(51) A63B 35/08 B63H 5/07 B63C 11/46 (11) EP3854463 (21) EP18937589.2 (47) 13.09.2023 (87) CN2018115068 30.04.2020 (22) 12.11.2018 (54) HAND-HELD WATERCRAFT (73) Boya Gongdao (Beijing) Robot Technology Co., Ltd. (72) XIONG, Minglei CHEN, Longdong CHEN, Yijun LI, Haijie WANG, Kai (31) 201821709853 U 201811229761 (32) 22.10.2018 22.10.2018 (33) China China
(51) A61P 31/04 C07C 229/24 C07C 229/26 A61P 31/10 A61P 31/20 A61P 31/12 A61P 31/22 A61K 31/221 (11) EP3568203 (21) EP18700836.2 (47) 13.09.2023 (87) SG2018050012 19.07.2018 (22) 10.01.2018 (54) COMPOUNDS AND COMPOSITIONS (73) RHEA GENETICS PTE. LTD. (72) BABIKYAN, Gaik JIARAVANON, Benjamin (31) 201700404 (32) 10.01.2017 (33) United Kingdom	(51) A61Q 11/02 A61K 8/02 A61K 8/19 A61K 8/41 (11) EP3668606 (21) EP18739865.6 (47) 13.09.2023 (87) EP2018069384 21.02.2019 (22) 17.07.2018 (54) METHOD OF CONTROLLING STAINING OF TEETH DUE TO CATIONIC ANTIMICROBIAL AGENT (73) Unilever IP Holdings B.V. (72) CHANDRASEKARAN, Sembian IYER, Meenakshi TRIVEDI, Neha (31) 17186556 (32) 17.08.2017 (33) European Patent Office (EPO)	(51) A62B 7/02 (11) EP3932493 (21) EP21180546.0 (47) 13.09.2023 (22) 21.06.2021 (54) OXYGEN SELF RESCUE DEVICE AND METHOD FOR AN OXYGEN SELF RESCUE DEVICE (73) Dräger Safety AG & Co. KGaA (72) Tralau, Timo (31) 102020117130 (32) 30.06.2020 (33) Germany
(51) A61P 35/00 A61K 38/16 A61K 39/395 (11) EP3810279 (21) EP19734322.1 (47) 13.09.2023 (87) EP2019066295 26.12.2019 (22) 19.06.2019 (54) A COMBINATION COMPRISING USING AN OLIGOPEPTIDIC COMPOUND AND ANTI-PD-1 OR PD-L1 ANTIBODY FOR USE IN TREATING NEOPLASTIC CONDITIONS (73) Cytovation ASA (72) PRESTEGARDEN, Lars (31) 201810058 (32) 19.06.2018 (33) United Kingdom	(51) A62B 7/02 (11) EP3932493 (21) EP21180546.0 (47) 13.09.2023 (22) 21.06.2021 (54) OXYGEN SELF RESCUE DEVICE AND METHOD FOR AN OXYGEN SELF RESCUE DEVICE (73) Dräger Safety AG & Co. KGaA (72) Tralau, Timo (31) 102020117130 (32) 30.06.2020 (33) Germany (51) A62C 2/06 F16L 5/04 H02G 3/22 H02G 3/04 (11) EP3586050 (21) EP18703323.8 (47) 13.09.2023 (87) EP2018052997 30.08.2018 (22) 07.02.2018 (54) FIRE RETARDANT ELEMENT	(51) A63B 69/00 (11) EP4045159 (21) EP20793751.7 (47) 13.09.2023 (87) FR2020051717 22.04.2021 (22) 30.09.2020 (54) CLIMBING HOLD ASSOCIATED WITH A RADIO IDENTIFICATION ELEMENT (73) X'Sin (72) GARNIER, Denis ARVIEU, Rémy (31) 1911515 (32) 16.10.2019 (33) France (51) A63B 69/00 A63B 69/40 A63B 71/00 A63B 71/02 (11) EP4074388
(51) A61P 35/00	(51) A62B 7/02	(51) A63B 69/00

(21) EP20842590.0	(47) 13.09.2023	(54) SYSTEMS AND METHODS FOR
(47) 13.09.2023	(22) 27.04.2006	SANITIZING AMUSEMENT PARK
(87) ES2020070777	(54) CENTER DEVICE	EQUIPMENT
17.06.2021	(73) Sony Interactive Entertainment Inc.	(73) Universal City Studios LLC
(22) 10.12.2020	(72) HINO, Mariko	(72) MAJDALI, David
(54) SYSTEM AND METHOD FOR	HASHIMOTO, Satoshi	UGRIN, John
LAUNCHING A BALL ONTO THE	KUTARAGI, Ken	(31) 201815937631
GROUND OF A PLAYING FIELD	(31) 2005172920	(32) 27.03.2018
(73) Roel Cardama, Diego	2005171592	(33) United States of America
(72) Roel Cardama, Diego	(32) 16.05.2005	<hr/>
(31) 201931093	15.05.2005	(51) A63G 31/16
(32) 10.12.2019	(33) Japan	A63G 7/00
(33) Spain	Japan	(11) EP3856380
<hr/>	<hr/>	(21) EP19783896.4
(51) A63B 71/02	(51) A63F 13/86	(47) 13.09.2023
A63B 21/008	A63F 13/79	(87) US2019052950
A63B 26/00	A63F 13/798	02.04.2020
A63B 69/16	A63F 13/812	(22) 25.09.2019
A63B 22/06	G06F 13/00	(54) MODULAR AUGMENTED AND
(11) EP4122560	H04N 21/239	VIRTUAL REALITY RIDE ATTRACTION
(21) EP21717950.6	H04N 21/258	(73) Universal City Studios LLC
(47) 13.09.2023	A63F 13/795	(72) GOERGEN, Patrick John
(87) ES2021070157	A63F 13/87	HOLSTINE, Danielle Marie
23.09.2021	A63F 13/53	TRUJILLO, Tomas Manuel
(22) 04.03.2021	(11) EP3718614	(31) 201916580543
(54) CYCLING TRAINING DEVICE	(21) EP18884614.1	201862736433 P
(73) Oreka Training, S.L.	(47) 13.09.2023	(32) 24.09.2019
(72) ZAPIRAIN ELOSEGUI, Garikoitz	(87) JP2018043194	25.09.2018
ARGOTE VIVAR, José Ignacio	06.06.2019	(33) United States of America
(31) 202030224	(22) 22.11.2018	United States of America
(32) 18.03.2020	(54) INFORMATION PROCESSING DEVICE	<hr/>
(33) Spain	AND GAME IMAGE DISTRIBUTION	(51) A63G 31/16
<hr/>	METHOD	G06T 19/00
(51) A63F 13/24	(73) Sony Interactive Entertainment Inc.	A63G 21/18
A63F 13/90	(72) FUJIHARA, Masahiro	A63G 31/00
G06F 3/02	MATSUNAGA, Kiyobumi	A63G 3/06
(11) EP3888765	(31) 2017232107	A63G 3/00
(21) EP21165210.2	(32) 01.12.2017	G02B 27/01
(47) 13.09.2023	(33) Japan	G06N 3/08
(22) 26.03.2021	<hr/>	H04L 67/131
(54) INPUT DEVICE AND COVER	(51) A63F 13/87	H04W 4/02
(73) Sony Interactive Entertainment Inc.	A63F 13/35	H04W 4/30
(72) KOBAYASHI, Ikuo	A63F 13/533	B63C 11/12
MORITA, Masaho	A63F 13/67	(11) EP3687648
SANNOMIYA, Ryu	G06F 40/117	(21) EP18857531.0
(31) 2020065102	G06F 40/30	(47) 13.09.2023
(32) 31.03.2020	(11) EP3915658	(87) US2018000374
(33) Japan	(21) EP21175328.0	28.03.2019
<hr/>	(47) 13.09.2023	(22) 24.09.2018
(51) A63F 13/355	(22) 21.05.2021	(54) COORDINATION OF WATER-RELATED
A63F 13/35	(54) GENERATION OF TEXT TAGS	EXPERIENCES WITH VIRTUAL
A63F 13/352	FROM GAME COMMUNICATION	REALITY CONTENT
(11) EP3606628	TRANSCRIPTS	(73) Ballast Technologies, Inc.
(21) EP18716456.1	(73) Roblox Corporation	(72) GREENWOOD, Stephen
(47) 13.09.2023	(72) Holmdahl, Eric	SHAH, Ananda
(87) US2018023410	Sonntag, Nikolaus	ROUFAS, Alkis
11.10.2018	Manoharan, Aswath	EVANS, Allan
(22) 20.03.2018	(31) 202016884822	(31) 201762606492 P
(54) SYSTEMS AND METHODS FOR USING	(32) 27.05.2020	(32) 25.09.2017
A DISTRIBUTED GAME ENGINE	(33) United States of America	(33) United States of America
(73) Sony Interactive Entertainment America	<hr/>	<hr/>
LLC	(51) A63G 7/00	(51) B01D 3/00
(72) COLENBRANDER, Roelof, Roderick	A61L 2/10	B01D 15/22
(31) 201715477341	(11) EP3773956	G01N 30/60
(32) 03.04.2017	(21) EP18815434.8	G01N 30/52
(33) United States of America	(47) 13.09.2023	F28F 9/02
<hr/>	(87) US2018061332	(11) EP4021603
(51) A63F 13/79	03.10.2019	(21) EP20788801.7
A63F 13/73	(22) 15.11.2018	(47) 13.09.2023
A63F 13/235		(87) EP2020078521
(11) EP3838357		14.05.2021
(21) EP21156700.3		

(22) 10.10.2020	(54) METHOD OF CONTROLLED	(54) PARTICLE ISOLATION/ENRICHMENT
(54) GRID-LIKE FRACTAL DISTRIBUTOR	COMPETITIVE EXCHANGE	USING CONTINUOUS CLOSED-LOOP
OR COLLECTOR ELEMENT	(73) Anteo Technologies Pty Ltd.	MICRO-FLUIDICS
(73) Hirschberg Engineering AG	(72) HUANG, Chang-Yi	(73) Massachusetts Institute of Technology
(72) HIRSCHBERG, Sebastian	MAEJI, Nobuyoshi Joe	(72) RYU, Hyunryul
(31) 19207307	(31) 2015904803	CHOI, Kyungyong
(32) 05.11.2019	2015904802	HAN, Jongyoon
(33) European Patent Office (EPO)	(32) 20.11.2015	(31) 201662405335 P
(51) B01D 15/22	20.11.2015	(32) 07.10.2016
B01D 15/38	(33) Australia	(33) United States of America
B01J 20/28	Australia	(51) B01D 21/26
B01D 69/02	(51) B01D 17/02	B04C 5/103
B01D 69/14	B01D 37/02	B04C 5/14
B01J 20/10	C10M 175/00	C12M 1/00
B01J 20/26	(11) EP3921052	C12M 1/26
B01J 20/06	(21) EP20706852.9	(11) EP3946673
B01J 20/286	(47) 13.09.2023	(21) EP20714566.5
(11) EP3325123	(87) SE2020050095	(47) 13.09.2023
(21) EP16721543.3	13.08.2020	(87) EP2020058313
(47) 13.09.2023	(22) 03.02.2020	01.10.2020
(87) US2016026863	(54) PURIFICATION OF OIL	(22) 25.03.2020
26.01.2017	(73) SKF Recondoil AB	(54) A BIOREACTOR SYSTEM
(22) 11.04.2016	(72) PERSSON, Thomas	(73) Cytiva Sweden AB
(54) AFFINITY CHROMATOGRAPHY	ÖSTBERG, Tomas	(72) CASTAN, Andreas
DEVICES	SUNDSTRÖM, Fred	MEDRONHO, Ricardo, A
(73) W.L. Gore & Associates, Inc.	(31) 1950146	CASTILHO, Leda
(72) MCMANAWAY, Michael C.	(32) 08.02.2019	BETTINARDI, Iona, Walter
(31) 201615094428	(33) Sweden	(31) 201904083
201562194620 P	(51) B01D 17/028	(32) 25.03.2019
(32) 08.04.2016	B01J 38/00	(33) United Kingdom
20.07.2015	C07C 7/00	(51) B01D 27/14
(33) United States of America	B01D 17/02	B01D 29/01
United States of America	B01D 17/04	B01D 29/05
(51) B01D 15/32	B01J 31/02	B01D 29/50
B01D 15/12	B01J 31/40	B01D 29/56
C07H 1/06	C10G 53/04	B01D 39/16
C12P 19/12	(11) EP3380209	(11) EP3160612
C12P 19/26	(21) EP16869058.4	(21) EP15812262.2
B01J 20/285	(47) 13.09.2023	(47) 13.09.2023
B01D 61/02	(87) US2016061040	(87) US2015037055
B01D 61/14	01.06.2017	30.12.2015
B01J 20/26	(22) 09.11.2016	(22) 23.06.2015
C12P 19/04	(54) VERTICAL SEPARATION VESSEL FOR	(54) FLUID FILTRATION DEVICE WITH
(11) EP3897902	IONIC LIQUID CATALYZED EFFLUENT	ENHANCED DIRT HOLDING CAPACITY
(21) EP19897586.4	(73) UOP LLC	(73) EMD Millipore Corporation
(47) 13.09.2023	(72) LEETON, Eric	(72) GIGLIA, Sal
(87) IB2019061093	(31) 201562259382 P	NHIEM, David
25.06.2020	(32) 24.11.2015	ASHBY LEON, Sherry
(22) 19.12.2019	(33) United States of America	TKACIK, Gabriel
(54) SEPARATION OF	(51) B01D 21/26	(31) 201462017463 P
OLIGOSACCHARIDES	B01L 3/00	(32) 26.06.2014
(73) Glycom A/S	C12N 1/02	(33) United States of America
(72) KHANZHIN, Nikolay	C12N 5/078	(51) B01D 29/11
JONDELIUS HEDEROS, Markus	B03B 5/28	B01D 29/52
CHASSAGNE, Pierre	G01N 15/06	B01D 29/54
(31) PA201801036	G01N 33/49	B01D 35/30
(32) 19.12.2018	G01N 1/40	(11) EP3970827
(33) Denmark	G01N 15/02	(21) EP21196867.2
(51) B01D 15/38	G01N 15/10	(47) 13.09.2023
A61K 38/16	G01N 15/00	(22) 15.09.2021
A61K 31/496	(11) EP3523003	(54) FILTER WITH INTERCONNECTED
G01N 30/06	(21) EP17859250.7	HOLLOW ELEMENTS AND METHOD
(11) EP3377887	(47) 13.09.2023	OF USE
(21) EP16865322.8	(87) US2017055515	(73) Pall Corporation
(47) 13.09.2023	12.04.2018	(72) BAIR, James A.
(87) AU2016051132	(22) 06.10.2017	STURDEVANT, Eddie J.
26.05.2017		(31) 202017025163
(22) 21.11.2016		(32) 18.09.2020

(33) United States of America	(22) 11.03.2019	(47) 13.09.2023
(51) B01D 29/68	(54) FILTER DEVICE FOR FILTRATION OF GASES LOADED WITH PARTICLES	(87) JP2020011409 29.10.2020
B01D 29/70	(73) Hydac Fluidcarecenter GmbH	(22) 16.03.2020
B01D 39/08	(72) KLEEMANN, Daniel	(54) EXHAUST GAS PURIFICATION FILTER
B01D 29/41	FREIDINGER, Martin	(73) Denso Corporation
(11) EP3713655	WENDELS, Jörg Michael	(72) KAYAMA Hiroaki
(21) EP18881287.9	HAINKA, Christophe	(31) 2019086489
(47) 13.09.2023	SCHNEIDER, André Michael	(32) 26.04.2019
(87) US2018056868	(31) 102018002314	(33) Japan
31.05.2019	(32) 19.03.2018	(51) B01D 53/04
(22) 22.10.2018	(33) Germany	B01D 53/26
(54) BACKWASH SHOE METHOD AND APPARATUS THAT INCREASES EFFECTIVE SURFACE AREA OF CLOTH FILTER MEDIA	(51) B01D 45/08	(11) EP4084892
(73) Aqua-Aerobic Systems Inc.	B01D 46/00	(21) EP20841781.6
(72) ULRICH, Grabbe	B01D 46/24	(47) 13.09.2023
(31) 201715819061	B01D 50/00	(87) IB2020062471 08.07.2021
(32) 21.11.2017	(11) EP3711840	(22) 28.12.2020
(33) United States of America	(21) EP20164382.2	(54) METHOD FOR DRYING COMPRESSED GAS
(51) B01D 35/06	(47) 13.09.2023	(73) ATLAS COPCO AIRPOWER, naamloze vennootschap
B01D 29/11	(22) 20.03.2020	(72) HERMANS, Hans Maria Karel
B01D 29/90	(54) DUST EXTRACTION INSTALLATION	(31) 202005000
(11) EP3801816	(73) Novus air GmbH	(32) 02.01.2020
(21) EP19736807.9	(72) Kaiser, Tommy	(33) Belgium
(47) 13.09.2023	Honscha, Bork	(51) B01D 53/18
(87) IB2019054620	(31) 102019107169	B01D 47/12
12.12.2019	(32) 20.03.2019	B01D 47/14
(22) 04.06.2019	(33) Germany	C01B 3/52
(54) FILTRATION DEVICE	(51) B01D 46/00	(11) EP3485961
(73) HCE S.r.l.	B01D 46/44	(21) EP17400063.8
(72) INGLESE, Enrico	B01D 46/46	(47) 13.09.2023
(31) 201800009641	(11) EP3858459	(22) 16.11.2017
201800006003	(21) EP21153941.6	(54) WASH COLUMN FOR PURIFYING GAS STREAMS
(32) 19.10.2018	(47) 13.09.2023	(73) L'AIR LIQUIDE, SOCIÉTÉ ANONYME POUR L'ÉTUDE ET L'EXPLOITATION DES PROCÉDÉS GEORGES CLAUDE
04.06.2018	(22) 28.01.2021	(72) Corbet, Sharon
(33) Italy	(54) FILTRATION METHOD AND APPARATUS	Frey, Christian
Italy	(73) Piovan S.P.A.	Leichner, Hincal
(51) B01D 35/147	(72) BELLIO, Enrico	Schmidt, Sophia
B01D 29/23	(31) 202000002041	(51) B01D 53/18
B01D 29/54	(32) 03.02.2020	B01D 53/50
B01D 29/64	(33) Italy	B01D 53/79
B01D 29/68	(51) B01D 46/00	B01D 47/10
B01D 29/58	B01D 46/44	B01D 47/14
(11) EP3589382	B01D 46/52	B01D 53/78
(21) EP18712800.4	(11) EP3865199	C10G 70/00
(47) 13.09.2023	(21) EP20156997.7	(11) EP3474969
(87) EP2018054770	(47) 13.09.2023	(21) EP17733216.0
07.09.2018	(22) 12.02.2020	(47) 13.09.2023
(22) 27.02.2018	(54) FILTER MODULE WITH SENSOR FOR DETERMINING THE LOADING CONDITION AND METHOD FOR DETERMINING THE LOADING CONDITION	(87) US2017034612 28.12.2017
(54) FILTER DEVICE	(73) Carl Freudenberg KG	(22) 26.05.2017
(73) Hydac Process Technology GmbH	(72) Tapper, Renate	(54) METHODS AND SYSTEMS FOR MARINE SULFUR DIOXIDE EMISSION REDUCTION
(72) LINGEN, Hans-Jürgen	Kluck, Stefan, Dr.	(73) ExxonMobil Technology and Engineering Company
KLEIN, Stefan	(51) B01D 46/24	(72) CODOLUTO, Stephen, C.
KLEIN, Raphael	C04B 35/63	SUBRAMANIA, Venkatesh
HRIN, Sebastian	C04B 35/64	(31) 201662353659 P
(31) 102017001968	C04B 35/195	(32) 23.06.2016
(32) 01.03.2017	B01D 53/94	(33) United States of America
(33) Germany	B01J 35/04	(51) B01D 53/30
(51) B01D 36/02	B01J 37/02	B01D 53/34
B01D 46/00	F01N 3/022	
B22F 3/105	F01N 3/24	
B29C 64/00	F01N 3/035	
(11) EP3746208	(11) EP3960289	
(21) EP19711534.8	(21) EP20794914.0	
(47) 13.09.2023		
(87) EP2019055951		
26.09.2019		

B01D 53/64	(22) 08.05.2018	(31) UB20153343
B01D 53/83	(54) FLUOROPOLYMER HYBRID	(32) 02.09.2015
F23J 15/00	COMPOSITE	(33) Italy
F23J 15/02	(73) Solvay SA	(51) B01J 12/00
(11) EP4008425	(72) FRACHE, Alberto	B01J 8/02
(21) EP21212233.7	ABUSLEME, Julio A.	B01J 19/24
(47) 13.09.2023	CISTERNINO, Alberto	B01J 4/00
(22) 03.12.2021	HAMON, Christine	B01J 23/42
(54) METHOD FOR REMOVING MERCURY	BESANA, Giambattista	B01J 23/46
FROM FUMES	BRUSSEAU, Ségolène	C01C 3/02
(73) LAB	LAVASELLI, Matteo	(11) EP3021958
(72) SIRET, Bernard	CAMINO, Giovanni	(21) EP14741309.0
VUONG, François	(31) 17305539	(47) 13.09.2023
BOURHIS, Benoît	(32) 12.05.2017	(87) EP2014065551
(31) 2012708	(33) European Patent Office (EPO)	22.01.2015
(32) 04.12.2020	(51) B01F 23/232	(22) 18.07.2014
(33) France	B01F 23/237	(54) REACTOR FOR PREPARING
(51) B01D 53/50	B01F 23/2373	HYDROGEN CYANIDE BY THE
B01D 53/68	B01F 23/20	ANDRUSSOW PROCESS, EQUIPMENT
(11) EP3415223	B01F 25/312	COMPRISING SAID REACTOR
(21) EP18184800.3	B01F 25/452	AND PROCESS USING SUCH AN
(47) 13.09.2023	B01F 25/51	EQUIPMENT
(22) 20.09.2012	B01F 25/60	(73) Trinseo Europe GmbH
(54) WATER- SAVING LIQUID-GAS	B01F 33/82	(72) BERNARDIN, Yves
CONTACT PROCESSES BASED ON	(11) EP3991832	MARCARIAN, Xavier
EQUILIBRIUM MOISTURE OPERATION	(21) EP20461574.4	BILLON, Romain
(73) Energy & Environmental Research	(47) 13.09.2023	(31) 1357133
Center Foundation	(22) 27.10.2020	(32) 19.07.2013
(72) MARTIN, Christopher L.	(54) A SYSTEM AND A METHOD FOR	(33) France
HUANG, Ye	PRODUCING A LIQUID WITH GAS	(51) B01J 13/00
(31) 201113241624	BUBBLES	(11) EP3700664
(32) 23.09.2011	(73) MBA S.A.	(21) EP18799571.7
(33) United States of America	(72) MORDEC, Wojciech	(47) 13.09.2023
(51) B01D 53/86	FRANCISCI, Jean Philippe	(87) FI2018050782
B01D 53/94	WERYNSKA, Aneta Maria	02.05.2019
F01N 3/023	(51) B01F 27/052	(22) 26.10.2018
F01N 3/08	B01F 27/053	(54) METHODS OF PREPARING AQUEOUS
F01N 3/10	B01F 27/1152	LIGNIN DISPERSIONS
F01N 3/22	B01F 29/86	(73) Aalto University Foundation SR
F01N 3/30	B01J 2/00	(72) LINTINEN, Kalle
F01N 9/00	B01J 2/10	BANGALORE ASHOK, Rahul Prasad
F01N 13/00	(11) EP4065263	LESKINEN, Timo
(11) EP3600617	(21) EP20816429.3	XIAO, Yao
(21) EP18774289.5	(47) 13.09.2023	ÖSTERBERG, Monika
(47) 13.09.2023	(87) EP2020083521	KOSTIAINEN, Mauri
(87) US2018025159	03.06.2021	OINAS, Pekka
04.10.2018	(22) 26.11.2020	RAUTKARI, Lauri
(22) 29.03.2018	(54) MIXING TOOL FOR DRY MIXING AND	YAMAMOTO, Akio
(54) CATALYST PROTECTION SYSTEM	COATING PROCESSES	HAUTAMÄKI, Saara
FROM OXYGEN DEPRIVED EXHAUST	(73) Maschinenfabrik Gustav Eirich GmbH &	MERI, Niko
(73) Johnson Matthey Public Limited	Co KG	(31) 20175947
Company	(72) GERL, Stefan	(32) 26.10.2017
(72) SCHMALE, Mark	SEILER, Andreas	(33) Finland
(31) 201762479425 P	SCHMITT, Clemens	(51) B01J 19/24
(32) 31.03.2017	(31) 102019132264	B01J 19/00
(33) United States of America	(32) 28.11.2019	C07C 201/08
(51) B01D 67/00	(33) Germany	(11) EP3826763
B01D 69/14	(51) B01F 35/75	(21) EP18811660.2
B01D 71/30	B65G 65/23	(47) 13.09.2023
C08J 5/22	B65D 88/56	(87) IB2018059008
C08L 27/16	(11) EP3138625	30.01.2020
H01M 10/0565	(21) EP16179177.7	(22) 15.11.2018
H01M 10/0525	(47) 13.09.2023	(54) NITRATION REACTOR AND METHOD
(11) EP3622011	(22) 13.07.2016	(73) Noram Engineering and Constructors
(21) EP18722553.7	(54) A SYSTEM FOR OVERTURNING	Ltd.
(47) 13.09.2023	TANKS OF KNEADING MACHINES	(72) MEILI, Stefan F.
(87) EP2018061937	(73) SANCASSIANO S.p.A.	(31) 201862712621 P
15.11.2018	(72) DROCCO, Davide	201862702664 P

(32) 31.07.2018	B01J 35/02	(22) 22.08.2019
24.07.2018	C07D 295/03	(54) METHODS FOR MANUFACTURING A
(33) United States of America	C07F 15/00	MICROFLUIDIC ROTOR DEVICE
United States of America	B01J 27/188	(73) Zoetis Services LLC
(51) B01J 19/24	B01J 31/02	(72) SHARTLE, Robert Justice
C01B 3/24	B01J 31/16	TRIGUB, Gregory
B01J 19/00	B01J 31/18	(31) 201862722449 P
B01J 19/28	B01J 35/00	(32) 24.08.2018
H01M 8/0612	B01J 37/02	(33) United States of America
H01M 8/1233	(11) EP3819029	(51) B01L 3/00
B01J 4/00	(21) EP19829883.8	G01N 15/00
B01J 12/00	(47) 13.09.2023	C12M 3/00
H01M 8/22	(87) JP2019026522	(11) EP4079404
(11) EP3894068	09.01.2020	(21) EP22165928.7
(21) EP19894403.5	(22) 03.07.2019	(47) 13.09.2023
(47) 13.09.2023	(54) POLYOXOMETALATE COMPOUND	(22) 31.03.2022
(87) CA2019051765	AND METHOD FOR PRODUCING	(54) BIOLOGICAL PARTICLE DETECTING
18.06.2020	SAME, SINTERED BODY OF	SYSTEM AND DETECTING METHOD
(22) 09.12.2019	POLYOXOMETALATE COMPOUND,	THEREOF
(54) METHOD AND REACTOR FOR	AND REACTION CATALYST	(73) LiqBio biomedical company limited
PRODUCING ONE OR MORE	(73) National University Corporation Shizuoka	(72) OH YANG, Chi-Kun
PRODUCTS	University	CHIU, Tzu-Keng
(73) Ekona Power Inc.	(72) KATO Chika	ZHU, Yu-Xian
(72) HINKEY, John Benjamin, Jr.	(31) 2018127351	YANG, Cheng-Fang
ELDER, Timothy John	(32) 04.07.2018	(31) 202110403998
KRATSCHMAR, Kenneth William	(33) Japan	(32) 15.04.2021
REID, Christopher Edwin John	(51) B01L 3/00	(33) China
(31) 201862777619 P	B01L 9/00	(51) B01L 3/08
(32) 10.12.2018	G01N 1/31	A61B 5/15
(33) United States of America	(11) EP2918343	G01N 33/49
(51) B01J 31/24	(21) EP15158134.5	A61B 5/157
C07C 2/34	(47) 13.09.2023	G01N 33/50
C07C 2/36	(22) 09.03.2015	A61M 1/34
C07C 11/107	(54) Disposable IHC sample holder with fluid	A61B 5/151
C07C 11/02	exchange, system and method for use.	B01L 3/00
(11) EP3907004	(73) EMD Millipore Corporation	A61M 1/36
(21) EP19910741.8	(72) Scott, Chris	(11) EP2986386
(47) 13.09.2023	Sydowski, Paul	(21) EP14722952.0
(87) CN2019114395	Doyle, John	(47) 13.09.2023
23.07.2020	Amara, Ryan A.	(87) US2014033924
(22) 30.10.2019	Kellard, Libby	23.10.2014
(54) HALOGEN-CONTAINING COMPOUND	Gutierrez, Sara D.	(22) 14.04.2014
AND USE THEREOF, CATALYST	Emerick, Marc	(54) BIOLOGICAL FLUID SEPARATION
COMPOSITION, AND ETHYLENE	(31) 201462039082 P	DEVICE AND BIOLOGICAL FLUID
OLIGOMERIZATION, TRIMERIZATION	201461951135 P	SEPARATION AND TESTING SYSTEM
AND TETRAMERIZATION METHODS	(32) 19.08.2014	(73) Becton, Dickinson and Company
(73) China Petroleum & Chemical Corporation	11.03.2014	(72) MARCHIARULLO, Daniel, J.
Beijing Research Institute of Chemical	(33) United States of America	WILKINSON, Bradley, M.
Industry, China Petroleum & Chemical	United States of America	(31) 201361811918 P
Corporation	(51) B01L 3/00	(32) 15.04.2013
(72) WU, Hongfei	B29C 65/00	(33) United States of America
ZHENG, Mingfang	B29C 65/14	(51) B02C 18/10
HU, Songshuang	B29C 65/16	B02C 18/30
LI, Tonglin	B29C 69/00	B02C 18/36
LIU, Jun	B29D 22/00	C12M 1/33
XU, Ke	G01N 21/07	(11) EP3772378
WANG, Xiaoqing	G01N 21/25	(21) EP20000223.6
PAN, Feng	G01N 35/00	(47) 13.09.2023
(31) 201910036068	B29C 65/08	(22) 24.06.2020
201910036065	B29C 65/48	(54) DISRUPTING AND DISSOCIATING
201910037040	B29C 65/50	DEVICE OF SOLID BIOLOGIC
(32) 15.01.2019	B29C 45/16	MATERIALS FOR A REGENERATIVE
15.01.2019	B29L 31/00	MEDICAL AND SURGICAL USE
15.01.2019	(11) EP3840884	(73) C.T.S.V. S.R.L.
(33) China	(21) EP19773211.8	Roggero, Armando
China	(47) 13.09.2023	(72) Roggero, Armando
China	(87) US2019047633	(31) 201900014106
(51) B01J 31/34	27.02.2020	(32) 06.08.2019



(33) Italy	EMANUELE, Mario	A61K 8/898
(51) B02C 18/14	PIEK, Alexander	A61Q 1/02
B02C 18/22	MACKEL, Jürgen	A61Q 17/04
B02C 18/18	(31) 102017106801	A61Q 19/00
B23D 25/14	(32) 29.03.2017	A61M 35/00
(11) EP3900834	(33) Germany	A61Q 19/08
(21) EP20171334.4	(51) B05B 1/04	(11) EP3613404
(47) 13.09.2023	B05B 1/34	(21) EP18787353.4
(22) 24.04.2020	B05B 15/652	(47) 13.09.2023
(54) CHOPPING MACHINE	B05B 1/32	(87) JP2018016216
(73) Yang Bey Industrial Co., Ltd.	B65D 83/30	25.10.2018
(72) YU, Teng-Chi	(11) EP3749461	(22) 19.04.2018
(51) B03B 7/00	(21) EP19707214.3	(54) METHOD FOR PRODUCING FILM
B03B 1/04	(47) 13.09.2023	(73) Kao Corporation
B03B 5/28	(87) US2019017180	(72) TOJO, Takehiko
B03C 1/30	15.08.2019	FUKUDA, Ikuo
B03D 1/02	(22) 08.02.2019	(31) 2017083249
C22B 1/00	(54) WIDE MOUTH SPRAY ACTUATOR	2017083248
C22B 3/22	(73) RUST-OLEUM CORPORATION	2017083247
C22B 15/00	(72) MORRISON, Adam P.	(32) 19.04.2017
(11) EP3589399	MCNULTY, Robert	19.04.2017
(21) EP18760977.1	(31) 201862632524 P	19.04.2017
(47) 13.09.2023	201862628437 P	(33) Japan
(87) US2018020423	(32) 20.02.2018	Japan
07.09.2018	09.02.2018	Japan
(22) 01.03.2018	(33) United States of America	(51) B05B 9/03
(54) MINERAL PROCESSING PLANT	United States of America	B05B 15/00
(73) Cidra Corporate Services LLC	(51) B05B 1/12	B05B 12/02
(72) ROTHMAN, Paul J.	B05B 7/16	(11) EP3630370
(31) 201762465231 P	B05D 1/08	(21) EP17912051.4
(32) 01.03.2017	(11) EP3928872	(47) 13.09.2023
(33) United States of America	(21) EP21192174.7	(87) CN2017101783
(51) B03C 1/28	(47) 13.09.2023	06.12.2018
B01D 21/24	(22) 22.02.2018	(22) 14.09.2017
B03C 1/033	(54) SPRAY NOZZLE, COATING FORMING	(54) SPRAY POT
F24D 19/00	DEVICE, AND METHOD FOR FORMING	(73) Shenzhen Wisdom Science And
F24H 9/00	COATING	Technology Co., Ltd
B03C 1/30	(73) Tatsuta Electric Wire & Cable Co., Ltd.	(72) SUN, Hui
F16L 55/24	(72) HIRANO, Masaki	HUSSEY, Ian
C02F 1/48	(31) 2017095729	(31) 201720607912 U
(11) EP4005678	(32) 12.05.2017	(32) 27.05.2017
(21) EP21214147.7	(33) Japan	(33) China
(47) 13.09.2023	(51) B05B 5/043	(51) B05B 11/10
(22) 28.06.2016	B05B 5/16	(11) EP4031288
(54) MEASURING MAGNETITE BUILDUP IN	B05B 1/14	(21) EP20785811.9
A MAGNETIC FILTER	B05B 15/65	(47) 13.09.2023
(73) Adey Holdings (2008) Limited	(11) EP3897999	(87) FR2020051596
(72) Downie, Simon	(21) EP19831700.0	25.03.2021
Taylor, Matthew	(47) 13.09.2023	(22) 16.09.2020
(31) 201606795	(87) EP2019086282	(54) HIGH-PRESSURE PRECOMPRESSION
(32) 19.04.2016	25.06.2020	PUMP
(33) United Kingdom	(22) 19.12.2019	(73) APTAR France SAS
(51) B04B 1/10	(54) ATOMISER SYSTEM HAVING A	(72) PETIT, Ludovic
B04B 7/04	SILICONE NOZZLE ARRAY	(31) 1910258
B04B 11/02	(73) J. Wagner GmbH	(32) 17.09.2019
B04B 11/04	(72) MANGOLD, Sebastian	(33) France
(11) EP3600679	FIESEL, Manuel	(51) B05B 12/00
(21) EP18710435.1	BARTHELMES, Jan	B05B 11/00
(47) 13.09.2023	LUCK, Leon	B05B 11/10
(87) EP2018055726	FREISINGER, Björn	(11) EP3863771
04.10.2018	(31) 102018133440	(21) EP19770136.0
(22) 08.03.2018	(32) 21.12.2018	(47) 13.09.2023
(54) SELF-EMPTYING SEPARATOR FOR	(33) Germany	(87) EP2019075749
THE GENTLE DISCHARGE OF SHEAR-	(51) B05B 5/16	16.04.2020
SENSITIVE PRODUCTS, AND METHOD	A61K 8/04	(22) 24.09.2019
FOR OPERATING SAME	A61K 8/34	(54) SET OF A PUMP DISPENSER AND AN
(73) GEA Mechanical Equipment GmbH	A61K 8/81	EVALUATION UNIT
(72) HUNDERTMARK, Tim	A61K 8/88	(73) Aptar Radolfzell GmbH

(72) MARSH, William Goeffrey Arthur	B08B 5/02	G01N 27/20
KÖRNER, Joachim	B24B 29/00	G01N 27/24
JONES, Matthew Meredith	B05D 3/06	G01N 27/82
GRAHAM, Dominic Alexander	B08B 3/02	G01N 27/87
(31) 18199176	B24C 1/04	G01N 27/90
(32) 08.10.2018	B24C 3/08	(11) EP3402612
(33) European Patent Office (EPO)	B24C 9/00	(21) EP17738911.1
(51) B05B 17/06	B08B 1/00	(47) 13.09.2023
A61M 15/00	B08B 1/02	(87) US2017013152
B05B 17/00	B08B 7/00	20.07.2017
(11) EP3548127	B08B 15/04	(22) 12.01.2017
(21) EP17838032.5	(11) EP3733308	(54) EDDY CURRENT SYSTEM FOR
(47) 13.09.2023	(21) EP19208741.9	WORKPIECE INSPECTION
(87) DE2017101098	(47) 13.09.2023	(73) Mectron Engineering Company, Inc.
05.07.2018	(22) 12.11.2019	(72) HANNA, Mark, L.
(22) 20.12.2017	(54) METHOD AND DEVICE FOR SURFACE	DURHAM, Jack
(54) ATOMIZING UNIT WITH DIRECTLY	FINISHING	(31) 201662278503 P
CONNECTABLE AMPOULE	(73) Hymmen GmbH Maschinen- und	(32) 14.01.2016
(73) Kern, Stefan	Anlagenbau	(33) United States of America
(72) Kern, Stefan	(31) 102019206431	(51) B08B 3/02
(31) 102017100012	(32) 03.05.2019	B24B 9/06
(32) 02.01.2017	(33) Germany	B24B 21/00
(33) Germany	(51) B07B 1/00	H01L 21/02
(51) B05B 17/06	B07B 13/18	B24B 37/02
B65D 83/68	B02C 21/02	B24B 55/02
B05B 12/14	B02C 25/00	B24B 55/08
B05B 7/24	(11) EP3804864	H01L 21/67
(11) EP3921088	(21) EP20200265.5	B08B 1/00
(21) EP20704015.5	(47) 13.09.2023	B24B 21/18
(47) 13.09.2023	(22) 06.10.2020	(11) EP3928882
(87) EP2020053152	(54) ROCK PROCESSING MACHINE WITH	(21) EP21179619.8
13.08.2020	IMPROVED CONTROL PANEL	(47) 13.09.2023
(22) 07.02.2020	(73) Kleemann GmbH	(22) 15.06.2021
(54) FLUID DISPENSER FOR DISPENSING	(72) Hommel, Timo	(54) SUBSTRATE PROCESSING
A COSMETIC PRODUCT	Klöss, Tobias	APPARATUS AND SUBSTRATE
(73) Topal Lecchini, Hülya	Köpf, Reiner	PROCESSING METHOD
Lecchini, Stefano	(31) 102019126978	(73) EBARA CORPORATION
(72) Topal Lecchini, Hülya	(32) 08.10.2019	(72) YAMANOBE, Hokuto
Lecchini, Stefano	(33) Germany	(31) 2020110491
(31) 19156201	(51) B07C 3/10	(32) 26.06.2020
(32) 08.02.2019	G06Q 50/28	(33) Japan
(33) European Patent Office (EPO)	G06Q 10/0633	(51) B08B 9/08
(51) B05C 5/02	(11) EP3546074	B08B 9/093
D06B 3/04	(21) EP19172586.0	C07D 251/60
A61F 13/15	(47) 13.09.2023	(11) EP3909694
D06B 15/09	(22) 04.10.2012	(21) EP21173729.1
D06B 11/00	(54) APPARATUS AND METHOD TO	(47) 13.09.2023
(11) EP3138634	DECENTRALIZE PROCESSING OF AN	(22) 13.05.2021
(21) EP16188162.8	OBJECT	(54) METHOD FOR WASHING A
(47) 13.09.2023	(73) Matthews International Corporation	SEPARATOR FOR PROCESSING
(22) 10.04.2012	(72) ROSS, David Justin	MOLTEN UREA AND RELATIVE
(54) SYSTEM, NOZZLE, AND METHOD FOR	TURNER, Bryan J.	SEPARATION EQUIPMENT
COATING ELASTIC STRANDS	TRAINA, Christopher	(73) EUROTECNICA MELAMINE AG
(73) Nordson Corporation	HARBACHUK, George	(72) SANTUCCI, Roberto
(72) Saine, Joel E.	SAAVEDRA, Diego	DE AMICIS, Alberto
Ganzer, Charles P.	TEUDT, Richard	DI RUOCCO, Giuseppe
(31) 201161474129 P	SAUR, Kevin	(31) 202000010990
(32) 11.04.2011	(31) 201213628654	(32) 14.05.2020
(33) United States of America	201161543264 P	(33) Italy
(51) B05D 3/12	201161543243 P	(51) B08B 9/093
B05D 3/00	(32) 27.09.2012	B08B 9/08
B05D 3/04	04.10.2011	B08B 9/34
B05D 5/02	04.10.2011	B08B 5/02
A46B 13/00	(33) United States of America	B08B 9/30
A46B 5/06	United States of America	B08B 9/28
B44C 1/22	United States of America	B08B 9/42
B44D 5/00	(51) B07C 5/34	(11) EP3782743
B24B 7/18	G01B 21/00	(21) EP19865252.1

(47) 13.09.2023	(22) 11.07.2022	(87) IT2019050279
(87) KR2019012633 02.04.2020	(54) USED PAPER DIAPER PROCESSING APPARATUS	02.07.2020
(22) 27.09.2019	(73) Panasonic Intellectual Property Management Co., Ltd.	(22) 27.12.2019
(54) APPARATUS FOR REMOVING FOREIGN SUBSTANCE IN CONTAINER	(72) MATSUDA, Genichiro	(54) HEAT EXCHANGER AND ASSOCIATED METHOD OF MANUFACTURE
(73) LG Energy Solution, Ltd.	KATAOKA, Hidenao	(73) A. Raymond et Cie
(72) KIM, Jun Soo	HINO, Naofumi	(72) COLUGNATI, Giorgio
SONG, Young Soo	(31) 2021118017	GIAMEI, Pietro
PARK, Chun Hong	(32) 16.07.2021	(31) 201800021274
IM, Ye Hoon	(33) Japan	(32) 27.12.2018
HWANG, Sung Tae	(51) B09C 1/02	(33) Italy
(31) 20180114898	(11) EP4058218	(51) B21D 39/04
(32) 27.09.2018	(21) EP20816877.3	F16C 23/00
(33) Korea (Republic)	(47) 13.09.2023	(11) EP3639943
(51) B09B 3/00	(87) EP2020081980	(21) EP18465605.6
(11) EP3140054	20.05.2021	(47) 13.09.2023
(21) EP15723811.4	(22) 12.11.2020	(22) 15.10.2018
(47) 13.09.2023	(54) TREATMENT OF HYDROCARBON- CONTAMINATED MATERIALS	(54) FIXING METHODS AND STRUCTURE MADE THEREWITH
(87) US2015029835	(73) Envorem Limited	(73) Vitesco Technologies GmbH
12.11.2015	(72) BATT-RAWDEN, Mark	(72) Nes, George
(22) 08.05.2015	LEVEY, Michael	(51) B21D 47/01
(54) METHOD FOR RESIN, SOLIDS, AND SLUDGE SOLIDIFICATION, STABILIZATION, AND REDUCTION OF DISPOSAL VOLUME	(31) 201916428	B21D 53/88
(73) Avantech, LLC.	(32) 12.11.2019	B21D 35/00
(72) BRUNSELL, Dennis A.	(33) United Kingdom	B62D 21/15
HENNING, William M.	(51) B21C 23/14	B21D 22/02
BEETS, Larry E.	B21D 53/88	B21D 22/20
(31) 201514706309	B21C 35/02	C21D 1/32
201461990513 P	B60R 19/34	C21D 1/34
(32) 07.05.2015	(11) EP3195947	C21D 8/00
08.05.2014	(21) EP17150394.9	C21D 9/00
(33) United States of America	(47) 13.09.2023	C21D 1/673
United States of America	(22) 05.01.2017	(11) EP4054777
(51) B09B 3/00	(54) METHOD FOR MANUFACTURING A MOTOR VEHICLE PART MADE FROM AN EXTRUDED LIGHT METAL PROFILE	(21) EP20800199.0
A61L 2/18	(73) Benteler Automobiltechnik GmbH	(47) 13.09.2023
A61L 11/00	(72) Clausen, Edwin List	(87) EP2020081322
B09B 5/00	Hitz, Andreas	14.05.2021
B29B 17/02	Kávik, Tobias Svantesson	(22) 06.11.2020
B29B 17/04	Bastani, Amin Farjad	(54) A FORMING SHEET METAL PART FOR A VEHICLE FRAME AND CORRESPONDING PRODUCTION METHOD
C08J 11/10	(31) 102016101159	(73) AUTOTECH ENGINEERING S.L.
C08J 11/16	(32) 22.01.2016	(72) GALCERAN OMS, Laura
D21B 1/32	(33) Germany	CORÓN MORENO, David
D21C 5/02	(51) B21D 5/14	MECA MARTÍNEZ, Martí
(11) EP3738686	(11) EP3581291	MARQUEZ DURAN, Sergi
(21) EP20178828.8	(21) EP19178287.9	(31) 19382980
(47) 13.09.2023	(47) 13.09.2023	(32) 08.11.2019
(22) 07.08.2015	(22) 04.06.2019	(33) European Patent Office (EPO)
(54) METHOD FOR RECOVERING PULP FIBER FROM USED SANITARY PRODUCT	(54) SHEET METAL BENDING MACHINE WITH VARIABLE ROLLER GEOMETRY	(51) B21F 15/08
(73) Unicharm Corporation	(73) Häusler Holding AG	B21F 27/10
(72) ICHIURA, Hideaki	(72) Maier, Mario	E04C 5/06
NAKAOKA, Hiroko	Schäuble, Benjamin	B23K 9/16
KONISHI, Takayoshi	Bittner, Florian	B23K 11/00
HIRAOKA, Toshia	(31) 102018113966	B23K 11/11
KAMEDA, Noritomo	(32) 12.06.2018	B23K 101/22
(31) 2014193074	(33) Germany	B21F 27/12
(32) 22.09.2014	(51) B21D 26/02	B23K 28/02
(33) Japan	B21D 53/04	B23K 9/00
(51) B09B 3/38	F28F 3/14	(11) EP3801966
B09B 101/67	F25B 39/02	(21) EP19726361.9
B29L 31/48	F28D 21/00	(47) 13.09.2023
(11) EP4119246	(11) EP3902639	(87) EP2019063030
(21) EP22184019.2	(21) EP19842630.6	05.12.2019
(47) 13.09.2023	(47) 13.09.2023	(22) 21.05.2019

(54) CAGE WELDING MACHINE FOR PRODUCING A REINFORCEMENT ELEMENT	B29C 64/35 B33Y 30/00 B41J 2/165	201562248821 P 201562248795 P 201562248787 P
(73) MBK MASCHINENBAU GmbH	B22F 10/14	201562248780 P
(72) LEHMANN, Jens	B22F 12/90	201562248989 P
(31) 102018112925	B33Y 40/00	201562248980 P
(32) 30.05.2018	(11) EP3972758	201562248969 P
(33) Germany	(21) EP20732039.1	201562248968 P
(51) B21J 13/10	(47) 13.09.2023	201562248966 P
B21J 13/12	(87) US2020034140	201562248799 P
(11) EP3898024	26.11.2020	201562248791 P
(21) EP19839283.9	(22) 22.05.2020	201562248783 P
(47) 13.09.2023	(54) CLEANING STATION AND METHOD OF CLEANING A PRINT HEAD	201562248776 P 201562248770 P
(87) IT2019050274	(73) General Electric Company	201562248765 P
25.06.2020	(72) ANDREWS, Timothy Francis	201562248758 P
(22) 20.12.2019	BONILLA, Carlos H.	(32) 30.10.2015
(54) APPARATUS TO MANIPULATE PRODUCTS TO BE FORGED	BROMBERG, Vadim	30.10.2015
(73) Vecchiato Officine Meccaniche S.R.L.	FULTON, Victor	30.10.2015
(72) VECCHIATO, Daniele	GRIFFITH, Tyler Andrew	30.10.2015
(31) 201800020245	JEONG, Younkoo	30.10.2015
(32) 20.12.2018	STERLE, John	30.10.2015
(33) Italy	(31) 201962852043 P	30.10.2015
(51) B22D 17/14	(32) 23.05.2019	30.10.2015
(11) EP3593924	(33) United States of America	30.10.2015
(21) EP19186006.3	(51) B22F 3/105	30.10.2015
(47) 13.09.2023	B23K 15/00	30.10.2015
(22) 20.10.2017	B23K 15/06	30.10.2015
(54) APPARATUS WITH A FILTER MODULE FOR MANUFACTURING PRESSURE CAST PARTS	B23K 26/00	30.10.2015
(73) MAGNA BDW technologies GmbH	B23K 26/03	30.10.2015
(72) WERNER, Christian	B23K 26/08	30.10.2015
DUGUM, Armin	B23K 26/082	30.10.2015
(31) 102016221675	B23K 26/12	30.10.2015
102016221674	B23K 26/342	30.10.2015
102016221678	B23K 26/70	30.10.2015
(32) 04.11.2016	B23K 37/04	30.10.2015
04.11.2016	B23K 101/00	30.10.2015
04.11.2016	B23K 103/00	30.10.2015
(33) Germany	B28B 1/00	30.10.2015
Germany	B29C 64/386	(33) United States of America
Germany	B29K 105/00	United States of America
Germany	B33Y 10/00	United States of America
(51) B22F 1/00	B33Y 40/00	United States of America
B22F 9/24	B33Y 50/00	United States of America
B22F 1/05	B33Y 50/02	United States of America
B22F 1/065	(11) EP3368242	United States of America
B22F 1/10	(21) EP16860926.1	United States of America
(11) EP3702064	(47) 13.09.2023	United States of America
(21) EP18888350.8	(87) US2016059422	United States of America
(47) 13.09.2023	04.05.2017	United States of America
(87) JP2018045808	(22) 28.10.2016	United States of America
20.06.2019	(54) DYNAMIC OPTICAL ASSEMBLY FOR LASER-BASED ADDITIVE MANUFACTURING	United States of America United States of America
(22) 13.12.2018	(73) Seurat Technologies, Inc.	United States of America
(54) SPHERICAL SILVER POWDER	(72) DEMOUTH, James, A.	United States of America
(73) DOWA ELECTRONICS MATERIALS CO., LTD.	TOOMRE, Erik	United States of America
(72) OSAKO, Masaya	LEARD, Francis, L.	United States of America
NAKANOYA, Taro	KAMSHAD, Kourosh	United States of America
(31) 2018232153	FEES, Heiner	United States of America
2017240187	BERDICHEVSKY, Eugene	United States of America
(32) 12.12.2018	(31) 201562248848 P	United States of America
15.12.2017	201562248847 P	(51) B22F 10/14
(33) Japan	201562248841 P	B22F 12/52
Japan	201562248839 P	B22F 12/63
(51) B22F 3/00	201562248835 P	B22F 12/67
B29C 64/165	201562248833 P	B29C 64/205
B29C 64/209	201562248829 P	B33Y 30/00

B33Y 40/00 G03G 15/22 (11) EP3288700 (21) EP16787136.7 (47) 13.09.2023 (87) US2016029757 03.11.2016 (22) 28.04.2016 (54) POWDER RECOATER FOR THREE-DIMENSIONAL PRINTER (73) The Exone Company (72) KLEIN, Andrew, P. BRUNERMER, Daniel, T. McCOY, Michael, J. DUGAN, Anthony, S. VOSS, Lawrence, J. LIZZI, Thomas (31) 201562162980 P 201562155155 P (32) 18.05.2015 30.04.2015 (33) United States of America United States of America	(54) IDENTIFICATION ELEMENT (73) Fraisa SA (72) Maushart, Josef Badertscher, Joel Rieder, Wolfgang Kammermeier, Dirk (51) B23B 51/02 B23B 51/06 (11) EP3781342 (21) EP19718353.6 (47) 13.09.2023 (87) EP2019059863 24.10.2019 (22) 16.04.2019 (54) DRILLING TOOL WITH IMPROVED LUBRICATION (73) MAPAL Fabrik für Präzisionswerkzeuge Dr. Kress KG (72) KRENZER, Ulrich TOPAL, Serkan (31) 102018205938 (32) 18.04.2018 (33) Germany	(22) 21.04.2020 (54) ARC WELDING CONTROL METHOD AND ARC WELDING DEVICE (73) Panasonic Intellectual Property Management Co., Ltd. (72) NOGUCHI, Takahiro KOWA, Masaru EGAWA, Haruki NAKAGAWA, Akira FUJIWARA, Junji (31) 2019081177 (32) 22.04.2019 (33) Japan
(51) B23B 25/06 B23B 3/30 B23Q 17/12 B23Q 17/00 (11) EP3954481 (21) EP20787685.5 (47) 13.09.2023 (87) JP2020014669 15.10.2020 (22) 30.03.2020 (54) MACHINE TOOL AND DETECTING METHOD (73) Citizen Watch Co., Ltd. (72) INOUE, Atsushi MURAMATSU, Masahiro NOGUCHI, Kenji KAZAHARI, Kohichi (31) 2019075849 (32) 11.04.2019 (33) Japan	(51) B23D 21/04 B26D 1/60 B26D 3/16 (11) EP3490747 (21) EP17758275.6 (47) 13.09.2023 (87) IB2017054432 01.02.2018 (22) 21.07.2017 (54) ROTARY KNIFE FOR PACKAGING-PRODUCING MACHINE AND METHOD USING SAID KNIFE (73) Aisapack Holding SA (72) THURRE, Sébastien STAHL, Christophe FERRIN, Didier (31) 16181260 (32) 26.07.2016 (33) European Patent Office (EPO)	(51) B23K 9/095 B23K 9/09 B23K 9/173 B23K 9/073 (11) EP3552748 (21) EP17878292.6 (47) 13.09.2023 (87) JP2017043442 14.06.2018 (22) 04.12.2017 (54) ARC WELDING METHOD AND ARC WELDING DEVICE (73) Daihen Corporation (72) BABA, Hayato ERA, Tetsuo (31) 2016236944 (32) 06.12.2016 (33) Japan
(51) B23B 41/12 B23B 29/03 C23C 4/02 (11) EP2879825 (21) EP13742162.4 (47) 13.09.2023 (87) EP2013002226 06.02.2014 (22) 26.07.2013 (54) METHOD AND TOOL FOR ROUGHENING AN INNER SURFACE OF A CYLINDRICAL BORE (73) Mercedes-Benz Group AG (72) NEUFANG, Oliver (31) 102012015163 (32) 31.07.2012 (33) Germany	(51) B23H 7/04 B23H 1/02 (11) EP3296050 (21) EP17001463.3 (47) 13.09.2023 (22) 30.08.2017 (54) WIRE ELECTRICAL DISCHARGE MACHINE (73) FANUC CORPORATION (72) TOMOYUKI, Furuta TOMOAKI, Matsunaga (31) 2016170605 (32) 01.09.2016 (33) Japan	(51) B23K 9/18 B23K 9/095 (11) EP3308895 (21) EP16807126.4 (47) 13.09.2023 (87) JP2016002786 15.12.2016 (22) 08.06.2016 (54) MULTI-ELECTRODE SUBMERGED ARC WELDING METHOD AND WELD JOINT MANUFACTURING METHOD (73) JFE Steel Corporation (72) KOZUKI, Shohei HAYAKAWA, Naoya OI, Kenji (31) 2015117242 (32) 10.06.2015 (33) Japan
(51) B23B 51/00 B23C 5/10 G06K 19/04 G06K 19/07 (11) EP3812068 (21) EP19205408.8 (47) 13.09.2023 (22) 25.10.2019	(51) B23K 9/073 B23K 9/10 B23K 9/09 B23K 9/133 B23K 9/16 B23K 9/173 B23K 103/04 (11) EP3960351 (21) EP20795977.6 (47) 13.09.2023 (87) JP2020017179 29.10.2020	

(51) B23K 9/28	B23K 20/227	MOTOYOSHI, Takashi
B23K 9/173	C22C 38/40	(31) 2017218510
B23K 9/12	C25D 5/50	(32) 13.11.2017
B23K 9/18	C22C 9/00	(33) Japan
B23K 9/02	B32B 15/01	(51) B23K 26/08
B23K 9/29	C25D 7/06	B23K 26/082
(11) EP4019178	H01M 4/66	(11) EP3486025
(21) EP20933162.8	B23K 101/18	(21) EP18205603.6
(47) 13.09.2023	B23K 101/36	(47) 13.09.2023
(87) CN2020116117	B23K 103/22	(22) 12.11.2018
04.11.2021	C23C 18/38	(54) LASER MACHINING METHOD, CONTROLLER, AND ROBOT SYSTEM
(22) 18.09.2020	C25D 3/38	(73) Kabushiki Kaisha Yaskawa Denki
(54) SWING/ROTATING GAS METAL ARC WELDING TORCH AND USE METHOD THEREFOR	(11) EP3859033	(72) FUKUSHIMA, Seiichiro
(73) Jiangsu University Of Science And Technology	(21) EP19949542.5	MOTOYOSHI, Takashi
(72) WANG, Jiayou	(47) 13.09.2023	(31) 2017218509
ZHU, Jie	(87) JP2019044723	(32) 13.11.2017
WANG, Tianwei	20.05.2021	(33) Japan
JIANG, Da	(22) 14.11.2019	(51) B23K 26/14
WANG, Biao	(54) FOIL FOR NEGATIVE-ELECTRODE CURRENT COLLECTOR OF SECONDARY CELL	B23K 26/36
JIANG, Yuqing	(73) Proterial, Ltd.	(11) EP3412401
WANG, Jianxin	(72) ODA, Yoshimitsu	(21) EP18174906.0
MAKSYMOW, Sergii	INOUE, Ryoji	(47) 13.09.2023
(31) 202010337635	(51) B23K 26/00	(22) 29.05.2018
(32) 26.04.2020	B23K 26/06	(54) LASER WELDING DEVICE
(33) China	B23K 26/38	(73) Toyota Jidosha Kabushiki Kaisha
(51) B23K 11/30	C03B 33/02	(72) NAKAMURA, Ko
B23K 11/36	C03B 33/09	MAKINO, Junichiro
B23P 19/04	C03C 15/00	YAMAMOTO, Takehiro
B25B 27/00	(11) EP3862127	(31) 2017109377
B23K 11/11	(21) EP21159236.5	(32) 01.06.2017
(11) EP3838469	(47) 13.09.2023	(33) Japan
(21) EP19857416.2	(22) 16.12.2014	(51) B23K 26/36
(47) 13.09.2023	(54) ARTICLE WITH A SUBSTRATE HAVING A PLURALITY OF THROUGH HOLES	B23K 26/04
(87) CN2019093459	(73) Corning Incorporated	H01S 3/10
12.03.2020	(72) MARJANOVIC, Sasha	(11) EP3689530
(22) 28.06.2019	PIECH, Garrett Andrew	(21) EP20164591.8
(54) ELECTRODE DISASSEMBLY DEVICE FOR SPOT WELDING	PONS SIEPERMANN, Carlos	(47) 13.09.2023
(73) Kyokutoh China Co., Ltd.	SHANMUGAM, Shyamala	(22) 13.09.2010
(72) LIU, Junliang	TSUDA, Sergio	(54) INDUSTRIAL HIGH POWER FIBER LASER SYSTEM WITH OPTICAL MONITORING ASSEMBLY
YANG, Xiande	VARGA, Zsigmond	(73) IPG Photonics Corporation
(31) 201910226222	WAGNER, Robert Stephen	(72) Moroni, Giovanni
201821443725 U	(31) 201414535800	Colombo, Daniele
(32) 25.03.2019	201462073191 P	Previtali, Barbara
04.09.2018	201462023429 P	Cattaneo, Stefano
(33) China	201361917179 P	Rossotti, Lorenzo
China	(32) 07.11.2014	Grapov, Yuri
(51) B23K 11/36	31.10.2014	(51) B23K 26/53
B23K 37/00	11.07.2014	C03C 21/00
(11) EP3464988	17.12.2013	B23K 26/062
(21) EP17726951.1	(33) United States of America	B23K 26/0622
(47) 13.09.2023	United States of America	C03B 33/04
(87) EP2017063235	United States of America	B23K 26/06
07.12.2017	United States of America	B23K 26/359
(22) 31.05.2017	(51) B23K 26/03	B23K 103/00
(54) PROTECTIVE COVER	B23K 26/06	C03B 33/02
(73) Advanced Systems of Protection, SAS	B23K 26/08	C03C 23/00
(72) PETIT, Philippe	B23K 26/082	(11) EP3587366
GRANDIEU, Fabien	(11) EP3486024	(21) EP18756881.1
PICHON, Philippe	(21) EP18205907.1	(47) 13.09.2023
ARDITTI, Pierre	(47) 13.09.2023	(87) JP2018002937
(31) 1655101	(22) 13.11.2018	30.08.2018
(32) 03.06.2016	(54) LASER MACHINING METHOD, CONTROLLER, AND ROBOT SYSTEM	(22) 30.01.2018
(33) France	(73) Kabushiki Kaisha Yaskawa Denki	(54) GLASS PLATE AND MANUFACTURING METHOD OF GLASS PLATE
(51) B23K 20/04	(72) FUKUSHIMA, Seiichiro	(73) AGC Inc.

(72) ITO, Jun NAGASAWA, Ikuo (31) 2017030506 (32) 21.02.2017 (33) Japan	(22) 18.10.2019 (54) CLAMPING DEVICE BUILT UP ON AN ADJUSTABLE MACHINE TABLE (73) Hofer Spanntechnik GmbH (72) Hofer, Guido	B24B 53/017 B24D 18/00 (11) EP2879838 (21) EP13825436.2 (47) 13.09.2023 (87) US2013052834 06.02.2014 (22) 31.07.2013 (54) ABRASIVE ARTICLES WITH PRECISELY SHAPED FEATURES AND METHOD OF MAKING THEREOF (73) 3M Innovative Properties Company (72) LEHUU, Duy K. SHANTI, Noah O. XIE, Junqing BRETSCHER, Kathryn R. (31) 201261678666 P (32) 02.08.2012 (33) United States of America
(51) B23P 15/00 B23H 9/10 F01D 5/04 B23C 3/18 (11) EP3445523 (21) EP17717219.4 (47) 13.09.2023 (87) IB2017050785 08.09.2017 (22) 13.02.2017 (54) METHOD FOR MANUFACTURING BLADED RINGS FOR RADIAL TURBOMACHINES (73) EXERGY INTERNATIONAL S.R.L (72) SPADACINI, Claudio RIZZI, Dario (31) UB20161145 (32) 29.02.2016 (33) Italy	(51) B23Q 1/03 (11) EP4074457 (21) EP22167636.4 (47) 13.09.2023 (22) 11.04.2022 (54) WORKPIECE LOCKING SYSTEM AND METHOD FOR WORKING CENTRES (73) C.M.S. S.p.A. (72) MANTEGA, Claudio MAZZA, Michele (31) 202100009452 (32) 14.04.2021 (33) Italy	(87) US2013052834 06.02.2014 (22) 31.07.2013 (54) ABRASIVE ARTICLES WITH PRECISELY SHAPED FEATURES AND METHOD OF MAKING THEREOF (73) 3M Innovative Properties Company (72) LEHUU, Duy K. SHANTI, Noah O. XIE, Junqing BRETSCHER, Kathryn R. (31) 201261678666 P (32) 02.08.2012 (33) United States of America
(51) B23P 15/10 (11) EP3471914 (21) EP17719620.1 (47) 13.09.2023 (87) EP2017060109 21.12.2017 (22) 27.04.2017 (54) STEEL PLATE BRAKE PISTON FOR A HYDRAULIC BRAKE (73) Continental Automotive Technologies GmbH Erdrich Umformtechnik GmbH (72) SCHMIDT, Tobias WÜRZ, Matthias LEIDECKER, Norbert KLACIK, Martin MÜLLER, Matthias ZEIBIG, Uwe LORENZ, Ulrich BAUERSFELD, Rico (31) 102016210817 (32) 16.06.2016 (33) Germany	(51) B23Q 11/00 (11) EP3403762 (21) EP17171966.9 (47) 13.09.2023 (22) 19.05.2017 (54) MACHINE TOOL WITH SAFETY SYSTEM (73) Felder KG Technische Universität Wien (72) WEILER, Thomas CAUDR, Helmut BLEICHER, Friedrich	(87) US2013052834 06.02.2014 (22) 31.07.2013 (54) ABRASIVE ARTICLES WITH PRECISELY SHAPED FEATURES AND METHOD OF MAKING THEREOF (73) 3M Innovative Properties Company (72) LEHUU, Duy K. SHANTI, Noah O. XIE, Junqing BRETSCHER, Kathryn R. (31) 201261678666 P (32) 02.08.2012 (33) United States of America
(51) B23P 19/02 B23P 11/02 B25B 27/02 B25B 27/04 B23P 19/027 F01D 5/02 (11) EP3536446 (21) EP19159246.8 (47) 13.09.2023 (22) 26.02.2019 (54) HYDRAULIC PRESSING TOOL WITH INTEGRATED INDUCTION DEVICE (73) MTU Aero Engines AG (72) Cerovsky, Florian (31) 102018203274 (32) 06.03.2018 (33) Germany	(51) B24B 1/00 (11) EP3334560 (21) EP16837513.7 (47) 13.09.2023 (87) US2016046216 23.02.2017 (22) 09.08.2016 (54) METHOD FOR REMOVING CONTAMINATION FROM A CHUCK SURFACE (73) M Cubed Technologies Inc. (72) GRATRIX, Edward J. (31) 201562205349 P (32) 14.08.2015 (33) United States of America	(87) US2013052834 06.02.2014 (22) 31.07.2013 (54) ABRASIVE ARTICLES WITH PRECISELY SHAPED FEATURES AND METHOD OF MAKING THEREOF (73) 3M Innovative Properties Company (72) LEHUU, Duy K. SHANTI, Noah O. XIE, Junqing BRETSCHER, Kathryn R. (31) 201261678666 P (32) 02.08.2012 (33) United States of America
(51) B23Q 1/00 (11) EP3808498 (21) EP19405017.5 (47) 13.09.2023	(51) B24B 7/06 B24B 7/22 B24B 41/047 B24B 41/02 (11) EP3532242 (21) EP17787201.7 (47) 13.09.2023 (87) EP2017077254 03.05.2018 (22) 25.10.2017 (54) SANDING-POLISHING MACHINE FOR PLATE-LIKE PRODUCTS MADE OF STONE MATERIAL (73) Lo Piccolo, Rosario Tupini, Giovanni (72) Lo Piccolo, Rosario Tupini, Giovanni (31) 201600108003 (32) 26.10.2016 (33) Italy	(87) US2013052834 06.02.2014 (22) 31.07.2013 (54) ABRASIVE ARTICLES WITH PRECISELY SHAPED FEATURES AND METHOD OF MAKING THEREOF (73) 3M Innovative Properties Company (72) LEHUU, Duy K. SHANTI, Noah O. XIE, Junqing BRETSCHER, Kathryn R. (31) 201261678666 P (32) 02.08.2012 (33) United States of America
	(51) B24B 37/24 B24B 37/26	(87) US2013052834 06.02.2014 (22) 31.07.2013 (54) ABRASIVE ARTICLES WITH PRECISELY SHAPED FEATURES AND METHOD OF MAKING THEREOF (73) 3M Innovative Properties Company (72) LEHUU, Duy K. SHANTI, Noah O. XIE, Junqing BRETSCHER, Kathryn R. (31) 201261678666 P (32) 02.08.2012 (33) United States of America
		(51) B24C 1/00 B24C 7/00 C01B 32/55 B30B 11/28 B30B 11/22 (11) EP3898081 (21) EP21706258.7 (47) 13.09.2023 (87) EP2021053903 10.09.2021 (22) 17.02.2021 (54) DRY-ICE PELLET BLASTING METHOD AND APPARATUS FOR CARRYING OUT SAME (73) ACP Systems AG (72) Jäger, Felix Haas, Andreas Illg, Jonas (31) 102020106111 (32) 06.03.2020 (33) Germany
		(51) B24C 5/06 (11) EP2650084 (21) EP13163341.4 (47) 13.09.2023 (22) 11.04.2013 (54) TURBINE (73) Straaltechniek International N.V./S.A. (72) Naaijkens, Geert-Jan Petrus (31) 201200244 (32) 11.04.2012 (33) Belgium
		(51) B25B 27/06 B25B 27/073 B60B 27/00 (11) EP3442751 (21) EP17783289.6 (47) 13.09.2023 (87) US2017027724 19.10.2017 (22) 14.04.2017 (54) BEARING RACE INSTALLER/ REMOVER (73) Tiger Tool International Incorporated (72) ANDREWS, Michael (31) 201662323076 P (32) 15.04.2016 (33) United States of America
		(51) B25C 1/08

(11) EP3575039	FÜNFER, Josef	(21) EP19702301.3
(21) EP19152478.4	(31) 19208476	(47) 13.09.2023
(47) 13.09.2023	(32) 12.11.2019	(87) EP2019052911
(22) 18.01.2019	(33) European Patent Office (EPO)	15.08.2019
(54) DRIVING TOOL	(51) B25F 5/02	(22) 06.02.2019
(73) Max Co., Ltd.	A01G 3/053	(54) ASSEMBLING PARTS IN AN
(72) WATANABE, Eiichi	A01G 3/06	ASSEMBLY LINE
YUKI, Takashi	B23D 49/12	(73) ABB Schweiz AG
YAMAMOTO, Yu	B27B 17/00	(72) ARTIGAS, Jordi
KIMURA, Mitsuhiro	(11) EP3888852	PONS BERTRAN, Roger
(31) 2018084501	(21) EP21176520.1	VIDAL RIBAS, Jorge
2018084500	(47) 13.09.2023	ZHANG, Biao
2018084499	(22) 02.07.2010	CASANELLES MOIX, Ramon
2018084498	(54) BATTERY POWERED TOOL	(31) 18382065
2018026624	(73) HUSQVARNA AB	(32) 06.02.2018
2018022482	(72) BERGQUIST, Oskar	(33) European Patent Office (EPO)
2018022481	MARTINSSON, Pär	(51) B25J 9/16
2018022480	BJÖRNLINGER, Johan	(11) EP3760392
2018007633	(51) B25H 3/00	(21) EP20183854.7
2018007521	B25H 3/04	(47) 13.09.2023
2018007520	B65D 13/00	(22) 03.07.2020
(32) 25.04.2018	B65D 83/00	(54) METHOD AND SYSTEM FOR
25.04.2018	B65D 85/00	INSPECTING AND / OR MOUNTING AN
25.04.2018	(11) EP3265273	OBJECT USING A ROBOT
19.02.2018	(21) EP16714239.7	(73) Battenberg, Günther
09.02.2018	(47) 13.09.2023	(72) Battenberg, Günther
09.02.2018	(87) EP2016054832	(31) 102019118002
09.02.2018	09.09.2016	(32) 03.07.2019
19.01.2018	(22) 07.03.2016	(33) Germany
19.01.2018	(54) A RECEPTACLE FOR FLEXIBLE	(51) B25J 9/16
19.01.2018	ELONGATE MEMBERS	(11) EP4061586
(33) Japan	(73) Braniff, Shane	(21) EP20824085.3
Japan	(72) Braniff, Shane	(47) 13.09.2023
Japan	(31) 201503730	(87) EP2020082662
Japan	(32) 05.03.2015	27.05.2021
Japan	(33) United Kingdom	(22) 19.11.2020
Japan	(51) B25J 7/00	(54) FORCE MEASUREMENT AND FORCE
Japan	G02B 21/32	GENERATION IN REDUNDANT ROBOT
Japan	(11) EP3362799	MANIPULATORS
Japan	(21) EP15906190.2	(73) Franka Emika GmbH
Japan	(47) 13.09.2023	(72) SPENNINGER, Andreas
Japan	(87) FI2015050689	MORGANTI, Marco
Japan	20.04.2017	EL DINE, Kamal Mohy
(51) B25D 11/00	(22) 13.10.2015	(31) 102019131400
(11) EP3683021	(54) LINKED MICROMECHANICAL	(32) 21.11.2019
(21) EP20151879.2	POSITIONING APPARATUS FOR REAL-	(33) Germany
(47) 13.09.2023	TIME TESTING AND MEASUREMENT	(51) B25J 13/08
(22) 15.01.2020	(73) Sensapex Oy	B25J 15/00
(54) HAMMER DRILL	(72) VÄHÄSÖYRINKI, Mikko	B25J 15/02
(73) Black & Decker Inc.	VIMPARI, Markku	E21B 15/00
(72) Ruethers, Brono	(51) B25J 9/16	E21B 19/14
(31) 201914118	(11) EP2931485	E21B 19/20
201900604	(21) EP13814788.9	(11) EP3829823
(32) 01.10.2019	(47) 13.09.2023	(21) EP19758551.6
16.01.2019	(87) US2013075012	(47) 13.09.2023
(33) United Kingdom	19.06.2014	(87) US2019044974
United Kingdom	(22) 13.12.2013	06.02.2020
(51) B25D 17/06	(54) BARE HAND ROBOT PATH TEACHING	(22) 02.08.2019
(11) EP4058251	(73) ABB Schweiz AG	(54) DEVICES, SYSTEMS, AND METHODS
(21) EP20797491.6	(72) BOCA, Remus	FOR ROBOTIC PIPE HANDLING
(47) 13.09.2023	NIDAMARTHI, Srinivas	(73) National Oilwell Varco, L.P.
(87) EP2020080640	FUHLBRIGGE, Thomas, A.	(72) MCKENZIE, Andrew Ian
20.05.2021	(31) 201261737246 P	DONNALLY, Robert Benjamin
(22) 02.11.2020	(32) 14.12.2012	(31) 201811449262
(54) IMPACT DEVICE ASSEMBLY	(33) United States of America	201810880362
(73) Hilti Aktiengesellschaft	(51) B25J 9/16	201916431533
(72) PLANK, Uto	(11) EP3749491	201916431540
MANDEL, Ulrich		201962797042 P



(32) 28.11.2018	(47) 13.09.2023	Fahnenstiel, Andrej
03.08.2018	(22) 09.03.2018	(51) B29B 7/24
04.06.2019	(54) RAZOR CARTRIDGE WITH	B29B 7/60
04.06.2019	LUBRICATING STRIP	G05D 11/13
25.01.2019	(73) BIC Viorex Single Member S.A.	(11) EP4051475
(33) China	(72) SKARMOUTSOU, Amalia	(21) EP20789626.7
China	CHATZIGRIGORIOU, Nikolaos	(47) 13.09.2023
United States of America	KLIMANOGLU, Dimitrios	(87) EP2020079151
United States of America	(51) B26B 21/52	06.05.2021
United States of America	B26B 21/22	(22) 16.10.2020
(51) B25J 15/00	(11) EP3842196	(54) DEVICE AND METHOD FOR
B23P 19/04	(21) EP19219253.2	REFILLING AND TRANSFERRING
B29C 65/00	(47) 13.09.2023	SOLID RAW MATERIALS FROM A
B29C 65/02	(22) 23.12.2019	CONTAINER INTO A MIXER
B29C 65/18	(54) COUPLING MECHANISM	(73) BASF Coatings GmbH
B29C 65/78	(73) BIC Viorex Single Member S.A.	(72) BERG, Ralf
B29L 31/30	(72) KOPELAS, Panagiotis	JOEGE, Frank
B64F 5/10	GEORGAKIS, Georgios	FOUILLET, Jeremy
(11) EP3113915	PEARCE, Sam	HUESER, Bernhard
(21) EP15712080.9	(51) B26D 1/547	(31) 19205853
(47) 13.09.2023	B23D 57/00	(32) 29.10.2019
(87) EP2015054557	B26D 7/02	(33) European Patent Office (EPO)
11.09.2015	(11) EP3512674	(51) B29B 7/42
(22) 05.03.2015	(21) EP17851598.7	B29B 7/90
(54) JOINING TOOL, JOINING DEVICE AND	(47) 13.09.2023	B29B 9/06
JOINING METHOD	(87) US2017051770	B29B 9/12
(73) KUKA Systems GmbH	22.03.2018	B29B 9/14
(72) HÄNTZSCHEL, Jörg	(22) 15.09.2017	B29C 45/00
STROBL, Norbert	(54) CHAIN DRIVEN DIAMOND WIRE	B29C 48/00
(31) 202014101000 U	CUTTER	B29C 48/04
(32) 06.03.2014	(73) Claxton Engineering Services AS	B29C 48/05
(33) Germany	(72) EIE, Bjørn Larsen	B29C 48/30
(51) B25J 18/06	BERANEK, Michael	B29B 7/82
F16F 1/32	LINDSØ, Steffan Kruse	B29K 105/26
A61B 34/30	(31) 201662395268 P	B29K 23/00
(11) EP3954509	(32) 15.09.2016	(11) EP3922427
(21) EP20786728.4	(33) United States of America	(21) EP20753000.7
(47) 13.09.2023	(51) B26D 7/01	(47) 13.09.2023
(87) JP2020016305	B26F 1/38	(87) JP2020004304
15.10.2020	B26D 3/08	13.08.2020
(22) 13.04.2020	H05F 3/02	(22) 05.02.2020
(54) FLEXIBLE MEMBER	D06H 7/24	(54) MOLDING MACHINE, AND METHOD
(73) NHK Spring Co., Ltd.	A41H 43/00	FOR MANUFACTURING A MOLDED
(72) KUOKAWA, Shimpei	A41H 43/02	ARTICLE OF THERMOPLASTIC RESIN
KAWAI, Yosuke	A41H 15/00	COMPOSITION
(31) 2019075949	(11) EP3154752	(73) Fukuoka University
(32) 11.04.2019	(21) EP15738993.3	(72) YAO, Shigeru
(33) Japan	(47) 13.09.2023	PHANTHONG, Patchiya
(51) B26B 3/08	(87) IB2015054428	YAMASAKI, Natsumi
B26B 29/02	17.12.2015	YAMASHITA, Keitaro
(11) EP3804925	(22) 11.06.2015	MICHIUE, Tetsuyoshi
(21) EP19811423.3	(54) APPARATUS FOR PROCESSING,	(31) 2019021401
(47) 13.09.2023	IN PARTICULAR FOR CUTTING A	(32) 08.02.2019
(87) JP2019021495	CORRESPONDING MATERIAL	(33) Japan
05.12.2019	(73) BIERREBI ITALIA S.R.L.	(51) B29B 13/02
(22) 30.05.2019	(72) TEDESCHI, Paolo	B29B 13/06
(54) SAFETY UTILITY KNIFE	DE GENNARO, Mauro	B29C 71/00
(73) OLFA Corporation	(31) BO20140334	C08J 7/02
(72) TAKASHIMA, Yosuke	(32) 13.06.2014	C08K 7/14
(31) 2018104350	(33) Italy	C08K 3/36
(32) 31.05.2018	(51) B26D 7/06	H01B 3/30
(33) Japan	(11) EP3827947	(11) EP3838570
(51) B26B 21/44	(21) EP19211744.8	(21) EP20213803.8
A61Q 9/00	(47) 13.09.2023	(47) 13.09.2023
A61K 8/81	(22) 27.11.2019	(22) 14.12.2020
A61K 8/86	(54) FOOD SLICER	(54) METHOD FOR TREATING A
(11) EP3536468	(73) Bizerba SE & Co. KG	MATERIAL CHOSEN FROM A
(21) EP18305254.7	(72) Schmon, Jens	

POLYAMIDE, A POLYESTER AND A POLY(METH)ACRYLATE	B29L 31/08 (11) EP3898162	(22) 30.05.2018 (54) SINGLE-PHASE SOLUTION MOLDING
(73) Commissariat à l'énergie atomique et aux énergies alternatives	(21) EP19809019.3 (47) 13.09.2023	(73) Nike Innovate C.V. (72) DARLAND, Jeffrey E.
Schneider Electric Industries SAS	(87) EP2019081802 25.06.2020	MACE, Ryan Alvin (31) 201762513146 P
(72) PONCELET, Olivier	(22) 19.11.2019	(32) 31.05.2017
GETTO, Daniel	(54) ROTOR BLADE MOULD FOR PRODUCING A ROTOR BLADE, AND	(33) United States of America
RENARD, Olivier	METHOD	(51) B29C 44/30
HASSANZADEH, Mehrdad	(73) Wobben Properties GmbH	B29C 44/32
MALADEN, Romain	(72) SCHREIBER, Joachim	B29C 44/46
HELAL, Karim	(31) 102018133508	(11) EP3883737
(31) 1915262	(32) 21.12.2018	(21) EP19829288.0
(32) 20.12.2019	(33) Germany	(47) 13.09.2023
(33) France	(51) B29C 35/08	(87) FR2019052748 28.05.2020
(51) B29C 33/00	H01Q 21/00	(22) 19.11.2019
B29C 33/30	H01Q 1/28	(54) PROCESS AND SYSTEM FOR THE PREPARATION OF A POLYURETHANE/ POLYISOCYANURATE FIBROUS FOAM BLOCK OF A THERMAL INSULATION BLOCK OF A TANK
(11) EP3932644	H01Q 7/00	(73) Gaztransport et Technigaz
(21) EP21181316.7	H01Q 11/08	(72) DEWOLF, Laetitia
(47) 13.09.2023	(11) EP3421210	DE COMBARIEU, Guillaume
(22) 24.06.2021	(21) EP18168172.7	(31) 1871590
(54) SYSTEMS AND METHODS FOR PRODUCING PARTS AT ELEVATED TEMPERATURES	(47) 13.09.2023	(32) 19.11.2018
(73) Thermwood Corporation	(22) 19.04.2018	(33) France
(72) Kenneth J. SUSNJARA	(54) INDUCTION CURING OF CELL-BASED STRUCTURAL ARRAYS	(51) B29C 44/36
(31) 202016915624	(73) The Boeing Company	B05B 7/00
(32) 29.06.2020	(72) Hafenrichter, Joseph Lawrence	(11) EP4063094
(33) United States of America	Marshall, Joseph A.	(21) EP22160955.5
(51) B29C 33/38	Georgeson, Gary Earnest	(47) 13.09.2023
B29C 39/34	Banks, David L.	(22) 09.03.2022
B29C 64/106	Miller, Robert James	(54) POLYURETHANE FOAMING PLANT FOR ROLLER SHUTTER SLATS
B29C 64/10	Mori, Paul B.	(73) Dallan S.p.A.
B29C 64/40	(31) 201715636819	(72) DALLAN, Andrea
B29C 64/209	(32) 29.06.2017	(31) 202100006986
B29C 64/245	(33) United States of America	(32) 23.03.2021
B29C 64/241	(51) B29C 43/52	(33) Italy
B29C 64/236	B29C 43/34	(51) B29C 44/58
B33Y 10/00	B29C 43/08	B29C 44/34
B33Y 30/00	B29C 31/04	B29C 33/56
B33Y 70/00	B29C 35/08	B29C 44/60
(11) EP3720683	B29C 35/04	B29C 44/44
(21) EP18884951.7	B29L 31/00	B29C 35/04
(47) 13.09.2023	B29L 31/56	(11) EP3661718
(87) IL2018051258	(11) EP4126493	(21) EP18773420.7
13.06.2019	(21) EP21723918.5	(47) 13.09.2023
(22) 20.11.2018	(47) 13.09.2023	(87) EP2018075307 18.04.2019
(54) COMPLEX SHAPED 3D OBJECTS FABRICATION	(87) IB2021053859 11.11.2021	(22) 19.09.2018
(73) Massivit 3D Printing Technologies Ltd.	(22) 06.05.2021	(54) TOOL
(72) OSIROFF, Ricardo	(54) APPARATUS AND METHOD FOR MAKING OBJECTS BY MEANS OF COMPRESSION MOULDING	(73) Siegfried Hofmann GmbH
UZAN, Moshe	(73) SACMI COOPERATIVA MECCANICI IMOLA SOCIETA' COOPERATIVA	(72) SCHÜTZ, Johannes
YAKUBOV, Igor	(72) PUCCI, Fabrizio	BECK, Jonas
GARTY, Shai	PARRINELLO, Fiorenzo	SCHMIEDECK, Marcus
MANNA, Cesar	(31) 202000010039	(31) 102017123796
(31) 201762595096 P	(32) 06.05.2020	(32) 12.10.2017
(32) 06.12.2017	(33) Italy	(33) Germany
(33) United States of America	(51) B29C 44/10	(51) B29C 45/00
(51) B29C 33/38	B29C 44/34	B29C 45/16
F03D 1/06	B29C 44/08	D06F 37/26
B29D 99/00	(11) EP3630440	B29K 105/26
B29C 70/30	(21) EP18734348.8	B29L 31/00
B29C 33/02	(47) 13.09.2023	(11) EP3868540
B29B 7/92	(87) US2018035128	(21) EP20158356.4
B29B 7/90	06.12.2018	
B29B 7/74		
B29C 37/00		
B29C 41/36		
B29C 41/08		

(47) 13.09.2023	(51) B29C 48/05	(32) 15.01.2019
(22) 19.02.2020	B29C 48/68	(33) China
(54) METHOD FOR PRODUCING A COMPONENT FOR A WATER BEARING APPLIANCE AND COMPONENT OBTAINED WITH SUCH METHOD	B29C 64/321 B29C 64/343 B29C 64/209 B29C 48/53	(51) B29C 49/54 B29C 49/42 B29C 49/28 B29C 49/12 B29C 67/00 B65D 79/00 B65D 1/02 B29L 31/00 B29C 49/48
(73) ELECTROLUX APPLIANCES AKTIEBOLAG	B29C 48/505 B29C 48/02	(11) EP3917753
(72) SANITA', Massimo CREMA, Luca	B29C 48/80 B29C 48/30 B29C 48/875	(21) EP19913047.7 (47) 13.09.2023 (87) US2019015676 06.08.2020 (22) 29.01.2019
(51) B29C 45/14 B29C 45/33	(11) EP3463799	(54) VERTICAL DISPLACEMENT DEVICES AND METHODS FOR MECHANICALLY INVERTING A THERMOPLASTIC CONTAINER BASE
(11) EP3946879	(21) EP16778189.7	(73) Amcor Rigid Packaging USA, LLC
(21) EP20704249.0	(47) 13.09.2023	(72) STELZER, James
(47) 13.09.2023	(87) DE2016000228 30.11.2017	(51) B29C 49/78 B29C 49/80 B29C 49/02 B29C 49/06 B29K 67/00 B29L 31/00
(87) EP2020052925 08.10.2020	(22) 27.05.2016	(11) EP3894178 (21) EP19813404.1 (47) 13.09.2023 (87) IB2019060699 18.06.2020
(22) 06.02.2020	(54) SYSTEM FOR THE ADDITIVE MANUFACTURE OF METAL PARTS	(22) 12.12.2019
(54) METHOD FOR BACK-MOLDING COLD-SHAPED GLASS COMPONENTS USING PLASTIC	(73) AIM3D GmbH	(54) DEVICE FOR OPTICAL INSPECTION OF PARISONS
(73) VOLKSWAGEN AKTIENGESELLSCHAFT	(72) LIEBERWIRTH, Clemens SEITZ, Hermann	(73) SACMI COOPERATIVA MECCANICI IMOLA SOCIETA' COOPERATIVA
(72) WACHENSCHWAN, Volker SCHÜTZ, Christine DEWALD, Wilma	(51) B29C 48/285 B29C 48/36 B29C 48/92 B29B 7/60 B29B 7/72 B29C 45/18 B65G 65/46	(72) LAICO, Donato NIGRO, Simone
(31) 102019204582	(11) EP3980240	(31) 201800011107
(32) 01.04.2019	(21) EP20723071.5	(32) 14.12.2018
(33) Germany	(47) 13.09.2023	(33) Italy
(51) B29C 45/26 F04C 5/00 B29C 45/00 B29L 31/00 B29C 45/27 B29K 77/00 B29K 105/12	(87) EP2020061743 10.12.2020	(51) B29C 51/30 B29C 51/00 B29C 51/26 B29C 43/36 B29C 65/20 B29L 23/00 B29L 31/30 B32B 3/30 B32B 5/02 B60N 3/04 B60R 13/08 D04H 1/00 D04H 1/55 D04H 1/76
(11) EP3655224	(22) 28.04.2020	B29C 65/02 B29C 51/10 B29C 51/08 B29C 51/32 B32B 1/08 B32B 3/02 B32B 3/20 B32B 5/18 B32B 5/26 B32B 7/02
(21) EP18745675.1	(54) METHOD OF MONITORING A FILLING LEVEL OF A FEEDING DEVICE AND DEVICE FOR CARRYING OUT THE METHOD AND INJECTION MECHANISM/EXTRUSIVE UNIT COMPRISING SUCH A DEVICE	
(47) 13.09.2023	(73) KraussMaffei Technologies GmbH	
(87) GB2018051971 24.01.2019	(72) TOPIC, Nicolina MOSER, Stefan WIELAND, Cordula	
(22) 11.07.2018	(31) 102019115122	
(54) A ROTARY DIAPHRAGM POSITIVE DISPLACEMENT PUMP	(32) 05.06.2019	
(73) Charles Austen Pumps Limited	(33) Germany	
(72) SHEPHERD, William Eric FULLER, Robert David	(51) B29C 49/20 B29C 49/42 B29C 33/18 B29L 31/00	
(31) 201711611	(11) EP3912797	
(32) 19.07.2017	(21) EP20741547.2	
(33) United Kingdom	(47) 13.09.2023	
(51) B29C 45/28 B29C 45/76 B29C 45/77 B29C 45/78 B29C 45/27	(87) CN2020071102 23.07.2020	
(11) EP3808531	(22) 09.01.2020	
(21) EP20202281.0	(54) HOLLOW BODY MOLDING AID AND MOLDING METHOD	
(47) 13.09.2023	(73) Yapp Automotive Systems Co., Ltd.	
(22) 16.10.2020	(72) JIANG, Lin XU, Songjun WU, Lushun GAO, Dejun YANG, Zhongya ZHANG, Chao	
(54) METHOD OF OPERATING A NEEDLE VALVE NOZZLE	(31) 201910036566	
(73) Günther Heisskanaltechnik GmbH		
(72) Günther, Herbert Sommer, Siegrid Schnell, Torsten		
(31) 102019127988		
(32) 16.10.2019		
(33) Germany		

<p>B32B 7/12 B32B 7/04 (11) EP3969255 (21) EP20727921.7 (47) 13.09.2023 (87) EP2020062695 26.11.2020 (22) 07.05.2020 (54) METHOD FOR PRODUCING A HOLLOW PROFILED COMPONENT, MOLDING TOOL, AND HOLLOW PROFILED COMPONENT (73) Odenwald Chemie GmbH (72) HOFSTRÖSSLER, Patrick FRIEBEL, Kevin BENZUS, Boris HOTZ, Dominik (31) 102019113056 (32) 17.05.2019 (33) Germany</p> <hr/> <p>(51) B29C 63/32 B29C 63/00 F16L 55/165 E03F 3/06 B29K 27/06 B29K 305/00 (11) EP3508328 (21) EP17846623.1 (47) 13.09.2023 (87) JP2017031282 08.03.2018 (22) 30.08.2017 (54) PIPE MANUFACTURING DEVICE FOR SPIRAL PIPE (73) Sekisui Chemical Co., Ltd. (72) SUGAHARA, Hiroshi BABA, Tatsurou TSUDA, Naoya YAMASAKI, Masahiro (31) 2017152491 2016178380 2016167491 (32) 07.08.2017 13.09.2016 30.08.2016 (33) Japan Japan Japan</p> <hr/> <p>(51) B29C 64/00 F03D 13/20 E04H 12/34 E04H 12/12 B29C 64/106 B33Y 10/00 B33Y 80/00 E04G 21/04 E04H 12/18 (11) EP3856485 (21) EP18786647.0 (47) 13.09.2023 (87) US2018053457 02.04.2020 (22) 28.09.2018 (54) METHOD FOR MANUFACTURING A TELESCOPING WIND TURBINE TOWER STRUCTURE (73) General Electric Company (72) TURNQUIST, Norman Arnold</p>	<p>LISSIANSKI, Vitali Victor FANG, Biao COOPER, Gregory Edward MEYER, Pascal</p> <hr/> <p>(51) B29C 64/153 B29C 64/214 B29C 64/393 B33Y 30/00 B33Y 50/02 B33Y 10/00 B22F 3/105 B22F 10/28 B22F 12/00 B22F 12/67 B22F 12/90 (11) EP3572211 (21) EP18173911.1 (47) 13.09.2023 (22) 23.05.2018 (54) APPARATUS AND METHOD FOR ADDITIVELY MANUFACTURING THREE-DIMENSIONAL OBJECTS (73) Concept Laser GmbH (72) Schumann, Philipp Hiemann, Denise Bräuer, Marc Hoch, Johanna Voigt, Timo</p> <hr/> <p>(51) B29C 64/153 B29C 64/40 B22F 10/28 B22F 10/47 B33Y 40/20 B33Y 10/00 B22F 10/66 B22F 12/41 (11) EP3205422 (21) EP17155569.1 (47) 13.09.2023 (22) 10.02.2017 (54) METHODS AND BREAKABLE SUPPORTS FOR ADDITIVE MANUFACTURING (73) General Electric Company (72) FIELDMAN, Zachary David (31) 201615042001 (32) 11.02.2016 (33) United States of America</p> <hr/> <p>(51) B29C 64/165 B33Y 10/00 B33Y 70/00 B33Y 80/00 B33Y 70/10 B29C 64/40 (11) EP3455055 (21) EP16901844.7 (47) 13.09.2023 (87) US2016032027 16.11.2017 (22) 12.05.2016 (54) THREE-DIMENSIONAL (3D) PRINTING (73) Hewlett-Packard Development Company, L.P. (72) ERICKSON, Kristopher J. ZHAO, Lihua TOM, Howard S. HARTMAN, Aja ZHAO, Yan</p>	<p>FITZHUGH, Andrew</p> <hr/> <p>(51) B29C 64/386 B33Y 50/02 (11) EP3475066 (21) EP17739334.5 (47) 13.09.2023 (87) NL2017050405 04.01.2018 (22) 19.06.2017 (54) 3D PRINTER AND METHOD FOR LIMITING INHERENT ACCRETION (73) Atum Holding B.V. (72) BUDEL, Tristram TETTEROO, Ramon Rudolf BUDEL, Chanil (31) 2017052 (32) 27.06.2016 (33) Netherlands</p> <hr/> <p>(51) B29C 65/02 B29C 65/10 B29C 65/48 B29C 65/50 B29C 65/78 B29D 35/14 A43B 3/00 A43B 7/12 A43B 23/02 A43B 23/04 A43B 23/07 A43D 3/02 B29L 31/48 B29L 31/50 (11) EP3854243 (21) EP21151084.7 (47) 13.09.2023 (22) 12.01.2021 (54) PROCESS FOR THERMO-ADHESIVE BONDING OF SEMI-FINISHED PRODUCTS (73) MACPI S.p.A. PRESSING DIVISION (72) CARTABIA, Giovanni LANCINI, Paolo (31) 202000001162 (32) 22.01.2020 (33) Italy</p> <hr/> <p>(51) B29C 65/06 B29C 65/64 F16B 5/01 F16B 37/04 F16B 37/06 B29K 101/12 B29K 101/10 B29K 705/00 B29K 705/02 B29K 705/12 B29K 105/06 (11) EP3606729 (21) EP18714539.6 (47) 13.09.2023 (87) EP2018058850 11.10.2018 (22) 06.04.2018 (54) BONDING OBJECTS TOGETHER (73) WoodWelding AG (72) MAYER, Jörg TORRIANI, Laurent KVIST, Joakim MOOSER, Patrick</p>
--	--	--

(31) 4652017	(54) DEVICE FOR SEPARATING AT	COVER UNIT OF THE DISTRIBUTOR
(32) 06.04.2017	LEAST ONE FLAT ELEMENT INTO AT	DEVICE, AND A METHOD FOR
(33) Switzerland	LEAST TWO FLAT ELEMENTS AND	INTRODUCING COMPRESSED AIR
(51) B29C 65/16	INSTALLATION FOR AUTOMATED	AND/OR SEALANT INTO A PNEUMATIC
C08G 69/26	CLOSING OF SHELLS WITH AT LEAST	VEHICLE TYRE
C08L 77/06	ONE FILM	(73) Continental Reifen Deutschland GmbH
B29C 65/82	(73) Jörg von Seggern Maschinenbau GmbH	(72) SCHLOSSER, Florian - c/o Continental
B29K 77/00	(72) von Seggern, Jörg	AG
B29K 105/00	(31) 102017122699	(31) 102019207775
(11) EP3792312	(32) 29.09.2017	(32) 28.05.2019
(21) EP19799879.2	(33) Germany	(33) Germany
(47) 13.09.2023	(51) B29C 70/32	(51) B29C 73/24
(87) JP2019018512	B29C 70/38	B64F 5/40
14.11.2019	B29C 70/56	B29C 73/10
(22) 09.05.2019	(11) EP3706988	(11) EP3887257
(54) RESIN COMPOSITION, KIT, METHOD	(21) EP18819233.0	(21) EP19821252.4
FOR MANUFACTURING RESIN	(47) 13.09.2023	(47) 13.09.2023
COMPOSITION, METHOD FOR	(87) US2018059611	(87) EP2019082450
MANUFACTURING FORMED ARTICLE,	16.05.2019	04.06.2020
AND FORMED ARTICLE	(22) 07.11.2018	(22) 25.11.2019
(73) GLOBAL POLYACETAL CO., LTD.	(54) COMPOSITE STRUCTURES, FORMING	(54) DISPLAY DEVICE AND METHOD FOR
(72) OKAMOTO, Fumihito	APPARATUSES AND RELATED	MONITORING THE STRUCTURAL
(31) 2018244713	SYSTEMS AND METHODS	INTEGRITY OF A REPAIR BOND
2018091151	(73) Northrop Grumman Systems Corporation	(73) Airbus Defence and Space GmbH
(32) 27.12.2018	(72) MADSEN, Christopher J.	(72) KÖRWIEN, Thomas
10.05.2018	HEALEY, John B.	MAIER, Anton
(33) Japan	OLSEN, Travis S.	KRUSE, Thomas
Japan	HOFFMAN, Ethan J.	HOLTMANNSPÖTTER, Jens
(51) B29C 65/18	STULP, Jason H.	(31) 102018129872
B01L 3/00	TUELLEL, Michael T.	(32) 27.11.2018
B29K 23/00	ROEBER, Wayne M.	(33) Germany
(11) EP3727805	BENSON, Vernon M.	(51) B29D 7/01
(21) EP18827046.6	(31) 201715807453	B29C 48/08
(47) 13.09.2023	(32) 08.11.2017	H05K 1/03
(87) EP2018085739	(33) United States of America	H05K 3/00
27.06.2019	(51) B29C 70/38	(11) EP3815869
(22) 19.12.2018	B29C 70/34	(21) EP19834878.1
(54) SEALING PRESS AND METHOD OF	B29C 64/245	(47) 13.09.2023
MAKING A FRANGIBLE SEAL IN A	(11) EP3727812	(87) JP2019026928
SAMPLE PROCESSING DEVICE	(21) EP18833060.9	16.01.2020
(73) F. Hoffmann-La Roche AG	(47) 13.09.2023	(22) 08.07.2019
(72) DENNISON, Allen C.	(87) EP2018086793	(54) METHOD FOR PRODUCING
SPENCER, Colby C.	27.06.2019	THERMOPLASTIC LIQUID-CRYSTAL
LYNCH, Jervis P.	(22) 21.12.2018	POLYMER FILM
(31) 201762607522 P	(54) A FIBER TAPE LAYING SYSTEM	(73) Denka Company Limited
(32) 19.12.2017	(73) Mubea Carbo Tech GmbH	(72) UCHIYAMA, Shun
(33) United States of America	(72) WEINZIERL, Martin	INODA, Ikuka
(51) B29C 65/56	PUTZHAMMER, Anton	(31) 2018130892
B29C 65/02	CREUZNACHER, Alexander	(32) 10.07.2018
B29C 65/08	WOLF, Jochen	(33) Japan
B29C 65/10	DUBRATZ, Markus	(51) B29D 11/00
B29C 65/14	(31) 11652018	B29C 33/04
B29C 65/16	16142017	G02B 3/08
(11) EP3332945	(32) 25.09.2018	B29C 33/30
(21) EP16203398.9	22.12.2017	B29C 39/38
(47) 13.09.2023	(33) Switzerland	B29C 39/42
(22) 12.12.2016	Switzerland	B29L 11/00
(54) HOT JOINT FASTENER	(51) B29C 73/16	(11) EP3632662
(73) Airbus Operations GmbH	(11) EP3976361	(21) EP18198573.0
(72) VICHNIAKOV, Alexei	(21) EP20721563.3	(47) 13.09.2023
(51) B29C 65/74	(47) 13.09.2023	(22) 04.10.2018
B29C 65/00	(87) EP2020061461	(54) DEVICES AND METHOD FOR
B65B 61/06	03.12.2020	PROVIDING LENSES FOR MOTOR
(11) EP3461621	(22) 24.04.2020	VEHICLE HEADLAMPS, FRESNEL
(21) EP18196571.6	(54) DISTRIBUTOR DEVICE FOR	LENSES FOR MOTOR VEHICLE
(47) 13.09.2023	INTRODUCING COMPRESSED AIR	HEADLIGHTS
(22) 25.09.2018	AND/OR SEALANT INTO A PNEUMATIC	(73) ZKW Group GmbH
	VEHICLE TYRE, AND USE OF A	(72) Schadenhofer, Peter

Hacker, Alexander	MANUFACTURE USING SPECIALIZED	(73) LM Wind Power A/S
Gürtl, Josef	RFID TAGS	(72) NIELSEN, Lars
Mandl, Bernhard	(73) FineLine Technologies	(31) 16150220
(51) B29D 28/00	(72) UIJLENBROEK, Jos	(32) 05.01.2016
B29B 15/12	SVOBODA, Jan	(33) European Patent Office (EPO)
B29B 15/14	(31) 201862776621 P	(51) B29L 31/14
B29C 70/22	(32) 07.12.2018	B29C 65/00
E04C 5/07	(33) United States of America	B29C 69/00
(11) EP3424690	(51) B29D 30/48	B01D 61/14
(21) EP17179409.2	(11) EP4112288	B01D 63/02
(47) 13.09.2023	(21) EP22174145.7	B01D 63/06
(22) 03.07.2017	(47) 13.09.2023	B01D 65/00
(54) METHOD AND DEVICE FOR	(22) 18.05.2022	B01D 61/18
PRODUCING A REINFORCEMENT	(54) PNEUMATIC TYRE AND METHOD FOR	B01D 69/04
GRID	MANUFACTURING THE SAME	B01D 69/08
(73) Solidian GmbH	(73) Sumitomo Rubber Industries, Ltd.	B29C 45/00
(72) BRUSKE, Johannes	(72) ISHIGAKI, Yuichi	B29C 65/18
LOHRMANN, Stefan	YAO, Masahiro	B29C 45/14
(51) B29D 30/00	MONJI, Mami	B29C 57/10
B29C 35/08	(31) 2021106890	(11) EP3380216
H05B 6/64	(32) 28.06.2021	(21) EP16809284.9
B29D 30/06	(33) Japan	(47) 13.09.2023
(11) EP4110599	(51) B29D 30/72	(87) EP2016001972
(21) EP21718494.4	B29D 30/08	01.06.2017
(47) 13.09.2023	B29D 30/00	(22) 23.11.2016
(87) CZ2021050023	B29D 30/52	(54) TUBULAR FILTER MEMBRANE
02.09.2021	(11) EP4015206	ELEMENT, AND METHOD FOR THE
(22) 24.02.2021	(21) EP21211682.6	PRODUCTION THEREOF
(54) AN APPARATUS FOR AND A METHOD	(47) 13.09.2023	(73) FrieslandCampina Nederland B.V.
OF MICROWAVE HEATING OF	(22) 01.12.2021	(72) AUFDERHEIDE, Kai
ROTATABLE ARTICLES, ESPECIALLY	(54) METHOD AND DEVICE FOR	VAN DRUTEN, Wiebe
GREEN TYRE BLANKS	PRODUCING AT LEAST TWO	OPPERS, Albert
(73) ROMILL s.r.o.	PROFILES FOR A VEHICLE TYRE	(31) 102015015159
(72) VOPÁLKA, Roman	(73) Continental Reifen Deutschland GmbH	(32) 25.11.2015
TERNOVOJ, Nikolaj	(72) Sharifi, Monir	(33) Germany
POLCER, Pavel	De Riva-Perez, Julian	(51) B30B 5/02
(31) 20200095	Xu, Chengcai	F16L 33/02
(32) 24.02.2020	(31) 102020216366	F15B 15/10
(33) Czech Republic	(32) 21.12.2020	B66F 3/35
(51) B29D 30/00	(33) Germany	F16L 55/115
B29D 30/02	(51) B29D 99/00	(11) EP3766680
(11) EP4015201	B29C 70/44	(21) EP20184953.6
(21) EP21212496.0	B29C 65/02	(47) 13.09.2023
(47) 13.09.2023	B29C 33/02	(22) 09.07.2020
(22) 06.12.2021	(11) EP3733391	(54) WORK STATION FOR A PACKING
(54) PROCESS FOR THE PRODUCTION OF	(21) EP20167801.8	MACHINE
A NON-PNEUMATIC TIRE	(47) 13.09.2023	(73) MULTIVAC Sepp Haggenmüller SE & Co.
(73) The Goodyear Tire & Rubber Company	(22) 02.04.2020	KG
(72) SPORTELLI, Francesco	(54) METHOD AND APPARATUS OF	(72) Mößnang, Konrad
SIFFER, Frederic Gerard Auguste	MANUFACTURING A STIFFENED FLAT	Guggenberger, Tobias
(31) 202063127556 P	COMPONENT MADE OF POLYMERIC	(31) 102019210728
(32) 18.12.2020	MATERIAL	(32) 19.07.2019
(33) United States of America	(73) Airbus Operations GmbH	(33) Germany
(51) B29D 30/06	(72) Jörn, Paul	(51) B30B 15/30
B29D 30/00	Hinz, Remo	G01B 7/06
B32B 27/38	(31) 102019108769	G01F 23/263
B60C 23/02	(32) 03.04.2019	B30B 11/08
B60C 23/04	(33) Germany	(11) EP3819112
G06K 19/077	(51) B29D 99/00	(21) EP20201517.8
H01Q 1/22	B29C 70/54	(47) 13.09.2023
(11) EP3890972	(11) EP3400133	(22) 13.10.2020
(21) EP19891881.5	(21) EP17700603.8	(54) DEVICE FOR CAPACITIVELY
(47) 13.09.2023	(47) 13.09.2023	MEASURING THE POWDER LEVEL
(87) US2019065130	(87) EP2017050089	IN A FILLING DEVICE OF A ROTARY
11.06.2020	13.07.2017	PRESS
(22) 09.12.2019	(22) 03.01.2017	(73) Fette Compacting GmbH
(54) KIT FOR MAINTAINING AUTOMATED	(54) METHOD OF MOLDING A SHELL PART	(72) Evers, Alexander
QUALITY CONTROL DURING TIRE	OF A WIND TURBINE BLADE	Walter, Nicolas

Kolbe, Sven	C04B 35/117	B32B 27/16
(31) 102019129793	C04B 35/563	B32B 27/18
(32) 05.11.2019	C04B 35/565	B32B 27/32
(33) Germany	C04B 35/628	B32B 29/00
(51) B31B 70/26	C04B 35/82	B32B 1/02
B31B 70/98	C04B 35/83	(11) EP3238936
B31B 155/00	(11) EP3733404	(21) EP15873108.3
B31B 160/10	(21) EP20172590.0	(47) 13.09.2023
(11) EP3166779	(47) 13.09.2023	(87) JP2015085893
(21) EP15736457.1	(22) 01.05.2020	30.06.2016
(47) 13.09.2023	(54) METHOD OF MANUFACTURING	(22) 22.12.2015
(87) EP2015065608	INTERNAL COOLING CIRCUITS FOR	(54) RESIN COMPOSITION FOR
14.01.2016	CMC'S	EXPANDABLE LAMINATE,
(22) 08.07.2015	(73) Raytheon Technologies Corporation	EXPANDABLE LAMINATE, METHOD
(54) STACK FORMED OF BAGS	(72) READ, Kathryn S.	FOR MANUFACTURING SAME, AND
(73) LEMO Maschinenbau GmbH	LAZUR, Andrew J.	EXPANDED CONVERTED PAPER AND
(72) SCHLARP, Bernd	(31) 201962843133 P	HEAT-INSULATING CONTAINER USING
(31) 102014213246	(32) 03.05.2019	SAME
(32) 08.07.2014	(33) United States of America	(73) Japan Polyethylene Corporation
(33) Germany	(51) B32B 21/02	(72) SASAKI Keiichi
(51) B32B 1/00	B27N 3/02	SAKAMOTO Shinji
B32B 3/12	B27N 3/04	(31) 2014259252
B32B 5/18	B27N 7/00	(32) 22.12.2014
B32B 15/04	(11) EP3421234	(33) Japan
B32B 15/20	(21) EP17755872.3	(51) B32B 27/30
B62D 29/04	(47) 13.09.2023	B32B 15/082
B62D 63/06	(87) ES2017070101	B65D 65/40
B62D 3/08	31.08.2017	F16L 59/06
B62D 63/08	(22) 23.02.2017	C23C 14/20
(11) EP3865379	(54) METHOD FOR THE PRODUCTION OF	(11) EP2818316
(21) EP21156990.0	MULTILAYER LAMINATED BOARDS	(21) EP13751356.0
(47) 13.09.2023	(73) Financiera Maderera, S.A.	(47) 13.09.2023
(22) 12.02.2021	(72) RECAMAN GONZALEZ, Santiago	(87) JP2013054138
(54) PLATE-SHAPED STRUCTURAL	(31) PCT/ES2016/070114	29.08.2013
ELEMENT AND RUNNING GEAR FOR	(32) 23.02.2016	(22) 20.02.2013
A LEISURE VEHICLE WITH SUCH A	(33) World Intellectual Property Office (WIPO)	(54) POLYVINYL ALCOHOL VAPOR-
STRUCTURAL ELEMENT	(51) B32B 27/08	DEPOSITED FILM
(73) Erwin Hymer Group SE	B32B 27/18	(73) Kuraray Co., Ltd.
(72) Buck, Rainer	B32B 27/30	(72) NONAKA Yasuhiro
Metzler, Marcus	B32B 27/32	KAWAI Hiroshi
Dorn, Günter	B32B 27/36	YAMAKOSHI Satoshi
(31) 102020103543	B32B 27/40	(31) 2012034073
(32) 12.02.2020	B32B 3/30	(32) 20.02.2012
(33) Germany	B32B 7/02	(33) Japan
(51) B32B 17/10	B32B 27/20	(51) B32B 27/36
C03C 27/12	B32B 27/28	B29B 17/00
C08K 3/22	(11) EP3436263	B32B 7/027
C08K 5/3417	(21) EP17717577.5	B32B 27/08
C08L 101/00	(47) 13.09.2023	B32B 27/16
C08L 29/14	(87) US2017024225	C08G 63/183
(11) EP3409466	05.10.2017	C08J 11/04
(21) EP18182830.2	(22) 27.03.2017	(11) EP3939787
(47) 13.09.2023	(54) MULTILAYER FLUOROPOLYMER	(21) EP21165505.5
(22) 23.02.2012	FILMS	(47) 13.09.2023
(54) INTERMEDIATE FILM FOR LAMINATED	(73) 3M Innovative Properties Company	(22) 29.03.2021
GLASSES, AND LAMINATED GLASS	(72) HEBRINK, Timothy J.	(54) HEAT SEALABLE POLYESTER FILM
(73) Sekisui Chemical Co., Ltd.	RICHELIE, Joseph A.	AND METHOD FOR MANUFACTURING
(72) KITANO, Hirofumi	YOUNG, Jacob D.	THE SAME
FUKATANI, Juichi	(31) 201662316965 P	(73) NAN YA PLASTICS CORPORATION
II, Daizou	(32) 01.04.2016	(72) YANG, Wen-Cheng
OKABAYASHI, Takazumi	(33) United States of America	LIAO, Te-Chao
TSUNODA, Ryuta	(51) B32B 27/10	HSIAO, Chia-Yen
(31) 2011037629	B65D 65/40	YUAN, Ching-Yao
(32) 23.02.2011	B65D 81/38	(31) 109123834
(33) Japan	C08J 9/12	(32) 15.07.2020
(51) B32B 18/00	C08L 23/08	(33) Taiwan, Chinese Taipei
C04B 37/00	B32B 5/20	(51) B32B 37/12
F01D 5/28	B32B 5/22	B29C 63/00

B29C 63/02	(31) 102019218775	28.04.2016
B32B 38/18	(32) 03.12.2019	28.04.2016
B32B 37/00	(33) Germany	(33) Japan
H04M 1/02	(51) B41C 1/05	Japan
B29L 31/34	(11) EP4031374	Japan
B32B 38/10	(21) EP20736258.3	Japan
(11) EP3797993	(47) 13.09.2023	(51) B41J 2/14
(21) EP20156950.6	(87) EP2020067145	(11) EP3854594
(47) 13.09.2023	25.03.2021	(21) EP21152391.5
(22) 12.02.2020	(22) 19.06.2020	(47) 13.09.2023
(54) METHOD OF ATTACHING FLEXIBLE SCREEN TO COVER PLATE	(54) PRINTING PLATE AND POLYMERIC COATING MATERIAL FOR SAME	(22) 19.01.2021
(73) Beijing Xiaomi Mobile Software Co., Ltd.	(73) Maschinenfabrik Kaspar Walter GmbH & Co. KG	(54) LIQUID DISCHARGE HEAD AND LIQUID DISCHARGE MODULE
(72) ZHAO, Ming	Leibniz-Institut für Oberflächenmodifizierung e.V.	(73) CANON KABUSHIKI KAISHA
HAN, Gaocai	(72) HELMSTEDT, Ulrike	(72) NAKAGAWA, Yoshiyuki
ZHU, Heming	FREYER, Annette	(31) 2020011242
(31) 201910907613	HERRNBERGER, Helmut	(32) 27.01.2020
(32) 24.09.2019	FECHNER, Oliver	(33) Japan
(33) China	GSCHOSSMANN, Christoph	(51) B41J 2/175
(51) B32B 38/00	(31) 102019124814	(11) EP3815910
B29B 13/08	(32) 16.09.2019	(21) EP19861923.1
B29C 63/02	(33) Germany	(47) 13.09.2023
B29C 55/06	(51) B41F 17/00	(87) CN2019090115
B65B 25/04	B41J 3/407	26.03.2020
B32B 27/08	B65B 43/46	(22) 05.06.2019
(11) EP3710248	(11) EP3406445	(54) PRINTING CONSUMABLE AND METHOD OF USING THE PRINTING CONSUMABLE
(21) EP18879328.5	(21) EP18162984.1	(73) Geehy Microelectronics Inc.
(47) 13.09.2023	(47) 13.09.2023	(72) GONG, Ming
(87) US2018061581	(22) 26.04.2013	(31) 201910295986
23.05.2019	(54) SYSTEM FOR PRINTING ON A FLEXIBLE BODY	201811083042
(22) 16.11.2018	(73) Illinois Tool Works Inc.	(32) 12.04.2019
(54) METHOD AND SYSTEMS FOR APPLYING STRETCH FILMS/ PLASTIC FILMS AT A CONTROLLED TEMPERATURE AND/OR TRANSFER OF ELECTROSTATIC CHARGE	(72) OLEJNICZAK, Gregory B.	17.09.2018
(73) RLMB Group, LLC	PISCITELLO, Marc C.	(33) China
(72) BOWDEN, R. Craig	SOBASZEK, Christopher J.	China
(31) 201816192761	VLCEK, Graham P.	(51) B41J 2/175
201715815208	O'NEIL, Sean M.	(11) EP3774353
(32) 15.11.2018	DELL'AQUILA, Peter P.	(21) EP18718005.4
16.11.2017	WASZKOWIAK, Steve	(47) 13.09.2023
(33) United States of America	(31) 201213473208	(87) JP2018013186
United States of America	201261639601 P	03.10.2019
(51) B32B 38/18	(32) 16.05.2012	(22) 29.03.2018
B29C 51/14	27.04.2012	(54) IMAGE RECORDING APPARATUS
B32B 37/04	(33) United States of America	(73) Brother Kogyo Kabushiki Kaisha
B29C 35/02	United States of America	(72) HORADE, Kenta
B29C 70/08	(51) B41J 2/01	(51) B41J 2/175
B29D 24/00	B41J 3/407	B41J 2/18
B32B 1/00	(11) EP3450172	(11) EP3878655
B32B 3/12	(21) EP17789152.0	(21) EP20382189.7
B32B 5/18	(47) 13.09.2023	(47) 13.09.2023
B32B 27/12	(87) JP2017012346	(22) 13.03.2020
(11) EP4069513	02.11.2017	(54) SYSTEM FOR REGULATING INK INJECTOR SUPPLY IN A PRINT HEAD AND PRINTING EQUIPMENT INCLUDING SAME
(21) EP20819641.0	(22) 27.03.2017	(73) UNITED BARCODE SYSTEMS, S.L.
(47) 13.09.2023	(54) PRINTING DEVICE	(72) BONET LOZANO, Antoni Maria
(87) EP2020083514	(73) ALTEMIRA Co., Ltd.	(51) B41J 29/393
10.06.2021	(72) KIMURA, Nobuhiko	B41J 2/045
(22) 26.11.2020	OJIMA, Shinichi	B41J 2/21
(54) METHOD FOR PRODUCING A MOLDABLE THERMOPLASTIC COMPOSITE STRUCTURE AND CORRESPONDING DEVICE	IKEDA, Kazunori	B41J 3/407
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	SUWA, Asumi	B41J 11/42
(72) GLÄSSER, Thomas	FUJINUMA, Kenji	B05B 13/04
STACHE, Peter	(31) 2017014600	B41J 25/00
	2017014594	B41J 25/316
	2016090965	B05B 12/12
	2016090964	
	(32) 30.01.2017	
	30.01.2017	



B64F 5/10	(31) 201862653083 P	C09D 11/40
(11) EP3860860	(32) 05.04.2018	B41M 7/00
(21) EP19868442.5	(33) United States of America	B41J 11/00
(47) 13.09.2023	(51) B41M 3/00	(11) EP3888927
(87) US2019054491	B41M 5/52	(21) EP20167275.5
09.04.2020	C09D 11/322	(47) 13.09.2023
(22) 03.10.2019	C09D 11/40	(22) 31.03.2020
(54) PRINTING USING AN EXTERNALLY GENERATED REFERENCE	C09D 5/24	(54) METHOD FOR APPLYING AN IMAGE ONTO A RECORDING MEDIUM
(73) SOUTHWEST RESEARCH INSTITUTE	C09D 11/52	(73) Canon Production Printing Holding B.V.
(72) FLANNIGAN, William C.	(11) EP3628504	(72) VAN DIJKMAN, Thomas F.
BARTLETT, Glynn R.	(21) EP19197479.9	TURKENBURG, Daniël H.
BRESSLER, Cody E.	(47) 13.09.2023	(51) B41M 5/50
(31) 201816152780	(22) 16.09.2019	B41M 5/52
(32) 05.10.2018	(54) RECORDING METHOD, RECORDING APPARATUS AND RECORDED MATTER	B41M 5/00
(33) United States of America	(73) CANON KABUSHIKI KAISHA	(11) EP3693180
(51) B41J 35/28	(72) TANAKA, Takatoshi	(21) EP19158475.4
B41J 2/325	IIDA, Kenichi	(47) 13.09.2023
B41J 17/18	ARAKI, Kazuhiko	(22) 21.02.2019
B41J 17/24	SHIBA, Tetsufumi	(54) METHOD FOR MANUFACTURING A DECORATIVE FOIL AND A PANEL COMPRISING SUCH FOIL
B41J 17/32	(31) 2019153143	(73) Flooring Industries Limited, SARL
B41J 29/13	2018184608	(72) CLEMENT, Benjamin
B41J 29/02	(32) 23.08.2019	LEDEGEN, Sam
B41J 15/04	28.09.2018	(31) 201962801314 P
B41J 35/16	(33) Japan	(32) 05.02.2019
B41J 11/00	Japan	(33) United States of America
(11) EP3804999	(51) B41M 3/14	(51) B41M 5/50
(21) EP18914943.8	G07D 7/00	B41M 5/52
(47) 13.09.2023	(11) EP2760674	B41M 5/00
(87) JP2018035519	(21) EP12794516.0	(11) EP3921178
05.12.2019	(47) 13.09.2023	(21) EP20702925.7
(22) 25.09.2018	(87) IT2012000295	(47) 13.09.2023
(54) PRINTER	04.04.2013	(87) IB2020050724
(73) Sato Holdings Kabushiki Kaisha	(22) 26.09.2012	13.08.2020
(72) SHIOYA, Takashi	(54) METHOD AND SYSTEM FOR ANTIFORGERY MARKING OF PRINTED PRODUCTS	(22) 30.01.2020
KAJIKAWA, Masaaki	(73) Viditrust S.r.l.	(54) METHOD FOR MANUFACTURING A DECORATIVE FOIL AND A PANEL COMPRISING SUCH FOIL
(31) 2018106519	(72) CAPOBIANCO, Luca	(73) Flooring Industries Limited, SARL
(32) 01.06.2018	CANCELLI, Giacomo	(72) CLEMENT, Benjamin
(33) Japan	BARNI, Mauro	LEDEGEN, Sam
(51) B41M 1/04	(31) FI20110207	(31) 201962801314 P
B41M 1/30	(32) 27.09.2011	19158475
(11) EP3424738	(33) Italy	(32) 05.02.2019
(21) EP17179248.4	(51) B41M 5/00	21.02.2019
(47) 13.09.2023	B41M 7/00	(33) United States of America
(22) 03.07.2017	B44C 5/04	European Patent Office (EPO)
(54) PROCESS FOR PRINTING INK TO PROVIDE HIGH OPACITY SUBSTRATE	(11) EP3694724	(51) B41N 1/12
(73) The Procter & Gamble Company	(21) EP18782071.7	G03F 7/20
(72) KOHLWEYER, Christian	(47) 13.09.2023	(11) EP3790741
BLUM, Thorsten	(87) EP2018077258	(21) EP19758997.1
BAKER, Paul Edmund	18.04.2019	(47) 13.09.2023
(51) B41M 3/00	(22) 08.10.2018	(87) EP2019073200
B41M 5/00	(54) INKJET PRINTING METHODS FOR MANUFACTURING DECORATIVE LAMINATE PANELS	05.03.2020
B41M 7/00	(73) AGFA NV	(22) 30.08.2019
C09D 11/101	(72) MEEUS, Pascal	(54) METHOD FOR PREPARING A FLEXOGRAPHIC PRINTING PLATE COMPRISING VISIBLE AND NON- PRINTABLE INFORMATION
C09D 11/322	CLOOTS, Tom	(73) Esko-Graphics Imaging GmbH
C09D 11/40	(31) 17195847	(72) BARBIER, Olivier
(11) EP3775064	(32) 11.10.2017	SCHMITT, Jonathan
(21) EP19782424.6	(33) European Patent Office (EPO)	(31) 1857875
(47) 13.09.2023	(51) B41M 5/00	(32) 31.08.2018
(87) US2019025766	C09D 11/30	(33) France
10.10.2019	C09D 11/54	(51) B42D 25/28
(22) 04.04.2019	C09D 11/106	
(54) IN-LINE PRIMER PRINTING METHODS	C09D 11/322	
(73) Kao Corporation		
(72) CONTRACTOR, Muslim		
BUCHANAN, Stephen		
CUMMINGS, Stephen		

B42D 25/36	C08K 3/40	United States of America
B42D 25/324	(11) EP2903836	United States of America
B42D 25/328	(21) EP13780006.6	United States of America
B42D 25/455	(47) 13.09.2023	United States of America
A61J 1/03	(87) US2013063392	United States of America
B29C 65/02	10.04.2014	United States of America
(11) EP3927559	(22) 04.10.2013	United States of America
(21) EP20777121.3	(54) THERMOFORMABLE MICROSPHERE	United States of America
(47) 13.09.2023	ARTICLES	United States of America
(87) US2020034306	(73) 3M Innovative Properties Company	<hr/>
01.10.2020	(72) WALKER, Christopher B. Jr.	(51) B60B 25/00
(22) 22.05.2020	RULE, Joseph D.	B60B 25/22
(54) METHOD OF PROTECTING	KRISHNAN, Vivek	(11) EP3946968
SECURITY ELEMENTS FROM HEAT	CLARK, John C.	(21) EP20721355.4
DEGRADATION DURING A HEAT-	MCMAN, Steven J.	(47) 13.09.2023
SEALING PROCESS	ALABI, Toheeb B.	(87) US2020026422
(73) Hazen Paper Company	HO, Charlie C.	08.10.2020
(72) HAZEN, John	MARX, Ryan E.	(22) 02.04.2020
HOAGUE, Larry	KUGEL, Alexander J.	(54) BOLT TOGETHER WHEEL WITH
<hr/>		DEFLATION SYSTEM
(51) B42D 25/324	(31) 201361791918 P	(73) OTR Wheel Engineering, Inc.
B42D 25/351	201261709366 P	(72) HENSEL, Leonard Austin
B42D 25/36	(32) 15.03.2013	(31) 201962829692 P
B42D 25/373	04.10.2012	(32) 05.04.2019
B42D 25/378	(33) United States of America	(33) United States of America
B42D 25/425	United States of America	<hr/>
B42D 25/44	(51) B44F 1/08	(51) B60B 33/00
B42D 25/445	G02B 1/06	F16D 49/10
(11) EP4067103	G02B 5/26	(11) EP4146484
(21) EP22020006.7	G02B 5/28	(21) EP21735145.1
(47) 13.09.2023	A41D 27/08	(47) 13.09.2023
(22) 12.01.2022	A43B 1/00	(87) CZ2021000017
(54) METHOD OF MANUFACTURING AN	A43B 3/00	11.11.2021
OPTICALLY VARIABLE SECURITY	A63B 43/06	(22) 04.05.2021
ELEMENT	(11) EP4117932	(54) TWO-WAY BAND BRAKE FOR A
(73) Giesecke+Devrient Currency Technology	(21) EP21734659.2	CASTER
GmbH	(47) 13.09.2023	(73) LINET spol. s r.o.
(72) Hoffmüller, Winfried	(87) US2021034776	(72) KOLÁR , Vladimír
Sattler, Tobias	02.12.2021	(31) 20200250
Rauch, Andreas	(22) 28.05.2021	(32) 06.05.2020
(31) 102021001589	(54) STRUCTURALLY-COLORED ARTICLES	(33) Czech Republic
(32) 25.03.2021	AND METHODS FOR MAKING AND	<hr/>
(33) Germany	USING STRUCTURALLY-COLORED	(51) B60C 1/00
<hr/>	ARTICLES	B60C 11/00
(51) B42D 25/328	(73) Nike Innovate C.V.	B60C 11/03
B42D 25/435	(72) GANTZ, Jeremy	B60C 11/12
G02B 5/18	KOVEL, Kim	B60C 13/00
G09F 3/02	WANG, Yuanmin	(11) EP4008566
B42D 25/324	(31) 202063052143 P	(21) EP21208279.6
(11) EP3851291	202063052135 P	(47) 13.09.2023
(21) EP21161980.4	202063032090 P	(22) 15.11.2021
(47) 13.09.2023	202063032084 P	(54) PNEUMATIC TIRE
(22) 25.05.2018	202063032081 P	(73) Sumitomo Rubber Industries, Ltd.
(54) INFORMATION RECORDING MEDIUM,	202063032076 P	(72) TOMISAKI, Yukari
LABEL, CARD AND METHOD OF	202063032067 P	KIDA, Yogun
AUTHENTICATION	202063032064 P	HORIGUCHI, Takuya
(73) Toppan Printing Co., Ltd.	202063032061 P	(31) 2020201915
(72) Ide, Hidetaka	202063032052 P	(32) 04.12.2020
Minamikawa, Naoki	(32) 15.07.2020	(33) Japan
(31) 2017103231	15.07.2020	<hr/>
(32) 25.05.2017	29.05.2020	(51) B60C 1/00
(33) Japan	29.05.2020	B60C 11/00
<hr/>	29.05.2020	B60C 11/18
(51) B44C 5/04	29.05.2020	B60C 11/14
C09D 7/00	29.05.2020	B60C 9/00
C09D 7/40	29.05.2020	(11) EP3996939
C09D 183/04	29.05.2020	(21) EP19828934.0
C09D 7/61	29.05.2020	(47) 13.09.2023
C09D 7/65	29.05.2020	(87) US2019063609
C08K 3/08	29.05.2020	04.06.2020
C08K 3/22	(33) United States of America	(22) 27.11.2019

(54) MATERIAL WITH ENHANCED SLIDING FRICTION	Park, Chulhee Kim, Hansol	(31) 2021052198 (32) 25.03.2021 (33) Japan
(73) Compagnie Générale des Etablissements Michelin	Park, Hanki Lee, Hyungjae	(51) B60C 11/00
Lehigh University	(31) 20180096497	B60C 11/13
Cornell University	(32) 20.08.2018	B60C 19/08
(72) MOYLE, Nichole	(33) Korea (Republic)	B60C 11/03
BREMOND, Florian	(51) B60C 1/00	(11) EP3778264
HUI, Chung Yuen	C08L 7/00	(21) EP20189460.7
WU, Haibin	C08L 9/00	(47) 13.09.2023
JAGOTA, Anand	C08L 15/00	(22) 04.08.2020
KHRIPIN, Constantine	C08K 3/36	(54) A TIRE TREAD AND A TIRE COMPRISING A TREAD
(31) 201862774191 P	C08K 9/06	(73) The Goodyear Tire & Rubber Company
201862774081 P	C08K 3/04	(72) SCHWEITZER, Claude
(32) 01.12.2018	C08L 91/00	THOMAS, Jean-Louis Marie Felicien
30.11.2018	(11) EP3792077	AHRENS, Bodo
(33) United States of America	(21) EP20193542.6	TALBOT, William Alain Francis Ghislain
United States of America	(47) 13.09.2023	DEHEZ, Germain
(51) B60C 1/00	(22) 31.08.2020	COX, Hubert Anna Johannes
B60C 11/00	(54) RUBBER COMPOSITION AND PNEUMATIC TIRE	(31) 201962887168 P
C08L 21/00	(73) The Goodyear Tire & Rubber Company	(32) 15.08.2019
(11) EP3950381	(72) RYBA, Jennifer Lyn	(33) United States of America
(21) EP21184066.5	YOUNG, Philip Jordan	(51) B60C 11/03
(47) 13.09.2023	(31) 201916568313	(11) EP3890994
(22) 06.07.2021	(32) 12.09.2019	(21) EP19800936.7
(54) TIRE	(33) United States of America	(47) 13.09.2023
(73) SUMITOMO RUBBER INDUSTRIES LIMITED	(51) B60C 1/00	(87) EP2019078959
(72) NAKATANI, Masako	C08L 9/06	11.06.2020
(31) 2020198505	C08K 5/103	(22) 24.10.2019
2020132684	C08L 9/00	(54) TREAD PROFILE OF A VEHICLE TYRE
(32) 30.11.2020	C08L 7/00	(73) Continental Reifen Deutschland GmbH
04.08.2020	C08K 3/36	(72) BEHR, Ulrich
(33) Japan	C08K 3/04	(31) 102018221192
Japan	C08L 25/16	(32) 07.12.2018
(51) B60C 1/00	C08L 65/00	(33) Germany
C08K 5/098	C08L 45/02	(51) B60C 11/03
C08K 5/14	C08L 47/00	B60C 11/04
C08K 5/372	C08L 57/02	B60C 11/13
C08L 53/02	C08L 93/04	B60C 11/12
C08K 3/04	(11) EP4000956	(11) EP4061646
C08L 23/08	(21) EP21207392.8	(21) EP20792367.3
(11) EP3912831	(47) 13.09.2023	(47) 13.09.2023
(21) EP20752088.3	(22) 10.11.2021	(87) EP2020078739
(47) 13.09.2023	(54) RUBBER COMPOSITION AND TIRE CONTAINING VEGETABLE OIL EXTENDED STYRENE/BUTADIENE ELASTOMER AND RESIN	(22) 13.10.2020
(87) JP2020003369	(73) The Goodyear Tire & Rubber Company	(54) HEAVY TRUCK TYRE
13.08.2020	(72) GERSMAN, Michael Lawrence	(73) Continental Reifen Deutschland GmbH
(22) 30.01.2020	ISITMAN, Nihat Ali	(72) SCHWENKE, Andreas
(54) RUBBER COMPOSITION AND TIRE	YOUNG, Philip Jordan	KRISTEN, Florian
(73) Sumitomo Rubber Industries, Ltd.	(31) 202017095969	YEO, Chun Yi
(72) KITAO, Ayaka	(32) 12.11.2020	ROTHER, Helge
YOKOYAMA, Yuka	(33) United States of America	(31) 102019217940
SATO, Daisuke	(51) B60C 9/04	(32) 21.11.2019
(31) 2019018870	B60C 9/08	(33) Germany
(32) 05.02.2019	B60C 9/02	(51) B60C 11/03
(33) Japan	B60C 9/13	B60C 11/12
(51) B60C 1/00	B60C 9/00	(11) EP4054864
C08L 7/00	(11) EP4063145	(21) EP20819814.3
(11) EP3613610	(21) EP22160067.9	(47) 13.09.2023
(21) EP19190347.5	(47) 13.09.2023	(87) FR2020052027
(47) 13.09.2023	(22) 03.03.2022	14.05.2021
(22) 06.08.2019	(54) PNEUMATIC TIRE	(22) 06.11.2020
(54) RUBBER COMPOSITION FOR TIRE TREAD AND TIRE MANUFACTURED BY USING THE SAME	(73) Sumitomo Rubber Industries, Ltd.	(54) TIRE COMPRISING A TREAD
(73) HANKOOK TIRE & TECHNOLOGY CO., LTD	(72) TOSHIMA, You	(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN
(72) Jung, Jaehyun	NOBUKUNI, Shingo	(72) BOISDON, Bertrand
		LABROUSSE, Jerome

VANTAL, Marie-Hélène	(72) Lacayo-Pineda, Jorge	H02K 7/20
(31) 1912451	(31) 102019208251	B60H 1/32
(32) 06.11.2019	(32) 06.06.2019	H02K 1/276
(33) France	(33) Germany	(11) EP3170688
(51) B60C 11/03	(51) B60D 1/06	(21) EP16198587.4
B60C 11/12	B60D 1/64	(47) 13.09.2023
(11) EP4054863	H01R 13/506	(22) 14.11.2016
(21) EP20819813.5	(11) EP3819138	(54) ASSEMBLY COMPRISING A
(47) 13.09.2023	(21) EP20205960.6	GENERATOR AND ELECTRIC
(87) FR2020052019	(47) 13.09.2023	MOTORS, FOR AN AIR-CONDITIONING
14.05.2021	(22) 05.11.2020	OR REFRIGERATION SYSTEM OF A
(22) 06.11.2020	(54) BUILT-IN UNIT	VEHICLE
(54) TIRE COMPRISING A TREAD	(73) ACPS Automotive GmbH	(73) Moteurs Leroy-Somer
(73) COMPAGNIE GENERALE DES	(72) König, Ferdinand	(72) GIRAUD, Régis
ETABLISSEMENTS MICHELIN	(31) 102019130312	(31) 1561216
(72) BOISDON, Bertrand	(32) 11.11.2019	(32) 23.11.2015
LABROUSSE, Jerome	(33) Germany	(33) France
VANTAL, Marie-Hélène	(51) B60D 1/66	(51) B60H 1/34
(31) 1912461	(11) EP4011656	(11) EP4046836
(32) 06.11.2019	(21) EP20213082.9	(21) EP22155146.8
(33) France	(47) 13.09.2023	(47) 13.09.2023
(51) B60C 11/14	(22) 10.12.2020	(22) 04.02.2022
(11) EP3894238	(54) A CONTROL SYSTEM AND METHOD	(54) AIR DIFFUSER FOR A VEHICLE
(21) EP19800931.8	FOR A TRAILER OR DOLLY	(73) Seat, S.A.
(47) 13.09.2023	(73) VOLVO TRUCK CORPORATION	(72) JUAREZ ENGUIANOS, Antonio
(87) EP2019078627	(72) DERAGÄRDEN, Hans	PRADAS CAULIN, Angel
18.06.2020	(51) B60H 1/00	DEL CAMPO MELGAREJO, Luis
(22) 22.10.2019	(11) EP3868584	(31) 202130095
(54) SPIKE AND PNEUMATIC VEHICLE	(21) EP20159018.9	(32) 08.02.2021
TYRE	(47) 13.09.2023	(33) Spain
(73) Continental Reifen Deutschland GmbH	(22) 24.02.2020	(51) B60J 1/00
(72) VOIGES, Kristin	(54) VEHICLE COMPARTMENT AIR	B60J 1/02
WEINREICH, Hajo	REPLACEMENT	C03C 27/12
(31) 102018221587	(73) Ningbo Geely Automobile Research &	G02B 1/118
(32) 13.12.2018	Development Co. Ltd.	B32B 17/10
(33) Germany	Zhejiang Geely Holding Group Co., Ltd.	G02B 27/01
(51) B60C 15/06	(72) SETTERBERG, Johan	(11) EP3694735
B60C 15/024	PIHLSGÄRD, Måns	(21) EP18866284.5
(11) EP3691920	LINDBERG NILSSON, Erik	(47) 13.09.2023
(21) EP18804362.4	(51) B60H 1/00	(87) US2018054959
(47) 13.09.2023	B60W 50/00	18.04.2019
(87) FR2018052394	B60W 20/12	(22) 09.10.2018
11.04.2019	B60W 20/11	(54) HEAD-UP DISPLAY WITH IMPROVED
(22) 28.09.2018	B60W 20/13	ANTI-REFLECTION FUNCTIONAL
(54) TYRE IN WHICH THE BEAD REGION	B60W 20/16	COATING ON WINDSHIELD
HAS SIPES	B60W 20/20	(73) Central Glass Co., Ltd.
(73) Compagnie Générale des	B60W 30/18	(72) BARD, Michael
Etablissements Michelin	B60W 40/04	HASE, Hiromi
(72) LICENSE, William	B60W 10/26	(31) 201862621823 P
BABAUD, Jacques	B60W 10/04	201762570490 P
(31) 1759166	B60W 10/06	(32) 25.01.2018
(32) 02.10.2017	B60W 10/08	10.10.2017
(33) France	G01C 21/34	(33) United States of America
(51) B60C 25/00	(11) EP3653458	United States of America
G01B 11/02	(21) EP19208823.5	(51) B60J 5/04
G01S 17/88	(47) 13.09.2023	E05B 79/04
G01M 17/02	(22) 13.11.2019	(11) EP3699006
G01S 13/88	(54) CONTROL DEVICE FOR HYBRID	(21) EP20158629.4
(11) EP3748329	VEHICLE, CONTROL METHOD FOR	(47) 13.09.2023
(21) EP20175737.4	HYBRID VEHICLE, AND RECORDING	(22) 20.02.2020
(47) 13.09.2023	MEDIUM	(54) COMPRESSIBLE LATCH BRACKET
(22) 20.05.2020	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	(73) Brose Schliesssysteme GmbH & Co. KG
(54) METHOD FOR INSPECTING	(72) IZUOKA, Daisuke	(72) McGUIRE, Deon
TECHNICAL RUBBER ITEMS WITH	(31) 2018215997	Karges, Oliver
A REINFORCEMENT LAYER AND	(32) 16.11.2018	(31) 201916280438
DEVICE FOR CARRYING OUT THE	(33) Japan	(32) 20.02.2019
METHOD AND USES OF THE DEVICE	(51) B60H 1/00	(33) United States of America
(73) Continental Reifen Deutschland GmbH		(51) B60J 7/02

B62D 25/06	(47) 13.09.2023	(87) JP2020005976
(11) EP3932710	(87) FR2018051846	29.10.2020
(21) EP21181736.6	24.01.2019	(22) 17.02.2020
(47) 13.09.2023	(22) 19.07.2018	(54) STRADDLED VEHICLE
(22) 25.06.2021	(54) GLAZING UNIT WITH SLIDING	(73) Yamaha Hatsudoki Kabushiki Kaisha
(54) UPPER VEHICLE-BODY STRUCTURE	GROOVE AND METHOD FOR	(72) MAKITA, Naoki
FOR VEHICLE	PRODUCING THE GLAZING UNIT	SATO, Hayatoshi
(73) MAZDA MOTOR CORPORATION	(73) SAINT-GOBAIN GLASS FRANCE	TORIGOSHI, Masaki
(72) Shigyou, Yasuyuki	(72) DASSONVILLE, Camille	KUROIWA, Makoto
Kiyoshita, Daisuke	CLASSEAU, Maxime	TAJIMA, Naoto
Matsuura, Takanori	(31) 1756845	(31) 2019082884
(31) 2020114227	(32) 19.07.2017	(32) 24.04.2019
(32) 01.07.2020	(33) France	(33) Japan
(33) Japan	(51) B60K 1/00	(51) B60K 35/00
(51) B60J 7/16	(11) EP4070977	G01C 21/36
B60H 1/24	(21) EP22156267.1	B60J 1/02
B60J 7/043	(47) 13.09.2023	G02B 27/01
B60H 1/26	(22) 11.02.2022	G09G 5/00
(11) EP3699007	(54) WHEEL UNIT WITH DISENGAGEABLE	G09G 5/36
(21) EP18867578.9	DRIVE FOR AN ELECTRIC VEHICLE,	(11) EP3888965
(47) 13.09.2023	HUB UNIT FOR THIS WHEEL UNIT,	(21) EP19889683.9
(87) CN2018109748	AND MOUNTING METHOD	(47) 13.09.2023
25.04.2019	(73) FCA Italy S.p.A.	(87) JP2019042583
(22) 11.10.2018	(72) BADINO, Mr. Renato	04.06.2020
(54) VEHICLE SUNROOF SYSTEM,	(31) 202100008579	(22) 30.10.2019
VEHICLE HAVING SAME, AND	(32) 07.04.2021	(54) HEAD-UP DISPLAY, VEHICLE DISPLAY
VEHICLE CONTROL METHOD	(33) Italy	SYSTEM, AND VEHICLE DISPLAY
(73) NIO (Anhui) Holding Co., Ltd.	(51) B60K 1/00	METHOD
(72) CHEN, Liang	B60K 11/02	(73) KOITO MANUFACTURING CO., LTD.
(31) 201710965906	(11) EP3815945	(72) MURATA, Kouhei
(32) 17.10.2017	(21) EP20204394.9	TOYOSHIMA, Takanobu
(33) China	(47) 13.09.2023	SATO, Noriko
(51) B60J 10/273	(22) 28.10.2020	(31) 2018225178
(11) EP3615363	(54) COMPACT POWERTRAIN WITH AN	2018225177
(21) EP18724976.8	ELECTRIC MOTOR	2018225176
(47) 13.09.2023	(73) BRUSA Elektronik AG	2018225175
(87) FR2018051050	(72) KRAUSE, Axel	2018225174
01.11.2018	HALTNER, Pascal	2018225173
(22) 25.04.2018	ISLINGER, Simon	(32) 30.11.2018
(54) SEALING MODULE FOR A MOTOR	IVANCIC, Nicola	30.11.2018
VEHICLE AND ITS ASSEMBLY	MÜLLER, Andreas	30.11.2018
(73) Hutchinson	BREU, Martin	30.11.2018
(72) BLOTTIAU, Olivier	BÖHLER, Lukas	30.11.2018
SKRABURSKI, Eddy	ZEGULA, Konrad	30.11.2018
MCDONALD, Robert	(31) 19206594	(33) Japan
TALLENT, Jack	(32) 31.10.2019	Japan
(31) 1753558	(33) European Patent Office (EPO)	Japan
(32) 25.04.2017	(51) B60K 7/00	Japan
(33) France	F16H 3/00	Japan
(51) B60J 10/777	F16H 3/66	Japan
(11) EP3569431	(11) EP3815947	(51) B60L 3/00
(21) EP18739124.8	(21) EP20204026.7	H02J 50/10
(47) 13.09.2023	(47) 13.09.2023	G01R 31/36
(87) JP2018000455	(22) 27.10.2020	(11) EP3408130
19.07.2018	(54) DRIVE WHEEL WITH EPICYCLIC GEAR	(21) EP17701507.0
(22) 11.01.2018	(73) Engines Engineering S.r.l.	(47) 13.09.2023
(54) GLASS PLATE MODULE	(72) TROZZI, Leonardo	(87) EP2017051675
(73) Nippon Sheet Glass Company, Limited	(31) 201900020144	03.08.2017
(72) SAKAI, Tsuneaki	(32) 31.10.2019	(22) 26.01.2017
MATSUSHITA, Yoshimitsu	(33) Italy	(54) ARRANGEMENT WITH BATTERY
(31) 2017002855	(51) B60K 11/04	SYSTEM FOR PROVIDING ELECTRIC
(32) 11.01.2017	F02B 29/04	ENERGY TO A VEHICLE
(33) Japan	F02B 61/02	(73) ALSTOM Holdings
(51) B60J 10/78	F02B 67/10	(72) MÜLLER, Rolf
B60J 10/76	F02B 75/20	(31) 201601649
B60R 13/04	(11) EP3950482	(32) 29.01.2016
(11) EP3655271	(21) EP20795767.1	(33) United Kingdom
(21) EP18762360.8	(47) 13.09.2023	(51) B60L 5/18

B60L 5/26	SCOOTERS AND THE LIKE AND	(47) 13.09.2023
B60L 5/20	METHOD WITH THIS SYSTEM	(87) US2019061922
B60L 5/32	(73) HB Reavis Germany GmbH	22.05.2020
(11) EP3782842	(72) Heider, Patrick	(22) 18.11.2019
(21) EP18927751.0	Fuchs, Oliver	(54) HANDLE INTERLOCK UTILIZING SEAT
(47) 13.09.2023	Papenfuss, Andreas	BACK ROTATION
(87) JP2018027567	(31) 102021103125	(73) Magna Seating Inc.
30.01.2020	(32) 10.02.2021	(72) PLOCH, Steven
(22) 23.07.2018	(33) Germany	(31) 201862768132 P
(54) PANTOGRAPH	(51) B60N 2/00	(32) 16.11.2018
(73) Toyo Electric MFG. Co., Ltd.	G01L 1/20	(33) United States of America
(72) KOBAYASHI, Hayato	H01H 13/785	(51) B60N 2/42
NAKAJIMA, Shinji	(11) EP3995354	B64D 11/06
(51) B60L 15/20	(21) EP21206469.5	F16F 9/30
B60L 15/40	(47) 13.09.2023	(11) EP4011692
B61L 27/14	(22) 04.11.2021	(21) EP22155943.8
B61L 3/00	(54) COVERING PART FOR MOTOR	(47) 13.09.2023
B61L 15/00	VEHICLE INCLUDING A PRESSURE	(22) 30.01.2020
(11) EP3656600	SENSOR	(54) RADIAL SLIT DISC ENERGY
(21) EP18835604.2	(73) Adler Pelzer France Grand-Est	ATTENUATION ASSEMBLY
(47) 13.09.2023	(72) JEUNEHOMME, Franck, Luc	(73) Goodrich Corporation
(87) JP2018012235	CHAUVEAU, Benoît, Marc, Daniel	(72) SAINI, Mohinder
24.01.2019	(31) 2011306	PURUSHOTHAMAN, Srijith
(22) 26.03.2018	(32) 04.11.2020	JATHAVEDAN, Krishnakumar
(54) DRIVING OPERATION	(33) France	Vadakkedathu
DETERMINATION TABLE DATA	(51) B60N 2/005	(31) 201911003723
CREATION UNIT, TRAIN OPERATION	B60N 2/07	(32) 30.01.2019
ASSISTANCE SYSTEM, AND TRAIN	B60N 2/08	(33) India
OPERATION ASSISTANCE METHOD	B60N 2/24	(51) B60N 2/80
(73) Hitachi, Ltd.	B61D 33/00	B60N 2/58
(72) YOKOTA, Masataka	B64D 11/06	(11) EP3844022
ODA, Atsushi	B60N 2/015	(21) EP19749361.2
NISHINO, Takayoshi	(11) EP3828026	(47) 13.09.2023
MIYAUCHI, Tsutomu	(21) EP20209468.6	(87) EP2019071312
(31) 2017141372	(47) 13.09.2023	05.03.2020
(32) 20.07.2017	(22) 24.11.2020	(22) 08.08.2019
(33) Japan	(54) DEVICE FOR ATTACHING A VEHICLE	(54) HEAD-REST OF A VEHICLE SEAT
(51) B60L 53/10	SEAT	(73) TESCA France
H01M 10/42	(73) SpeedInnov	(72) GUSTIN, José
B60L 50/50	(72) MANDERSCHIED, Thierry	GANIER, David
B60L 58/10	BEAUSEIGNEUR, Christophe	(31) 1857781
(11) EP3489071	BENIZEAU, Fabrice	(32) 29.08.2018
(21) EP18809161.5	(31) 1913229	(33) France
(47) 13.09.2023	(32) 26.11.2019	(51) B60N 3/06
(87) KR2018002122	(33) France	(11) EP4037933
06.12.2018	(51) B60N 2/02	(21) EP20781451.8
(22) 21.02.2018	B60N 2/20	(47) 13.09.2023
(54) VEHICLE BATTERY REMOTE	G01D 5/14	(87) EP2020076381
MANAGEMENT SYSTEM AND	H02P 6/04	08.04.2021
METHOD	H03K 7/08	(22) 22.09.2020
(73) LG Energy Solution, Ltd.	H02P 5/00	(54) FOOT SUPPORT DEVICE FOR A
(72) LEE, Hujun	H02P 5/68	FOOTWELL OF A VEHICLE
LEE, Sang Hoon	(11) EP3825168	(73) Audi AG
SUNG, Chang Hyun	(21) EP20203829.5	ZF Automotive Germany GmbH
(31) 20170067699	(47) 13.09.2023	(72) JAKOBS, Bernd
(32) 31.05.2017	(22) 26.10.2020	FÜRST, Franz
(33) Korea (Republic)	(54) FOLDING CONTROL APPARATUS AND	KRÖNES, Walter
(51) B60L 53/31	METHOD FOR VEHICLE SEATS	GRUNDHEBER, Christoph
B62H 3/02	(73) Hyundai Transys Inc.	(31) 102019126236
B62H 5/00	(72) LEE, Jin Woo	(32) 30.09.2019
(11) EP4043274	(31) 20190150417	(33) Germany
(21) EP22154754.0	(32) 21.11.2019	(51) B60P 1/64
(47) 13.09.2023	(33) Korea (Republic)	B65G 63/06
(22) 02.02.2022	(51) B60N 2/30	B66F 3/24
(54) SYSTEM FOR SECURING AND	B60N 2/12	B66F 3/46
CHARGING ELECTRICALLY	B60N 2/90	B65D 90/12
OPERATED TWO-WHEELED	(11) EP3840984	B66F 3/38
VEHICLES SUCH AS E-BIKES, E-	(21) EP19817091.2	(11) EP4043279

(21) EP21156667.4	(54) SLIDE-OUT SYSTEM FOR A RECREATIONAL VEHICLE AND ASSOCIATED METHOD	(11) EP3938245
(47) 13.09.2023		(21) EP20709534.0
(22) 11.02.2021		(47) 13.09.2023
(54) DEVICE AND METHOD FOR SWAPPING A SWAP BODY IN A HEAVY GOODS VEHICLE	(73) XL IP B.V.	(87) EP2020055590
(73) BK-Wechseltechnik GmbH	(72) Rodabaugh, Daniel K.	17.09.2020
(72) BOGENSCHÜTZ, Georg	(31) 201615085373	(22) 03.03.2020
BRICHTA, Jürgen	201615085332	(54) DRIVER ASSISTANCE METHOD AND APPARATUS
(51) B60P 3/00	201514545162	(73) Jaguar Land Rover Limited
B60P 1/02	(32) 30.03.2016	(72) FREEMAN-POWELL, Aaron
(11) EP3929032	30.03.2016	(31) 201903323
(21) EP21180967.8	31.03.2015	(32) 12.03.2019
(47) 13.09.2023	(33) United States of America	(33) United Kingdom
(22) 22.06.2021	United States of America	
(54) SELF-PROPELLED VEHICLE FOR HANDLING GLASS-SHEET SUPPORTING RACKS	United States of America	(51) B60R 5/02
(73) ITALCARRELLI S.p.A.	(51) B60Q 1/068	(11) EP3980296
(72) NEGRIN, Alessandro	B60Q 1/076	(21) EP20725997.9
(31) 202000015211	(11) EP4048553	(47) 13.09.2023
(32) 24.06.2020	(21) EP20808179.4	(87) EP2020062490
(33) Italy	(47) 13.09.2023	10.12.2020
(51) B60P 3/22	(87) FR2020051906	(22) 06.05.2020
(11) EP4023494	29.04.2021	(54) STORAGE COMPARTMENT DEVICE FOR A FRONT-END STRUCTURE OF A MOTOR VEHICLE
(21) EP21212450.7	(22) 22.10.2020	(73) Mercedes-Benz Group AG
(47) 13.09.2023	(54) SUPPORT DEVICE FOR A LEVELLING DEVICE OF A MOTOR VEHICLE	(72) KOWOLLIK, Volker
(22) 06.12.2021	HEADLIGHT	(31) 102019004010
(54) FLAMMABLE FLUID DELIVERY VEHICLE	(73) PSA Automobiles SA	(32) 06.06.2019
(73) Cryolor Société Anonyme	(72) VIDEIRA, Filipe	(33) Germany
(72) VARRASSI, Lucien	ROYER, Guillaume	
GIBAUD, Etienne	(31) 1911829	(51) B60R 13/08
(31) 2100014	(32) 23.10.2019	G10K 11/172
(32) 04.01.2021	(33) France	B62D 25/12
(33) France	(51) B60Q 3/54	(11) EP3909813
(51) B60P 3/22	B60R 13/02	(21) EP19908736.2
E03F 7/10	B60K 37/06	(47) 13.09.2023
B65D 90/54	(11) EP4077049	(87) JP2019049456
B65D 90/58	(21) EP20819691.5	16.07.2020
B65D 88/12	(47) 13.09.2023	(22) 17.12.2019
(11) EP3815969	(87) EP2020084233	(54) SOUND DAMPENING MEMBER FOR ELECTRIC-POWERED VEHICLES
(21) EP19306425.0	24.06.2021	(73) FUJIFILM Corporation
(47) 13.09.2023	(22) 02.12.2020	(72) HAKUTA Shinya
(22) 04.11.2019	(54) OPERATING UNIT FOR A MOTOR VEHICLE	HOSOKAWA Takafumi
(54) SEWER-CLEANING VEHICLE COMPRISING AN OPTIMISED STORAGE TANK	(73) Lisa Dräxlmaier GmbH	YAMAZOE Shogo
(73) Huwer Holding	(72) PAINTNER, Linda	(31) 2019003108
(72) AVICE, Jean-Michel	WINDL, Michael	(32) 11.01.2019
(51) B60P 3/24	(31) 102019134504	(33) Japan
E03F 7/10	(32) 16.12.2019	
(11) EP3984816	(33) Germany	(51) B60R 16/023
(21) EP21202094.5	(51) B60R 1/00	B60R 16/02
(47) 13.09.2023	(11) EP4077051	H04L 12/28
(22) 12.10.2021	(21) EP20839024.5	H04L 12/40
(54) TANK FOR SEWER CLEANING TRUCK	(47) 13.09.2023	H04L 9/40
(73) BAROCLEAN	(87) EP2020087549	(11) EP3800092
(72) PFISTER, Bernard	24.06.2021	(21) EP20209771.3
(31) 2010433	(22) 21.12.2020	(47) 13.09.2023
(32) 13.10.2020	(54) METHOD FOR AIDING THE MANOEUVRING OF AN AUTOMOTIVE VEHICLE AND AUTOMOTIVE LIGHTING DEVICE	(22) 23.03.2015
(33) France	(73) VALEO VISION	(54) VEHICLE-MOUNTED NETWORK SYSTEM, INVALIDITY DETECTION ELECTRONIC CONTROL UNIT, AND INVALIDITY DETECTION METHOD
(51) B60P 3/34	(72) NAMYSLO, Stefan	(73) Panasonic Intellectual Property Corporation of America
(11) EP3470265	MOISY, Eric, Martin, Claude	(72) MAEDA, Manabu
(21) EP18191171.0	COURCIER, Marine	MATSUSHIMA, Hideki
(47) 13.09.2023	(31) 1915174	HAGA, Tomoyuki
(22) 31.03.2016	(32) 20.12.2019	UNAGAMI, Yuji
	(33) France	UJIE, Yoshihiro
	(51) B60R 1/00	KISHIKAWA, Takeshi
	G01C 3/00	(31) 2015032179

201461980821 P	21.06.2018	(33) France
(32) 20.02.2015	(22) 27.11.2017	(51) B60S 3/04
17.04.2014	(54) ARRANGEMENT FOR OPERATING	B08B 1/00
(33) Japan	ONE OR MORE WINDOWS INSTALLED	B25J 11/00
United States of America	IN A VEHICLE	(11) EP3898355
(51) B60R 19/02	(73) Continental Automotive Technologies	(21) EP19829042.1
B60D 1/56	GmbH	(47) 13.09.2023
B60R 19/18	(72) HEBLING, Annette	(87) EP2019084917
B62D 25/20	HEINRICH, Alexander	25.06.2020
(11) EP4056430	(31) 102016224750	(22) 12.12.2019
(21) EP21161415.1	(32) 12.12.2016	(54) ROBOT TOOL, ROBOT
(47) 13.09.2023	(33) Germany	ARRANGEMENT, AND METHOD
(22) 09.03.2021	(51) B60S 1/04	FOR OPERATING A ROBOT
(54) TOWING DEVICE ARRANGEMENT,	B60S 1/38	ARRANGEMENT FOR CLEANING
BUMPER BEAM AND A PROCESS OF	B60S 1/40	VEHICLE SURFACES
ARRANGING A TOWING DEVICE ON A	(11) EP3829939	(73) VOLKSWAGEN
CROSSMEMBER	(21) EP19731188.9	AKTIENGESELLSCHAFT
(73) AUTOTECH ENGINEERING S.L.	(47) 13.09.2023	(72) RÜHE, Sebastian Philipp
(72) Muskos, Per	(87) EP2019065051	OTREMBIA, Maik
(51) B60R 21/261	06.02.2020	(31) 102018222651
(11) EP4021764	(22) 08.06.2019	(32) 20.12.2018
(21) EP20753690.5	(54) ADAPTER UNIT AND WIPER SYSTEM	(33) Germany
(47) 13.09.2023	(73) Robert Bosch GmbH	(51) B60S 3/04
(87) EP2020071389	(72) DEPONDT, Helmut	B60S 3/00
04.03.2021	TRUYENS, Stijn	(11) EP3943349
(22) 29.07.2020	KRAEMER, Godelieve	(21) EP20725208.1
(54) ASSEMBLY OF A COVERING CAP OF	KRUSE, Michael	(47) 13.09.2023
A TUBULAR GAS GENERATOR AND	BUBBA, Marcello	(87) ES2020070190
A DEFLECTOR ELEMENT, TUBULAR	BRATEC, Herve	24.09.2020
GAS GENERATOR AND METHOD	(31) 102018212651	(22) 18.03.2020
FOR PRODUCING A TUBULAR GAS	(32) 30.07.2018	(54) AUTOMATED WASHING UNIT FOR A
GENERATOR	(33) Germany	HEAVY-DUTY VEHICLE
(73) ZF Airbag Germany GmbH	(51) B60S 1/38	(73) Chirila, Mircea
(72) JUNG, Christian	C08L 7/00	(72) Chirila, Mircea
KAPFELSPERGER, Thomas	C08L 9/00	(31) 201900042
SCHMÖKEL, Michael	(11) EP3649023	(32) 20.03.2019
(31) 102019122992	(21) EP18752563.9	(33) Spain
(32) 27.08.2019	(47) 13.09.2023	(51) B60T 1/10
(33) Germany	(87) FR2018051707	B60L 15/20
(51) B60R 22/14	10.01.2019	B62D 59/04
A63G 7/00	(22) 06.07.2018	(11) EP3684657
B60R 21/02	(54) WIPER BLADE, PRODUCTION	(21) EP18857697.9
B60R 21/00	METHOD AND WIPER FRAME DEVICE	(47) 13.09.2023
(11) EP4072907	CONTAINING NATURAL RUBBER AND	(87) AU2018000183
(21) EP20838810.8	POLYBUTADIENE	28.03.2019
(47) 13.09.2023	(73) Compagnie Générale des	(22) 24.09.2018
(87) US2020064618	Etablissements Michelin	(54) ENERGY MANAGEMENT SYSTEM
17.06.2021	(72) JUILLARD, Bertrand	FOR A TOWED VEHICLE
(22) 11.12.2020	VOGE, Bozena	(73) Da Rouge Pty Ltd ATF Da Rouge Unit
(54) RIDE VEHICLE RESTRAINT SYSTEM	MATYAS, Istvan	Trust
WITH FORCED AIR SYSTEM	(31) 1770722	(72) HUETT, Andrew
(73) Universal City Studios LLC	(32) 06.07.2017	KAPTAN, Senoll
(72) MALATEK, Garrett	(33) France	(31) 2017903872
WILCOX, Rachel Sarah	(51) B60S 1/56	(32) 22.09.2017
ALARCON, Luis Carlos	B60S 1/52	(33) Australia
(31) 202017118297	(11) EP3856586	(51) B60T 7/12
201962947463 P	(21) EP19773098.9	B60W 30/14
(32) 10.12.2020	(47) 13.09.2023	(11) EP3894287
12.12.2019	(87) EP2019075941	(21) EP19832799.1
(33) United States of America	02.04.2020	(47) 13.09.2023
United States of America	(22) 25.09.2019	(87) US2019065746
(51) B60R 25/20	(54) SYSTEM FOR CLEANING A	18.06.2020
B60R 25/24	PLURALITY OF SENSORS OF A	(22) 11.12.2019
B60J 3/04	MOTOR VEHICLE	(54) CRUISE CONTROL CANCEL, WITH
(11) EP3551507	(73) Valeo Systèmes d'Essuyage	BRAKE PRECHARGE
(21) EP17807817.6	(72) TREBOUET, Marcel	(73) Continental Automotive Systems, Inc.
(47) 13.09.2023	(31) 1858951	(72) TUHRO, Matthew Conrad
(87) EP2017080482	(32) 28.09.2018	(31) 201916291591



201862778672 P	(22) 12.12.2017	BUNK, Michael
(32) 04.03.2019	(54) METHOD FOR IMPROVING THE	FRANK, Daniel
12.12.2018	ADHESION OF A RAIL VEHICLE BY	(31) 102017214858
(33) United States of America	CONDITIONING SELECTED AXLE(S)	(32) 24.08.2017
United States of America	(73) KNORR-BREMSE Systeme für	(33) Germany
(51) B60T 7/20	Schienenfahrzeuge GmbH	(51) B60T 11/16
B60K 1/04	(72) RASEL, Thomas	B60T 11/24
B60L 15/20	FRIESEN, Ulf	(11) EP3802249
B60T 8/17	HERDEN, Marc-Oliver	(21) EP19731350.5
(11) EP4054905	WACH, Jörg-Johannes	(47) 13.09.2023
(21) EP20804491.7	MAYER, Reinhold	(87) IB2019054424
(47) 13.09.2023	(31) 102016125194	05.12.2019
(87) EP2020081463	(32) 21.12.2016	(22) 29.05.2019
14.05.2021	(33) Germany	(54) ACTUATION PUMP OF A BRAKING
(22) 09.11.2020	(51) B60T 8/17	SYSTEM FOR VEHICLES, AND
(54) METHOD AND SYSTEM FOR BRAKING	B60T 8/1755	BRAKING SYSTEM FOR VEHICLES
A COMMERCIAL VEHICLE WITH AN	B60T 8/1761	THEOREOF
ELECTRICAL DRIVE	B60T 8/32	(73) BREMBO S.p.A.
(73) ZF CV Systems Global GmbH	B60T 8/40	(72) ARIENTI, Roberto
(72) HANSLIK, Daniel	(11) EP3853086	COMENDULI, Alberto
HESEDING, Johannes	(21) EP19783696.8	GUALANDRIS, Massimo
RICKE, Janik	(47) 13.09.2023	(31) 201800005911
WALLBAUM, Torsten	(87) IB2019057769	(32) 31.05.2018
(31) 102019130200	26.03.2020	(33) Italy
(32) 08.11.2019	(22) 16.09.2019	(51) B60T 13/26
(33) Germany	(54) AUTOMATIC CONTROLLED BRAKE-	B60T 15/02
(51) B60T 7/22	BY-WIRE BRAKING SYSTEM FOR	B60T 13/68
(11) EP4032770	MOTORCYCLES	B60T 13/66
(21) EP21214783.9	(73) BREMBO S.p.A.	(11) EP3747716
(47) 13.09.2023	(72) CAPPELLETTI, Luca	(21) EP19177982.6
(22) 15.12.2021	MAZZOLENI, Samuele	(47) 13.09.2023
(54) AUTOMATIC EMERGENCY BRAKING	BELLONI, Andrea	(22) 03.06.2019
USING A TIME-TO-COLLISION	(31) 201800008726	(54) PNEUMATIC VEHICLE AXLE BRAKE
THRESHOLD BASED ON TARGET	(32) 19.09.2018	ASSEMBLY
ACCELERATION	(33) Italy	(73) Haldex Brake Products Aktiebolag
(73) Aptiv Technologies Limited	(51) B60T 8/36	(72) MELLINGS, Carl
(72) MINGDA, Yang	(11) EP3820749	HARRISON, Dudley
(31) 202117158617	(21) EP19729723.7	HEER, Siegfried
(32) 26.01.2021	(47) 13.09.2023	(51) B60T 13/38
(33) United States of America	(87) EP2019064797	B60T 13/68
(51) B60T 8/00	16.01.2020	B60T 15/04
B60T 8/1755	(22) 06.06.2019	(11) EP3996961
B60W 10/20	(54) CONTROL DEVICE AND METHOD FOR	(21) EP20739941.1
B60W 10/18	ELECTRICALLY SWITCHING A TWO-	(47) 13.09.2023
B60W 30/09	STAGE SOLENOID VALVE	(87) EP2020069412
B62J 27/00	(73) Robert Bosch GmbH	21.01.2021
(11) EP3967563	(72) BENZLER, Steffen	(22) 09.07.2020
(21) EP20805338.9	NAGAKURA, Yasutaka	(54) PARKING BRAKE DEVICE FOR A
(47) 13.09.2023	(31) 102018211686	COMMERCIAL VEHICLE
(87) JP2020018876	(32) 13.07.2018	(73) KNORR-BREMSE Systeme für
19.11.2020	(33) Germany	Nutzfahrzeuge GmbH
(22) 11.05.2020	(51) B60T 8/40	(72) SCHNITTGER, Karsten
(54) LEANING VEHICLE COMPRISING	(11) EP3672851	(31) 102019118895
BRAKE ASSIST CONTROL DEVICE	(21) EP18743478.2	(32) 12.07.2019
(73) Yamaha Hatsudoki Kabushiki Kaisha	(47) 13.09.2023	(33) Germany
(72) TORIGOE, Hoshimi	(87) EP2018069625	(51) B60T 13/40
KOBAYASHI, Hiroshi	28.02.2019	B60T 17/04
KISHI, Tomoaki	(22) 19.07.2018	B33Y 80/00
YASUKAWA, Risa	(54) METHOD FOR PREVENTING AN	(11) EP3828045
(31) 2019089839	EXCEEDANCE OF A PERMISSIBLE	(21) EP19212529.2
(32) 10.05.2019	MAXIMUM PRESSURE OF A	(47) 13.09.2023
(33) Japan	HYDRAULIC EXTERNALLY POWERED	(22) 29.11.2019
(51) B60T 8/17	VEHICLE BRAKING SYSTEM WITH	(54) 3D PRINTED MANIFOLD FOR A
(11) EP3558768	SLIP CONTROL	PNEUMATIC CONTROL PANEL OF A
(21) EP17832484.4	(73) Robert Bosch GmbH	RAILWAY VEHICLE
(47) 13.09.2023	(72) KRAUTTER, Andreas	(73) KNORR-BREMSE Systeme für
(87) EP2017082385	FOERCH, Dirk	Schienenfahrzeuge GmbH
28.06.2018	FOITZIK, Bertram	(72) METAL, Attila

KEKEDI, Barnabas	(73) HS R & A Co., Ltd.	B60W 30/14
(51) B60T 13/62	(72) KIM, Byeong Ju	B60W 50/08
F16K 3/32	CHOI, Jae Hyeok	B60W 50/10
F16K 3/24	KIM, Guk Hyun	B60W 50/14
F16K 15/18	(31) 20200004390	B60W 60/00
F02M 19/08	(32) 13.01.2020	G08G 1/0962
F04F 5/22	(33) Korea (Republic)	G08G 1/0967
F04F 5/46	(51) B60T 17/04	G08G 1/14
F02M 35/10	(11) EP3848262	(11) EP3597500
F02B 37/16	(21) EP20217762.2	(21) EP18768495.6
F04F 5/44	(47) 13.09.2023	(47) 13.09.2023
F04F 5/20	(22) 30.12.2020	(87) JP2018007935
(11) EP3177390	(54) CONNECTOR FOR SETTING LAYOUT	20.09.2018
(21) EP15830300.8	OF BRAKE HOSE	(22) 02.03.2018
(47) 13.09.2023	(73) HS R & A Co., Ltd.	(54) DRIVING ASSISTANCE DEVICE AND
(87) US2015043911	(72) KIM, Byeong Ju	METHOD
11.02.2016	CHOI, Jae Hyeok	(73) Hitachi Astemo, Ltd.
(22) 06.08.2015	KIM, Guk Hyun	(72) MATSUDA, Satoshi
(54) PNEUMATICALLY ACTUATED VACUUM	SUNG, Seung Hoon	YOSHIDA, Yoshiyuki
PUMP HAVING MULTIPLE VENTURI	LEE, Seung Hyo	(31) 2017052688
GAPS AND CHECK VALVES	(31) 20200004391	(32) 17.03.2017
(73) Dayco IP Holdings, LLC	(32) 13.01.2020	(33) Japan
(72) FLETCHER, David E.	(33) Korea (Republic)	(51) B60W 30/18
GRAICHEN, Brian M.	(51) B60T 17/22	(11) EP3810473
HAMPTON, Keith	B60T 8/17	(21) EP19737841.7
(31) 201414452651	(11) EP3957528	(47) 13.09.2023
(32) 06.08.2014	(21) EP21201967.3	(87) FR2019051328
(33) United States of America	(47) 13.09.2023	26.12.2019
(51) B60T 13/74	(22) 27.02.2019	(22) 05.06.2019
B60T 1/00	(54) AIRCRAFT BRAKING	(54) METHOD AND SYSTEM FOR
B60T 1/06	(73) Airbus Operations Limited	MANAGING A LANE CHANGE OF
F16D 63/00	AIRBUS OPERATIONS (S.A.S)	AN AUTONOMOUS OR PARTIALLY
F16D 121/16	Airbus S.A.S.	AUTONOMOUS VEHICLE
(11) EP3904168	(72) BILL, Andrew	(73) PSA Automobiles SA
(21) EP20171696.6	OZA, Utsav	(72) VARNIER, Matthieu
(47) 13.09.2023	RAMIREZ-PAYA, Esther	(31) 1855439
(22) 28.04.2020	CLARKE, David	(32) 20.06.2018
(54) ELECTROMECHANICAL BRAKE	(31) 201811179	(33) France
SYSTEM AND METHOD FOR	201803203	(51) B60W 50/02
RELEASING AN ELECTRO-	(32) 06.07.2018	B60W 50/029
MECHANICAL BRAKE SYSTEM	27.02.2018	(11) EP3652037
(73) KNORR-BREMSE Systeme für	(33) United Kingdom	(21) EP18832834.8
Nutzfahrzeuge GmbH	United Kingdom	(47) 13.09.2023
(72) BLESSING, Michael	(51) B60W 30/09	(87) US2018041870
SZABO, Janos	B60W 50/14	17.01.2019
KOKREHEL, Csaba	B60W 40/08	(22) 12.07.2018
MLINARCSEK, Csaba	B60W 10/184	(54) ELECTROMECHANICAL CONTROLLER
NEMETH, Huba	B60W 10/20	(73) Danfoss Power Solutions II Technology
BUCH, Andreas	(11) EP3444159	A/S
PAHLE, Wolfgang	(21) EP18186821.7	(72) PETRE, Yolanda
(51) B60T 15/02	(47) 13.09.2023	LAUER, Peter Maria
(11) EP3984843	(22) 01.08.2018	(31) 201762532283 P
(21) EP20202585.4	(54) MULTI-MODAL SWITCHING ON A	(32) 13.07.2017
(47) 13.09.2023	COLLISION MITIGATION SYSTEM	(33) United States of America
(22) 19.10.2020	(73) UATC, LLC	(51) B60W 50/023
(54) ELECTRONICALLY CONTROLLED	(72) WOOD, Matthew Shaw	B60W 50/02
PROTECTION VALVE	LEACH, William M.	B60R 16/02
(73) KNORR-BREMSE Systeme für	POEPEL, Scott C.	B60R 16/023
Nutzfahrzeuge GmbH	LETWIN, Nicholas G.	B60W 10/04
(72) POLYAK, Tibor	ZYCH, Noah	B60W 10/184
RATATICS, Gabor	(31) 201715668196	B60W 10/20
(51) B60T 17/04	(32) 03.08.2017	B62D 5/04
(11) EP3848261	(33) United States of America	G06F 11/20
(21) EP20217752.3	(51) B60W 30/095	G06F 11/07
(47) 13.09.2023	B60R 21/00	(11) EP3998182
(22) 30.12.2020	G01C 21/34	(21) EP20847516.0
(54) CONNECTOR FOR SETTING LAYOUT	G08G 1/16	(47) 13.09.2023
OF BRAKE HOSE	B62D 15/02	(87) JP2020028015

04.02.2021	(32) 01.06.2015	(31) 2001213
(22) 20.07.2020	01.06.2015	(32) 07.02.2020
(54) VEHICLE CONTROL SYSTEM	(33) United Kingdom	(33) France
(73) MAZDA MOTOR CORPORATION	United Kingdom	
(72) KUROKAWA, Yoshimasa	(51) B61C 9/14	(51) B61D 17/10
YAMASHITA, Tetsuhiro	B61D 15/00	B61D 1/06
(31) 2019140264	B61C 5/00	B62D 25/20
(32) 30.07.2019	B61D 15/02	(11) EP4086134
(33) Japan	B66C 23/50	(21) EP22171347.2
(51) B60W 50/029	E01B 29/06	(47) 13.09.2023
G06F 1/3287	(11) EP4019362	(22) 03.05.2022
H02J 9/00	(21) EP21214351.5	(54) REMOVABLE FLOOR SYSTEM AND
G06F 11/07	(47) 13.09.2023	VEHICLE COMPRISING SUCH A
B60Q 11/00	(22) 14.12.2021	SYSTEM
(11) EP4001040	(54) RAIL VEHICLE AND METHOD FOR	(73) SpeedInnov
(21) EP20847946.9	OPERATING THE RAIL VEHICLE	(72) SERVANT, Alexandre
(47) 13.09.2023	(73) Plasser & Theurer Export Von	(31) 2104677
(87) JP2020027852	Bahnbaumaschinen Gesellschaft m.b.H.	(32) 04.05.2021
04.02.2021	(72) KAISER, Christoph	(33) France
(22) 17.07.2020	(31) 511432020	(51) B61D 17/20
(54) VEHICLE CONTROL SYSTEM	(32) 28.12.2020	B60D 5/00
(73) MAZDA MOTOR CORPORATION	(33) Austria	B61D 17/22
(72) KUROKAWA, Yoshimasa	(51) B61C 9/38	(11) EP3366542
YAMASHITA, Tetsuhiro	B61F 5/52	(21) EP18163595.4
(31) 2019140267	(11) EP3978329	(47) 13.09.2023
(32) 30.07.2019	(21) EP20813066.6	(22) 07.06.2013
(33) Japan	(47) 13.09.2023	(54) GANGWAY WITH A BELLOW FOR
(51) B60W 50/10	(87) CN2020090833	CONNECTING A FIRST CAR WITH A
B60W 30/16	03.12.2020	SECOND CAR
B60W 50/14	(22) 18.05.2020	(73) Dellner Couplers AB
B60W 50/00	(54) RAIL VEHICLE GEAR BOX, RAIL	(72) SMITH, Graham Steven
(11) EP3891036	VEHICLE BOGIE, AND RAIL VEHICLE	(51) B61D 29/00
(21) EP19839639.2	(73) CRRG QINGDAO SIFANG CO., LTD.	(11) EP3988419
(47) 13.09.2023	(72) SONG, Shuliang	(21) EP21203788.1
(87) FR2019052783	CHANG, Zhen	(47) 13.09.2023
11.06.2020	ZHANG, Yuejun	(22) 20.10.2021
(22) 22.11.2019	ZHOU, Jinming	(54) DEVICE FOR MANAGING THE LIGHT
(54) METHOD FOR MANAGING AN	LI, Tianyi	FOR A VEHICLE, ASSOCIATED
ASSISTED DRIVING MODE OF A	(31) 201910463546	VEHICLE AND METHOD
MOTOR VEHICLE IMPLEMENTING	(32) 30.05.2019	(73) ALSTOM Transport Technologies
AN ADAPTIVE CRUISE-CONTROL	(33) China	(72) CHIADINI, Luca
FUNCTION	(51) B61D 17/04	FAUROIS, Damien
(73) PSA Automobiles SA	F16B 11/00	SCARAMUZZINO, Jean-Pierre
(72) COHEN, Christel	F16B 5/00	DE-COLOMBEL, Bertrand
HECKETSWEILER, Thierry	F16B 5/06	ETHIRAJALU, Gopi
ROTHENBURGER, Nicolas	(11) EP3267047	(31) 2010778
(31) 1872466	(21) EP17179808.5	(32) 21.10.2020
(32) 06.12.2018	(47) 13.09.2023	(33) France
(33) France	(22) 05.07.2017	(51) B61H 9/02
(51) B60W 50/16	(54) DEVICE FOR ASSEMBLING TWO	B66B 5/04
B60W 50/00	PROFILES	B60R 22/38
B60K 26/02	(73) ALSTOM Transport Technologies	(11) EP4132834
(11) EP3303089	(72) HALLONET, Frédéric	(21) EP21758810.2
(21) EP16725155.2	(31) 1656473	(47) 13.09.2023
(47) 13.09.2023	(32) 06.07.2016	(87) SE2021050734
(87) EP2016062005	(33) France	20.01.2022
08.12.2016	(51) B61D 17/08	(22) 16.07.2021
(22) 27.05.2016	B61D 17/04	(54) ACTUATOR ACTIVATED BY
(54) COAST ASSIST CONTROLLER WITH	(11) EP3862243	TRANSVERSAL ACCELERATION
HAPTIC FEEDBACK	(21) EP21155503.2	(73) Brilliance Sweden AB
(73) Jaguar Land Rover Limited	(47) 13.09.2023	(72) ZANDER, Patrik
(72) KREHL, Claudia	(22) 05.02.2021	ZANDER, Sten-Thore
HASEDZIC, Elvir	(54) WALL FOR VEHICLE, PREFERABLY	(31) 2050909
SINGH, Harpreet	A RAILWAY VEHICLE, ASSOCIATED	(32) 17.07.2020
THOMAS, Philip	METHOD FOR MANUFACTURING	(33) Sweden
PETER, Shinu	SAME AND VEHICLE	(51) B61L 15/00
(31) 201509428	(73) ALSTOM Transport Technologies	(11) EP3666620
201509430	(72) MIFSUD, Marc	(21) EP18306672.9

(47) 13.09.2023	B62B 3/14	26.12.2019
(22) 12.12.2018	(11) EP3533686	(22) 17.06.2019
(54) RAILWAY VEHICLE TRAIN CONSIST AND RAILWAY VEHICLE	(21) EP19159373.0	(54) MOTOR VEHICLE CHASSIS, COMPRISING MEANS FOR DISTRIBUTING AGAINST A TUNNEL A FORCE APPLIED BY A CROSSMEMBER IN THE EVENT OF A SIDE IMPACT
(73) SpeedInnov	(47) 13.09.2023	(73) PSA Automobiles SA
(72) VIVEGNIS, Pascal	(22) 26.02.2019	(72) THOR, Tou
TURELLE, Bruno	(54) HANDCART	FONFREDE, Stéphane
OLIVER, Verstraet	(73) Toshiba Tec Kabushiki Kaisha	(31) 1855376
LEMAITRE, Bruno	(72) Iizaka, Hitoshi	(32) 19.06.2018
(51) B61L 15/00	Naito, Hidehiro	(33) France
G01S 19/42	Saitou, Takahiro	(51) B62D 21/15
G01S 19/09	Yokoyama, Yukiko	B62D 25/20
G01S 19/50	Kurata, Masachika	(11) EP3802288
B61L 25/02	Hara, Noriyoshi	(21) EP19790582.1
G01S 19/11	(31) 2018038012	(47) 13.09.2023
G01S 19/14	(32) 02.03.2018	(87) FR2019050911
(11) EP3904178	(33) Japan	28.11.2019
(21) EP20172406.9	(51) B62B 9/22	(22) 17.04.2019
(47) 13.09.2023	(11) EP3908497	(54) VEHICLE COMPRISING AN UNDERFLOOR REINFORCING ELEMENT FOR A DRIVE BATTERY HOUSING
(22) 30.04.2020	(21) EP20701234.5	(73) PSA Automobiles SA
(54) METHOD AND SYSTEM FOR MONITORING A TRAIN	(47) 13.09.2023	(72) PERU, Marc
(73) GTS Deutschland GmbH	(87) IB2020050117	(31) 1854420
(72) WALLNER, Christian	16.07.2020	(32) 24.05.2018
(51) B61L 23/34	(22) 08.01.2020	(33) France
B61L 27/16	(54) BABY ROCKING DEVICE	(51) B62D 25/08
B61L 27/40	(73) MEDIKA S.r.l.	B62D 21/15
(11) EP4119418	(72) AMENDUNI GRESELE, Massimo	(11) EP4037957
(21) EP21218259.6	(31) 201900000169	(21) EP20785821.8
(47) 13.09.2023	(32) 08.01.2019	(47) 13.09.2023
(22) 30.12.2021	(33) Italy	(87) FR2020051638
(54) METHOD AND APPARATUS FOR TRACKING AND CONTROLLING VIRTUAL MARSHALLING TRAINS, ELECTRONIC DEVICE, AND COMPUTER READABLE STORAGE MEDIUM	(51) B62D 6/00	08.04.2021
(73) Traffic Control Technology Co., Ltd.	(11) EP4052993	(22) 21.09.2020
(72) WU, Mengwei	(21) EP21882546.1	(54) SIDE IMPACT ABSORBER FOR A MOTOR VEHICLE
ZHANG, Lei	(47) 13.09.2023	(73) PSA Automobiles SA
BAO, Feng	(87) JP2021036644	(72) BENANE, Said
(31) 202110791290	28.04.2022	(31) 1911026
(32) 13.07.2021	(22) 04.10.2021	(32) 04.10.2019
(33) China	(54) CONTROL DEVICE AND ELECTRIC POWER STEERING DEVICE	(33) France
(51) B61L 27/40	(73) NSK Ltd.	(51) B62D 29/04
B61L 27/57	(72) KITAZUME Tetsuya	B32B 15/08
B61L 15/00	MARUYAMA Shoya	B62D 63/06
(11) EP3774489	(31) 2020176775	B62D 63/08
(21) EP19727838.5	(32) 21.10.2020	B32B 1/00
(47) 13.09.2023	(33) Japan	B32B 3/30
(87) EP2019061862	(51) B62D 15/02	B32B 5/02
05.12.2019	G08G 1/16	B32B 15/14
(22) 08.05.2019	(11) EP3867126	B32B 15/20
(54) SENSOR ANALYSIS METHOD, COMPUTER PROGRAM PRODUCT FOR SENSOR ANALYSIS, PASSENGER COUNTING SYSTEM, AND VEHICLE FOR TRANSPORTING PASSENGERS, IN PARTICULAR IN RAIL AND ROAD TRANSPORT	(21) EP19795289.8	(11) EP3865380
(73) Siemens Mobility GmbH	(47) 13.09.2023	(21) EP21156991.8
(72) SCHÖNBERGER, Andreas	(87) FR2019052312	(47) 13.09.2023
BECK, Anita	23.04.2020	(22) 12.02.2021
RICHTER, Martin	(22) 01.10.2019	(54) PLATE-SHAPED STRUCTURAL ELEMENT AND BODY FOR A LEISURE VEHICLE WITH SUCH A STRUCTURAL ELEMENT
(31) 102018208523	(54) METHOD AND DEVICE FOR ASSISTING WITH DRIVING A MOTOR VEHICLE DURING REVERSING	(73) Erwin Hymer Group SE
(32) 29.05.2018	(73) PSA Automobiles SA	(72) Buck, Rainer
(33) Germany	(72) FEINGOLD, Laurent	Metzler, Marcus
(51) B62B 5/00	RIAT, Jean Christophe	Dorn, Günter
	VRINAT, David	(31) 102020103544
	(31) 1859587	
	(32) 17.10.2018	
	(33) France	
	(51) B62D 21/15	
	B62D 25/20	
	(11) EP3810490	
	(21) EP19742643.0	
	(47) 13.09.2023	
	(87) FR2019051467	

(32) 12.02.2020	(54) SUSPENSION GROUP FOR MOTOR	(51) B63B 15/00
(33) Germany	VEHICLE, WHEEL GROUP FOR	(11) EP4028319
(51) B62D 35/00	MOTOR VEHICLE, FRONT END OF	(21) EP19798760.5
B62D 37/02	A MOTOR VEHICLE AND MOTOR	(47) 13.09.2023
(11) EP3575192	VEHICLE THEREOF	(87) PL2019000078
(21) EP19177676.4	(73) Piaggio & C. S.P.A.	18.03.2021
(47) 13.09.2023	(72) RAFFAELLI, Andrea	(22) 11.09.2019
(22) 31.05.2019	(31) 201600124367	(54) STANDING RIGGING COMPONENT,
(54) REMOTE OPTICAL WIND DETECTION	(32) 07.12.2016	IN PARTICULAR THE MAST OF A
AND AERODYNAMIC CONTROL	(33) Italy	VESSEL, AND THE METHOD OF ITS
SYSTEM FOR GROUND VEHICLE	(51) B62K 21/06	MANUFACTURE
(73) Paccar Inc	(11) EP3853114	(73) Sunreef Venture S.A.
(72) DAMON, Kenneth H.	(21) EP19790439.4	(72) VÉNEC, Loïc
SMITH, Jeffrey P.	(47) 13.09.2023	(51) B63B 17/02
ELLIS, Clifton	(87) DE2019100828	(11) EP4001086
(31) 201815993421	26.03.2020	(21) EP21209398.3
(32) 30.05.2018	(22) 20.09.2019	(47) 13.09.2023
(33) United States of America	(54) HEAD MOUNTING FOR HANDLEBARS	(22) 19.11.2021
(51) B62D 55/21	OF TWO- AND THREE-WHEEL	(54) SUPPORT SYSTEM FOR AWNING
(11) EP3793891	VEHICLES AND METHOD FOR	(73) I-Carbon Srl
(21) EP19723579.9	MANUFACTURING SUCH HEAD	(72) PELIZZA, Francesco
(47) 13.09.2023	MOUNTING	(31) 202000027828
(87) US2019029771	(73) HWG Horst Weidner GmbH	(32) 19.11.2020
21.11.2019	(72) BREITFELD, Sven	(33) Italy
(22) 30.04.2019	LUTTER, Johannes	(51) B63B 19/08
(54) MASTER LINK ASSEMBLY FOR A	(31) 102018123310	(11) EP3468861
TRACK CHAIN	(32) 21.09.2018	(21) EP17730764.2
(73) Caterpillar Inc.	(33) Germany	(47) 13.09.2023
(72) TRONE, Matthew	(51) B62M 1/10	(87) EP2017064475
(31) 201815983749	B62M 9/08	21.12.2017
(32) 18.05.2018	(11) EP4021790	(22) 14.06.2017
(33) United States of America	(21) EP20753667.3	(54) CLOSING DEVICE
(51) B62H 5/00	(47) 13.09.2023	(73) thyssenkrupp Marine Systems GmbH
B62J 9/00	(87) BG2020000027	thyssenkrupp AG
(11) EP3696062	29.07.2021	(72) OESMANN, Hans
(21) EP19382112.1	(22) 08.07.2020	SCHULZ, Marko
(47) 13.09.2023	(54) AUTOMATIC CYCLIC TRANSMISSION	HALFMANN, Sebastian
(22) 18.02.2019	(73) Ilova, Katerina Valentinova	(31) 102016210531
(54) LOCKING AND FASTENING DEVICE	(72) Ilova, Katerina Valentinova	(32) 14.06.2016
FOR A MOTORCYCLE CASE	(31) 11306820	(33) Germany
(73) NAD, S.L.	(32) 20.01.2020	(51) B63B 21/50
(72) AYALA GONZALEZ, Pedro	(33) Bulgaria	B63B 21/00
(51) B62J 37/00	(51) B62M 9/10	B63B 77/00
F02M 25/08	(11) EP3406512	E02B 17/02
(11) EP4023537	(21) EP18171101.1	E02B 17/00
(21) EP19943386.3	(47) 13.09.2023	B63B 35/28
(47) 13.09.2023	(22) 07.05.2018	B63B 35/34
(87) JP2019033307	(54) BICYCLE CRANKSET	(11) EP3943380
04.03.2021	(73) Campagnolo S.r.l.	(21) EP21186751.0
(22) 26.08.2019	(72) CIVIERO, Mirco	(47) 13.09.2023
(54) STRADDLE-TYPE VEHICLE	(31) 201700054982	(22) 20.07.2021
(73) HONDA MOTOR CO., LTD.	(32) 22.05.2017	(54) FLOATABLE STRUCTURE
(72) SANO Takahiro	(33) Italy	COMPRISING A MOORING SYSTEM
NAKAMURA Takuro	(51) B62M 9/123	FOR MOORING A SECOND FLOATING
(51) B62K 5/027	B62M 9/122	STRUCTURE, AND METHOD FOR
B62K 5/08	B62J 45/411	MOORING THE SECOND FLOATING
B62K 5/10	B62J 45/413	STRUCTURE
B62K 25/00	(11) EP4098534	(73) DEME Offshore BE N.V.
B60G 3/01	(21) EP22175980.6	(72) BERTELS, Michiel Marius
B60G 3/18	(47) 13.09.2023	RABAUT, Dieter Wim
B60G 3/20	(22) 30.05.2022	(31) 202016938513
(11) EP3551528	(54) BICYCLE CONTROL SYSTEM	(32) 24.07.2020
(21) EP17826287.9	(73) SRAM, LLC	(33) United States of America
(47) 13.09.2023	(72) Hahn, Sage	(51) B63B 27/30
(87) IB2017057729	(31) 202117338106	B63B 27/24
14.06.2018	(32) 03.06.2021	B67D 9/02
(22) 07.12.2017	(33) United States of America	(11) EP3820772
		(21) EP19753152.8

(47) 13.09.2023	(33) United States of America	(54) FASTENER MIGRATION LIMITING
(87) FR2019051711	(51) B63H 20/00	FEATURE
16.01.2020	B63H 21/17	(73) Goodrich Corporation
(22) 09.07.2019	(11) EP3892530	(72) FRENCH, Robert
(54) LIQUEFIED GAS TRANSFER SYSTEM	(21) EP21158943.7	(31) 201916727644
(73) Gaztransport et Technigaz	(47) 13.09.2023	(32) 26.12.2019
(72) ENGLEBERT, Patrick	(22) 24.02.2021	(33) United States of America
GELIN, Guillaume	(54) MARINE PROPULSION SYSTEM AND	(51) B64C 25/60
(31) 1856451	CONTROL METHOD	B64C 25/50
(32) 12.07.2018	(73) Yamaha Hatsudoki Kabushiki Kaisha	F16F 9/18
(33) France	(72) MIYAGI, Yuta	F16F 9/36
(51) B63B 35/34	(31) 2020036125	(11) EP3428063
E02B 3/06	(32) 03.03.2020	(21) EP18183423.5
(11) EP3867139	(33) Japan	(47) 13.09.2023
(21) EP19794910.0	(51) B63H 20/00	(22) 13.07.2018
(47) 13.09.2023	B63H 21/17	(54) HYDRAULIC SHIMMY DAMPER
(87) EP2019078220	B63H 21/38	(73) Goodrich Corporation
23.04.2020	B63H 23/04	(72) LUCE, William E.
(22) 17.10.2019	B63H 23/12	JOHN, Poly Purthur
(54) FLOATING BODY COMPRISING	B63H 23/14	SALUNKE, Anupkumar
AT LEAST ONE ELEMENT MADE	(11) EP4077123	(31) 201711024784
OF FOAM GLASS AND AT LEAST	(21) EP19832945.0	(32) 13.07.2017
ONE ONE-PIECE OR MULTI-PIECE	(47) 13.09.2023	(33) India
SUPPORT STRUCTURE	(87) EP2019086665	(51) B64C 29/02
(73) VSG mbH & Co. Energy KG	24.06.2021	B64C 11/00
(72) HEYER, Ulf	(22) 20.12.2019	B64C 27/20
(31) 102018125751	(54) MARINE PROPULSION UNIT AND	B64C 27/52
(32) 17.10.2018	MARINE VESSEL	B64C 29/00
(33) Germany	(73) Volvo Penta Corporation	B64C 27/08
(51) B63B 35/44	(72) CARLSSON, Lars-Gunnar	B64C 39/00
E21B 41/10	(51) B63H 21/22	(11) EP3724071
E21B 19/00	G01C 21/20	(21) EP18889855.5
(11) EP3755618	B63J 99/00	(47) 13.09.2023
(21) EP19716250.6	(11) EP3829974	(87) IB2018001569
(47) 13.09.2023	(21) EP19746040.5	20.06.2019
(87) NL2019050098	(47) 13.09.2023	(22) 11.12.2018
22.08.2019	(87) EP2019069341	(54) VARIABLE-GEOMETRY VERTICAL
(22) 14.02.2019	06.02.2020	TAKE-OFF AND LANDING (VTOL)
(54) VESSEL AND METHOD FOR	(22) 18.07.2019	AIRCRAFT SYSTEM
PERFORMING SUBSEA WELLBORE	(54) METHOD FOR EVALUATING SHALLOW	(73) Spencer, Cameron
RELATED ACTIVITIES, E.G.	WATER INFLUENCE	(72) Spencer, Cameron
WORKOVER ACTIVITIES, WELL	(73) Schottel GmbH	(31) 201762597823 P
MAINTENANCE, INSTALLING AN	(72) MERTES, Paul	(32) 12.12.2017
OBJECT ON A SUBSEA WELL BORE	(31) 102018118496	(33) United States of America
(73) Itrec B.V.	(32) 31.07.2018	(51) B64C 39/02
(72) ROODENBURG, Joop	(33) Germany	(11) EP3880554
WIJNING, Diederick Bernardus	(51) B64C 11/04	(21) EP18808405.7
(31) 2020481	(11) EP3713843	(47) 13.09.2023
2020458	(21) EP17932787.9	(87) FI2018050836
(32) 22.02.2018	(47) 13.09.2023	22.05.2020
19.02.2018	(87) CN2017112111	(22) 15.11.2018
(33) Netherlands	31.05.2019	(54) AN UNMANNED AERIAL VEHICLE AND
Netherlands	(22) 21.11.2017	A CHARGING PLATFORM FOR AN
(51) B63C 11/02	(54) SYSTEMS AND METHODS FOR	UNMANNED AERIAL VEHICLE
B63C 11/18	DETECTING PROPELLERS	(73) Nokia Technologies Oy
B63C 11/22	(73) SZ DJI Technology Co., Ltd.	(72) LITJENS, Stephan
(11) EP3475161	(72) JIANG, Bin	(51) B64D 1/04
(21) EP17815903.4	(51) B64C 25/42	(11) EP3841014
(47) 13.09.2023	B60C 23/18	(21) EP19847323.3
(87) US2017034896	F16D 65/78	(47) 13.09.2023
28.12.2017	F16B 5/00	(87) TR2019050659
(22) 28.05.2017	B64C 25/36	13.02.2020
(54) LIGHTWEIGHT, ADJUSTABLE	(11) EP3842339	(22) 07.08.2019
BOUYANCY SCUBA UNIT	(21) EP20217244.1	(54) A SUPPORT MECHANISM
(73) Avelo Labs Inc.	(47) 13.09.2023	(73) Tusas- Turk Havacilik Ve Uzay Sanayii
(72) Cahana, Aviad	(22) 24.12.2020	Anonim Sirketi
(31) 201662354342 P		(72) AKCAY, Ali
(32) 24.06.2016		IMECE, Onur

SENTURK, Sabri AKCAY, Nihat Serkan (31) 201811494 (32) 08.08.2018 (33) Türkiye	(54) AIRCRAFT LIGHTING HEALTH MONITORING SYSTEM (73) Goodrich Corporation (72) PALANIAPPAN, Elangovan (31) 202041016644 202017134338 (32) 17.04.2020 26.12.2020 (33) India	(51) B64D 11/06 B60N 2/01 B60N 2/30 (11) EP2803581 (21) EP14164281.9 (47) 13.09.2023 (22) 10.04.2014 (54) Passenger seat and passenger seating system having a flexible seating arrangement for means of passenger transport (73) Airbus Operations GmbH (72) Schomacker, Lars Quatmann, Frank (31) 102013103667 (32) 11.04.2013 (33) Germany
(51) B64D 1/22 B64F 1/32 B64U 10/13 B64U 101/60 (11) EP3774535 (21) EP19786232.9 (47) 13.09.2023 (87) US2019026970 17.10.2019 (22) 11.04.2019 (54) AUTONOMOUS PACKAGE STORAGE AND RETRIEVAL SYSTEM USING A DRONE (73) Laitram, LLC (72) RAGAN, Bryant G. COSTANZO, Mark LIGNIERES, Matthew A. (31) 201862656459 P (32) 12.04.2018 (33) United States of America	(33) United States of America (51) B64D 11/00 F21Y 113/13 (11) EP3882148 (21) EP21163713.7 (47) 13.09.2023 (22) 19.03.2021 (54) COLOR CORRECTION METHOD FOR CHROMATIC ABERRATION USING MULTIPLE COLOR LED SOURCES (73) B/E Aerospace, Inc. (72) JOHANNESSEN, Eric MAUZY, Jameson (31) 202016823826 (32) 19.03.2020 (33) United States of America	(51) B64D 11/06 B60N 2/68 (11) EP4045406 (21) EP21714096.1 (47) 13.09.2023 (87) EP2021055370 10.09.2021 (22) 03.03.2021 (54) AIRCRAFT PASSENGER SEAT WITH A PLUG CONNECTION (73) ZIM Aircraft Seating GmbH (72) JENSEN, Alexander (31) 102020106035 (32) 05.03.2020 (33) Germany
(51) B64D 9/00 B60P 7/13 (11) EP3771639 (21) EP20188096.0 (47) 13.09.2023 (22) 28.07.2020 (54) AIRCRAFT CARGO PALLET LOCK ASSEMBLIES (73) Embraer S.A. (72) Junior, Mario Tadeu Crema Trisotto, Saint Clair Filho, Carlos Rogulski Correa, Guilherme Peneluppi Germano, Douglas de Moura Kruger, Jean Carlo de Carvalho (31) 201916524745 (32) 29.07.2019 (33) United States of America	(51) B64D 11/06 (11) EP4036009 (21) EP22154328.3 (47) 13.09.2023 (22) 31.01.2022 (54) AIRCRAFT PASSENGER SEAT LEG REST DEPLOYMENT USING PATH AND FOLLOWER MECHANISM (73) B/E Aerospace, Inc. (72) BUNEA, Catalin JACOB, Twinkle V. (31) 202117161858 (32) 29.01.2021 (33) United States of America	(51) B64D 11/06 B60N 2/75 (11) EP3983295 (21) EP20734250.2 (47) 13.09.2023 (87) GB2020051393 17.12.2020 (22) 09.06.2020 (54) AIRCRAFT SEAT WITH MOVEABLE ARMREST (73) Safran Seats GB Limited (72) CHANDRA, Naval HAIKNEY, Daniel (31) 201908294 (32) 11.06.2019 (33) United Kingdom
(51) B64D 11/00 (11) EP3666650 (21) EP19215756.8 (47) 13.09.2023 (22) 12.12.2019 (54) DEPLOYABLE PORTABLE ELECTRONIC DEVICE HOLDER FOR AIRCRAFT SEAT (73) Rockwell Collins, Inc. (72) PUGLISI, Stephen A. PRINCIP, Michael M. PHILLIPS, Thomas L. (31) 201816218061 (32) 12.12.2018 (33) United States of America	(51) B64D 11/06 A47B 5/00 A47B 5/04 B60N 3/00 A47B 3/06 (11) EP3658459 (21) EP18749759.9 (47) 13.09.2023 (87) EP2018070488 31.01.2019 (22) 27.07.2018 (54) AIRCRAFT SEAT WITH A TABLE DEVICE (73) Recaro Aircraft Seating GmbH & Co. KG (72) SCHWEIZER, Oliver ERB, Andreas SCHREYER, Tim THIELE, Maik WEISENBERGER, Simon DRENZECK, Thomas MÜLLER, Michael WAGNER, Michael FRÖBEL, Marcel LAKEIT, Stefan REICHERT, Jan DERN, Patrick (31) 1020171117173 (32) 28.07.2017 (33) Germany	(51) B64D 11/06 B60N 2/90 B60N 2/75 (11) EP3901041 (21) EP21170531.4 (47) 13.09.2023 (22) 26.04.2021 (54) VERTICALLY STOWED PADDED TRAY TABLE FOR PASSENGER SEAT (73) B/E Aerospace, Inc. (72) FROST, Ian L. (31) 202117233718 202063015233 P (32) 19.04.2021 24.04.2020 (33) United States of America United States of America
(51) B64D 11/00 B60Q 3/47 B64D 47/02 B60Q 11/00 B64D 45/00 (11) EP3895988 (21) EP21168447.7 (47) 13.09.2023 (22) 14.04.2021		(51) B64D 13/00 F16K 1/36 F16K 1/42

F16K 31/10	ICE CAPTURING FILTER DEVICE, AND	TORRES, Glenn William
F16K 31/06	METHOD OF USE	SZCZUDLAK, Jacob Ryan
F24F 13/10	(73) Pall Corporation	KEITH, William Preston
(11) EP3998210	(72) BROWN, Nicholas W.	LUU, Tin Anh
(21) EP21158207.7	(31) 202016906595	LEWIS, Morgan Ashley
(47) 13.09.2023	(32) 19.06.2020	KREUTZTRAGER, Keith Charles
(22) 19.02.2021	(33) United States of America	GUZMAN, Juan Carlos
(54) VALVE APPARATUS FOR	(51) B64D 37/00	TOOMEY, Jonathan Edward
CONTROLLING A FLUID FLOW	B64D 37/32	(31) 202117405509
THROUGH A DUCT OR OPENING OF	F02C 7/22	202163150352 P
AN AIR CONDITIONING SYSTEM OF	(11) EP3925888	(32) 18.08.2021
AN AIRCRAFT	(21) EP21172217.8	17.02.2021
(73) Lilium eAircraft GmbH	(47) 13.09.2023	(33) United States of America
(72) GAILE, Alfred	(22) 05.05.2021	United States of America
DIETRICH, Axel	(54) AIRCRAFT FUEL ICE CAPTURING	(51) B64G 1/42
(51) B64D 13/06	FILTER HOUSING, AIRCRAFT FUEL	B64G 1/22
F04D 25/02	ICE CAPTURING FILTER DEVICE, AND	H02G 11/02
(11) EP3845456	METHOD OF USE	H05K 9/00
(21) EP20218003.0	(73) Pall Corporation	B64G 1/40
(47) 13.09.2023	(72) BROWN, Nicholas W.	(11) EP3522318
(22) 31.12.2020	FERNANDES, Luiz Claudio Vieira	(21) EP16917778.9
(54) TWO-WHEEL AIR CYCLE MACHINE	CUSIMANO, David J.	(47) 13.09.2023
(73) Hamilton Sundstrand Corporation	(31) 202016906627	(87) JP2016089213
(72) COLSON, Darryl A.	(32) 19.06.2020	05.04.2018
MERRITT, Brent J.	(33) United States of America	(22) 29.12.2016
(31) 202016732754	(51) B64D 39/02	(54) CABLE WRAP MECHANISM
(32) 02.01.2020	(11) EP3889050	(73) Mitsubishi Electric Corporation
(33) United States of America	(21) EP20217050.2	(72) KAWAMURA, Shunichi
(51) B64D 27/02	(47) 13.09.2023	(31) 2016190587
B64D 27/24	(22) 23.12.2020	(32) 29.09.2016
F01D 11/20	(54) ASSISTED REFUELING BOOM	(33) Japan
(11) EP3421369	ACTUATOR	(51) B64G 1/58
(21) EP18179873.7	(73) The Boeing Company	B64G 1/22
(47) 13.09.2023	(72) HINSON, Kimberly A.	(11) EP4146545
(22) 26.06.2018	JANG, Jung Soon	(21) EP22710636.6
(54) PROPULSION SYSTEM FOR AN	LAWSON, Blain A.	(47) 13.09.2023
AIRCRAFT	JACOBUS, Christopher M.	(87) EP2022056576
(73) General Electric Company	(31) 202016835962	26.01.2023
(72) GANSLER, Michael Thomas	(32) 31.03.2020	(22) 14.03.2022
HON, Robert Charles	(33) United States of America	(54) MANUFACTURING METHOD OF A
(31) 201715639200	(51) B64D 39/06	SPACECRAFT INCLUDING A MARKING
(32) 30.06.2017	F16L 37/00	OF A SURFACE
(33) United States of America	(11) EP2734446	(73) Airbus Defence and Space SAS
(51) B64D 27/26	(21) EP12817415.8	Airbus Defence and Space GmbH
(11) EP3114030	(47) 13.09.2023	(72) MOTTAZ, Jean-François
(21) EP15707251.3	(87) US2012047556	SUESS, Manuela
(47) 13.09.2023	31.01.2013	OBRECHT, Verena
(87) US2015017267	(22) 20.07.2012	(31) 21306028
11.09.2015	(54) APPARATUS FOR AN AERIAL	(32) 22.07.2021
(22) 24.02.2015	REFUELING SYSTEM	(33) European Patent Office (EPO)
(54) ENGINE PYLON STRUCTURE	(73) Cobham Mission Systems Davenport	(51) B65B 1/06
(73) MRA Systems, LLC	LSS Inc.	B65B 1/08
(72) WOOLLEY, Allen Madsen	(72) PEAKE, Steven, C.	B65B 1/32
CLEGG, Brian Kelby	(31) 201113188716	B65B 1/34
JUST, Michael Scott	(32) 22.07.2011	B65B 19/34
PATEL, Rameshchandra Dahyabhai	(33) United States of America	B65B 37/02
(31) 201414196570	(51) B64G 1/40	B65B 37/04
(32) 04.03.2014	F02K 9/60	B65B 37/08
(33) United States of America	(11) EP4046915	(11) EP4015399
(51) B64D 37/00	(21) EP22157057.5	(21) EP21213706.1
B01D 29/90	(47) 13.09.2023	(47) 13.09.2023
B64D 37/32	(22) 16.02.2022	(22) 10.12.2021
(11) EP3925889	(54) COMPOSITE TANKS FOR REUSABLE	(54) LOADER ASSEMBLY FOR LONG
(21) EP21172247.5	LAUNCH VEHICLES AND METHOD OF	PASTA WITH VIBRATING DESCENDER
(47) 13.09.2023	FABRICATING THEREOF	(73) CYBORGLINE SA
(22) 05.05.2021	(73) The Boeing Company	(72) PIAZZAROLI, Massimo
(54) AIRCRAFT FUEL ICE CAPTURING	(72) EMBLER, Jonathan David	(31) 202000031193
FILTER HOUSING, AIRCRAFT FUEL	NICHOLS, John Matthew	(32) 17.12.2020



(33) Italy	(11) EP3871986	(33) Italy
(51) B65B 1/16	(21) EP21159772.9	(51) B65B 29/02
B65B 9/20	(47) 13.09.2023	B65B 57/02
B65B 31/04	(22) 26.02.2021	A47J 42/40
B65B 39/00	(54) WRAPPING MACHINE WITH A	(11) EP3659931
(11) EP4089017	ROTARY PLATFORM	(21) EP18837229.6
(21) EP21382449.3	(73) MITEC S.r.l. con unico socio	(47) 13.09.2023
(47) 13.09.2023	(72) PAGLIARANI, Imerio	(87) IB2018055585
(22) 14.05.2021	(31) 202000004228	31.01.2019
(54) VERTICAL PACKAGING MACHINE	(32) 28.02.2020	(22) 26.07.2018
(73) Ulma Packaging, S.Coop.	(33) Italy	(54) AUTOMATIC GROUND-COFFEE
(72) OTXOA-AIZPURUA CALVO, Alberto	(51) B65B 21/06	CAPSULE MANUFACTURING
AYALA MARTÍN, Maitane	B41J 3/407	MACHINE
(51) B65B 5/08	B65B 21/18	(73) ATOM Xquare Limited
B65B 35/30	B65B 35/36	(72) LUI, Ho Leung
B65B 65/00	B65B 61/20	(31) 201711193648
B65G 1/137	B65B 61/26	17107554
B65G 37/02	B65C 9/04	(32) 24.11.2017
B65G 54/02	B65C 9/06	28.07.2017
(11) EP4053025	B65B 61/02	(33) China
(21) EP21160398.0	B65B 61/14	Hong Kong
(47) 13.09.2023	(11) EP3689761	(51) B65B 31/02
(22) 03.03.2021	(21) EP19207468.0	B29B 13/02
(54) A PACKAGING PLANT AND A METHOD	(47) 13.09.2023	B29C 51/42
FOR PACKAGING PRODUCTS	(22) 06.11.2019	B65B 31/04
(73) Fameccanica.Data S.p.A.	(54) DEVICE AND METHOD FOR	B65B 47/00
(72) D'APONTE, Francesco	HANDLING AND / OR PACKAGING	B65B 51/14
GUALTIERI, Diego	ARTICLES	B65B 61/00
ANTONIOLI, Matteo	(73) Kronen Aktiengesellschaft	B65B 61/06
(51) B65B 9/06	(72) SCHWARZ, Helmut	B65B 7/16
B65B 61/00	KIRZINGER, Johannes	B65B 9/04
(11) EP4023561	(31) 102018131988	B65B 11/52
(21) EP20931110.9	(32) 12.12.2018	B65D 75/58
(47) 13.09.2023	(33) Germany	B65D 81/20
(87) JP2020016594	(51) B65B 25/14	B65B 25/06
21.10.2021	(11) EP3947165	B65D 75/30
(22) 15.04.2020	(21) EP20723915.3	B65D 75/32
(54) METHOD AND APPARATUS	(47) 13.09.2023	B65D 77/20
FOR MANUFACTURING PILLOW	(87) FI2020050197	B65B 51/10
PACKAGING BODY	01.10.2020	(11) EP3446989
(73) Corelex Shin-Ei Co., Ltd.	(22) 26.03.2020	(21) EP18173294.2
(72) KUROSAKI Satoshi	(54) METHOD FOR PACKING A COIL	(47) 13.09.2023
(51) B65B 9/213	OR ROLL, COIL OR ROLL PACKING	(22) 18.05.2018
A61L 2/20	ARRANGEMENT, AND COIL OR ROLL	(54) PACKAGING MACHINE FOR
B65B 55/10	PACKING SYSTEM	PRODUCING MULTI-LAYER
A61L 2/18	(73) Pesmel OY	PACKAGING
B65B 51/30	(72) MANNILA, Rami	(73) GEA Food Solutions Germany GmbH
B65B 55/02	LUHTALA, Juha	(72) FEISEL, Jörg
(11) EP3363473	(31) 20195227	(31) 102017208665
(21) EP18157308.0	(32) 26.03.2019	(32) 22.05.2017
(47) 13.09.2023	(33) Finland	(33) Germany
(22) 19.02.2018	(51) B65B 29/02	(51) B65B 35/52
(54) A STERILIZATION SYSTEM FOR	B65B 29/04	B65G 57/30
A MACHINE MANUFACTURING	B65B 51/10	(11) EP3851390
CONTAINERS FOR POURABLE	(11) EP4051596	(21) EP21159916.2
FOODSTUFFS	(21) EP20796659.9	(47) 13.09.2023
(73) IPI S.r.l.	(47) 13.09.2023	(22) 29.01.2018
(72) BIRELLO, Fabio	(87) IB2020059804	(54) METHOD FOR STACKING BLISTER
CRISTOFORI, Alessandro	06.05.2021	PACKAGES
VENTURA, Maurizio	(22) 19.10.2020	(73) Remedi Technology Holdings, LLC
VITALI, Antonio	(54) UNIT FOR OVER-WRAPPING FILTER	(72) ARCHER, Bobby O.
ZANETTI, Federico	BAGS FOR INFUSION PRODUCTS	DUNN, Bruce S.
NEGRINI, Stefano	AND CORRESPONDING METHOD	BOHLMANN, Jan
(31) 201700018507	(73) I.M.A. Industria Macchine Automatiche	(31) 201762517234 P
(32) 20.02.2017	S.p.A.	201762451417 P
(33) Italy	(72) RIVOLA, Sauro	(32) 09.06.2015
(51) B65B 11/04	(31) 201900019812	27.01.2017
	(32) 28.10.2019	(33) United States of America

United States of America	B65B 61/22	(21) EP19839828.1
(51) B65C 9/18	(11) EP3908528	(47) 13.09.2023
(11) EP4001140	(21) EP19842759.3	(87) JP2019025982
(21) EP21199300.1	(47) 13.09.2023	30.01.2020
(47) 13.09.2023	(87) IB2019061435	(22) 28.06.2019
(22) 28.09.2021	16.07.2020	(54) PAPER CONTAINER
(54) VACUUM ASSISTED TURNTABLE UNIT FOR A LABELLING MACHINE	(22) 30.12.2019	(73) Nippon Paper Industries Co., Ltd.
(73) Krones AG	(54) METHOD FOR PACKAGING TILES AND PACKAGING OF TILES	(72) NAKAMURA, Kouya
(72) BAUMGARTNER, Michael	(73) SACMI TECH S.p.A.	ONOMURA, Kazuhide
MEISSNER, Soeren	(72) BARDI, Maurizio	ASOI, Eiichi
(31) 202020106667 U	(31) 201900000376	YONEDA, Yoshitaka
(32) 20.11.2020	(32) 10.01.2019	(31) 2018138075
(33) Germany	(33) Italy	(32) 23.07.2018
(51) B65D 1/02	(51) B65D 5/38	(33) Japan
(11) EP2927144	B65D 85/10	(51) B65D 6/18
(21) EP13860535.7	(11) EP4007726	B65D 25/00
(47) 13.09.2023	(21) EP20764156.4	(11) EP4059860
(87) JP2013081643	(47) 13.09.2023	(21) EP21163179.1
12.06.2014	(87) IB2020057248	(47) 13.09.2023
(22) 25.11.2013	04.02.2021	(22) 17.03.2021
(54) RESIN VESSEL	(22) 31.07.2020	(54) STACKABLE CONTAINER WITH FOLDABLE WALLS
(73) Suntory Holdings Limited	(54) PACK FOR SMOKING ARTICLES WITH A SLIDING OPENING	(73) Euro Pool System International B.v.
(72) KIRA Go	(73) G.D SOCIETA' PER AZIONI	(72) Roelofs, Christian
KIKUCHI Daisuke	(72) POLLONI, Roberto	(51) B65D 8/00
(31) 2012264606	PARADISO, Luca	B65D 81/20
(32) 03.12.2012	FEDERICI, Luca	B65D 1/02
(33) Japan	(31) 201900013647	B65D 85/72
(51) B65D 5/02	(32) 01.08.2019	B65D 1/42
B65D 5/10	(33) Italy	B65D 79/00
(11) EP3572341	(51) B65D 5/54	(11) EP3621888
(21) EP19168251.7	B65D 5/02	(21) EP18799279.7
(47) 13.09.2023	(11) EP4071071	(47) 13.09.2023
(22) 01.04.2015	(21) EP22167036.7	(87) US2018031782
(54) TAMPER-EVIDENT CONTAINER AND PROCESS FOR MAKING THE SAME	(47) 13.09.2023	15.11.2018
(73) I.G.B. S.r.l.	(22) 06.04.2022	(22) 09.05.2018
(72) BRESSAN, Michel	(54) ONE-PIECE BLANK FOR A CUBOID FOLDING BOX AND METHOD OF FOLDING A CUBOID FOLDING BOX	(54) HOT FILL CONTAINER WITH CORNER SUPPORT COLUMNS
(31) MI20150141	(73) TRAPO AG	(73) The Coca-Cola Company
MI20140812	(72) LENFERS, Daniel	(72) KLOK, Jeffrey
(32) 03.02.2015	KLIER, Martin	STEWART, Sterling Lane
05.05.2014	(31) 21167549	GOVINDARAJAN, Venkat
(33) Italy	(32) 09.04.2021	SHI, Feng
Italy	(33) European Patent Office (EPO)	(31) 201762504076 P
(51) B65D 5/20	(51) B65D 5/56	(32) 10.05.2017
B65D 5/24	B65D 5/64	(33) United States of America
B65D 5/68	B65D 65/46	(51) B65D 21/02
(11) EP4071067	B65D 81/38	B65D 55/08
(21) EP22165890.9	(11) EP3873819	B65D 71/50
(47) 13.09.2023	(21) EP19877815.1	(11) EP3868681
(22) 31.03.2022	(47) 13.09.2023	(21) EP21156205.3
(54) PACKAGING	(87) US2019059539	(47) 13.09.2023
(73) Messerle GmbH	07.05.2020	(22) 10.02.2021
(72) Messerle, Heiner	(22) 01.11.2019	(54) SECURE CONTAINER COVER
(31) 752021	(54) TEMPERATURE INSULATED PACKAGING SYSTEMS AND RELATED METHODS	(73) Oregon Precision Industries Inc. d.b.a. Paktech
(32) 08.04.2021	(73) Life Technologies Corporation	(72) Borg, Zakary James
(33) Austria	(72) MADANAGOPAL, Arunkumar	Mellor Jr., Ronald Lee
(51) B65D 5/32	BARNITZ, Eric	(31) 202017124257
B65D 5/34	(31) 201862755071 P	202062975145 P
B65D 5/50	(32) 02.11.2018	(32) 16.12.2020
B65D 61/00	(33) United States of America	11.02.2020
B65D 61/02	(51) B65D 5/74	(33) United States of America
B65D 81/05	B65D 5/06	United States of America
B65B 11/00	(11) EP3828095	(51) B65D 33/24
B65B 11/58		B65D 33/16
B65B 23/20		(11) EP3697699
B65B 43/14		(21) EP18868227.2

(47) 13.09.2023	02.07.2020	B65D 71/02
(87) US2018056122 25.04.2019	(22) 10.12.2019	B65D 81/05
(22) 16.10.2018	(54) TAMPER INDICATING CLOSURE SYSTEM	D05B 23/00
(54) APPARATUS FOR CLOSING A CONTAINER AND RELATED CONTAINER	(73) Bericap Kapak Sanayi Anonim Sirketi	(11) EP3666680
(73) The Hillshire Brands Company	(72) KUTLUG, Gurer	(21) EP19215498.7
(72) RESH, Mary, Lou	(31) 201820664	(47) 13.09.2023
CZARNY, Jeffrey, Anthony	(32) 27.12.2018	(22) 12.12.2019
(31) 201762574354 P	(33) Türkiye	(54) GLASS BODY LAYER, GLASS BODY BUNDLE AND PACKAGING METHOD
(32) 19.10.2017	(51) B65D 47/24	(73) SCHOTT AG
(33) United States of America	B65D 47/32	(72) SPARSCHUH, Georg Helmut
(51) B65D 41/04	(11) EP4039612	(31) 102018221782
B65D 41/34	(21) EP22154428.1	(32) 14.12.2018
B65D 45/00	(47) 13.09.2023	(33) Germany
(11) EP3374280	(22) 01.02.2022	(51) B65D 63/00
(21) EP16865043.0	(54) IMPROVED SPOUT INTENDED TO BE ATTACHED TO THE NECK OF A CONTAINER	B65D 63/10
(47) 13.09.2023	(73) Société Lorraine de Capsules Metalliques - Manufacture de Bouchage	(11) EP3998219
(87) US2016061425 18.05.2017	(72) Mélan-Moutet, Mathias	(21) EP20841650.3
(22) 10.11.2016	(31) 2107127	(47) 13.09.2023
(54) COMPOSITE CLOSURE WITH SUPPORT BRACE AND METHOD FOR MAKING THE SAME	2101035	(87) JP2020035258 24.03.2022
(73) Tecnocap, LLC	(32) 01.07.2021	(22) 17.09.2020
(72) SANTINI, Federico	03.02.2021	(54) BINDING TOOL
(31) 201562256453 P	(33) France	(73) Meilleur Co., Ltd.
201562253328 P	France	(72) YAMANE Tsurashi NAKAGAWA Kaori OCHIBE Junko
(32) 17.11.2015	(51) B65D 55/16	(51) B65D 65/14
10.11.2015	(11) EP3749585	B65D 65/42
(33) United States of America	(21) EP18889877.9	(11) EP4028335
United States of America	(47) 13.09.2023	(21) EP20751461.3
(51) B65D 41/26	(87) CA2018051468 20.06.2019	(47) 13.09.2023
(11) EP3992104	(22) 19.11.2018	(87) US2020043009 22.04.2021
(21) EP21205151.0	(54) CLOSURE CAP FOR A CONTAINER	(22) 22.07.2020
(47) 13.09.2023	(73) Husky Injection Molding Systems Ltd.	(54) FLEXIBLE PACKAGING WITH INTERNAL RELEASE
(22) 28.10.2021	(72) NAUMANN, Tobias	(73) Sonoco Development, Inc.
(54) BOTTLE ASSEMBLY	CUNCHE, Jean-Michel	(72) HUFFER, Scott, William
(73) Henkel AG & Co. KGaA	HABICH, Jaroslav	(31) 201916654574
(72) Sterling, Daniel Peter	(31) 201762599140 P	(32) 16.10.2019
Colacioppo, Keith Jon	(32) 15.12.2017	(33) United States of America
Geberzahn, Rainer	(33) United States of America	(51) B65D 71/00
Bull, Nicholas Robert	(51) B65D 55/16	(11) EP3919409
(31) 202016949472	B65D 41/34	(21) EP21174869.4
(32) 30.10.2020	(11) EP4061736	(47) 13.09.2023
(33) United States of America	(21) EP20804314.1	(22) 20.05.2021
(51) B65D 47/08	(47) 13.09.2023	(54) ARRANGEMENT FOR SECURING PLATE-SHAPED MATERIAL
B29C 45/16	(87) EP2020082418 27.05.2021	(73) Felix Waldner GmbH
B65D 55/02	(22) 17.11.2020	(72) WAGNER, Hugo
(11) EP4054948	(54) CONTAINER CLOSURE	(31) 102020206886
(21) EP19801670.1	(73) ALPLA Werke Alwin Lehner GmbH & Co. KG	(32) 03.06.2020
(47) 13.09.2023	(72) KAINZ, Andreas	(33) Germany
(87) EP2019025388 14.05.2021	DANGL, Matthias	(51) B65D 75/58
(22) 07.11.2019	(31) 6712020	B05B 11/00
(54) CLOSURE DEVICE	16952019	(11) EP3412598
(73) Aptar Freyung GmbH	14672019	(21) EP18176018.2
(72) KÖNIGSEDER, Bruno	(32) 05.06.2020	(47) 13.09.2023
FREY, Daniel	23.12.2019	(22) 05.06.2018
RÜCKERT, Andreas	20.11.2019	(54) A FLUID SUBSTANCE CONTAINER
(51) B65D 47/12	(33) Switzerland	(73) Lumson S.p.A.
B65D 51/18	Switzerland	(72) MORETTI, Matteo
B65D 55/02	Switzerland	(31) 201700063184
(11) EP3902752	(51) B65D 57/00	(32) 08.06.2017
(21) EP19872272.0	B65D 85/20	(33) Italy
(47) 13.09.2023	B65D 85/30	(51) B65D 75/58
(87) TR2019051052	B65D 85/62	

B65D 47/08	(73) Euro-Caps Holding B.V.	(11) EP3816066
B65D 41/34	(72) HELD, Micha Alexander	(21) EP18928365.8
(11) EP3887278	KAY, Anthony	(47) 13.09.2023
(21) EP19816471.7	(31) 201801564	(87) JP2018028651
(47) 13.09.2023	(32) 07.03.2018	06.02.2020
(87) NL2019050768	(33) South Africa	(22) 31.07.2018
04.06.2020	(51) B65D 85/804	(54) BAG MATERIAL AND CRUSHED
(22) 21.11.2019	(11) EP3732116	STONE PLACEMENT METHOD USING
(54) A SPOUTED POUCH PROVIDED WITH	(21) EP18816092.3	BAG MATERIAL
A CLOSURE DEVICE	(47) 13.09.2023	(73) Kyowa Co., Ltd.
(73) Scholle IPN IP B.V.	(87) EP2018085237	Sumitomo Corporation
(72) FIERE, Jeroen Pieter	04.07.2019	(72) KAJIWARA, Koji
(31) 2022097	(22) 17.12.2018	KAWAMURA, Hironori
(32) 29.11.2018	(54) SYSTEM FOR FLEXIBLE FOOD OR	OGAWA, Yoshihiro
(33) Netherlands	BEVERAGE PACKS	MATSUO, Shigeru
(51) B65D 81/03	(73) Société des Produits Nestlé S.A.	(51) B65D 88/52
(11) EP4082934	(72) NOTH, André	B65D 88/12
(21) EP22158806.4	JARISCH, Christian	E04B 1/344
(47) 13.09.2023	TALON, Christian	B65D 90/02
(22) 25.02.2022	(31) 17210605	B65D 90/00
(54) CORRUGATED ALTERNATING	(32) 27.12.2017	(11) EP3681823
DISPLACEMENT CUSHION	(33) European Patent Office (EPO)	(21) EP18865573.2
(73) Sonoco Development, Inc.	(51) B65D 88/12	(47) 13.09.2023
(72) Moore, Clifton Thomas	(11) EP3792200	(87) MY2018050067
(31) 202117199058	(21) EP19799986.5	18.04.2019
(32) 11.03.2021	(47) 13.09.2023	(22) 10.10.2018
(33) United States of America	(87) CN2019086415	(54) COLLAPSIBLE CONTAINER
(51) B65D 81/03	14.11.2019	(73) ICF SA
B65D 81/05	(22) 10.05.2019	(72) KYTE, Eric Alfred
(11) EP3611114	(54) TANK CONTAINER	(31) PI2017001509
(21) EP19190929.0	(73) CIMC SAFEWAY TECHNOLOGIES CO.,	(32) 11.10.2017
(47) 13.09.2023	LTD.	(33) Malaysia
(22) 09.08.2019	(72) Li, Lang	(51) B65D 90/62
(54) INFLATABLE PACKAGE FOR A BOTTLE	ZHU, Hongjun	B65D 90/22
(73) Kunshan Airbag Packing Corp	MENG, Qingguo	E05B 83/02
(72) LIAO, Kao-Hsiung	Ji, Guoxiang	E05B 63/00
LIAO, Ping-Yuan	CHEN, Xiaochun	E05C 3/04
(31) 107128235	SHEN, Fanjing	E05C 7/00
(32) 13.08.2018	CHEN, Long	B65D 90/00
(33) Taiwan, Chinese Taipei	SHI, Jianrong	(11) EP3737810
(51) B65D 85/804	WANG, Haiping	(21) EP18900451.8
(11) EP3873826	(31) 201810451332	(47) 13.09.2023
(21) EP19797264.9	(32) 11.05.2018	(87) DK2018050422
(47) 13.09.2023	(33) China	18.07.2019
(87) EP2019079659	(51) B65D 88/12	(22) 21.12.2018
07.05.2020	H02S 20/20	(54) LOCKING SYSTEM AND USE
(22) 30.10.2019	B65D 88/74	THEREOF
(54) CAPSULE WITH OPENING UNIT	B65D 90/00	(73) Mavako APS
(73) sântis packaging ag	(11) EP3862293	(72) KONGSHAMMER, Martin
Euro-Caps Holding B.V.	(21) EP19869658.5	(31) PA201870506
(72) BUGAJEW, Peter	(47) 13.09.2023	PA201870013
KICAJ, Avni	(87) ES2019070397	(32) 27.07.2018
STIEGER, Paul	09.04.2020	10.01.2018
KRONI, Azem	(22) 07.06.2019	(33) Denmark
KAY, Anthony	(54) ELECTRICITY SUPPLY DEVICE FOR	Denmark
(31) 102018218592	THE TRANSPORT OF CONTAINERS	(51) B65F 1/06
(32) 30.10.2018	SUCH AS REFRIGERATOR	(11) EP3538454
(33) Germany	CONTAINERS	(21) EP17797923.4
(51) B65D 85/804	(73) SOLUCIONES TECNICAS	(47) 13.09.2023
(11) EP3762313	INTERMODALES, S.L.	(87) EP2017078764
(21) EP19721158.4	(72) AZNAR MARTINEZ, Jesús	17.05.2018
(47) 13.09.2023	(31) PCT/ES2018/070631	(22) 09.11.2017
(87) NL2019050144	(32) 01.10.2018	(54) DEVICE FOR SUBDIVIDING A
12.09.2019	(33) World Intellectual Property Office (WIPO)	SURFACE INTO PARTIAL SURFACES
(22) 07.03.2019	(51) B65D 88/22	(73) Druml, Britta
(54) CAPSULES FOR CONTAINING	B66C 1/12	(72) Druml, Britta
A SUBSTANCE FROM WHICH A	E02D 15/10	(31) 600072016
BEVERAGE CAN BE PRODUCED	B65D 88/16	(32) 10.11.2016

(33) Austria	(11) EP3434625	(22) 20.11.2018
(51) B65F 1/14	(21) EP17769759.6	(54) BELT ATTACHMENT FOR BUCKET ELEVATORS
(11) EP3519326	(47) 13.09.2023	(73) Tarma Bulk Solids Solutions, S.L.
(21) EP17784213.5	(87) JP2017006270	(72) GARCIA FLOREN, Jesus
(47) 13.09.2023	28.09.2017	(51) B65G 17/44
(87) EP2017074670	(22) 21.02.2017	B65G 17/46
05.04.2018	(54) PROJECTION INSTRUCTION DEVICE, PARCEL SORTING SYSTEM, AND PROJECTION INSTRUCTION METHOD	B65G 21/20
(22) 28.09.2017	(73) Panasonic Intellectual Property Management Co., Ltd.	(11) EP3439992
(54) TROLLEY, WASTE MODULE AND SYSTEM FOR COLLECTING WASTE	(72) MORIYAMA Takaaki	(21) EP17779719.8
(73) Airbus Operations GmbH	OHTSUBO Shohji	(47) 13.09.2023
Airbus SAS	SUZUKI Akihiro	(87) US2017026080
Airbus Americas, Inc.	IDERA Takaaki	12.10.2017
(72) REISS, Matthias	ISHIHARA Takeshi	(22) 05.04.2017
JOURDAN, Nicolas	(31) 2016059270	(54) MAGNETIC CONVEYOR BELT MODULE
SCHLIWA, Ralf	(32) 23.03.2016	(73) Laitram, L.L.C.
DE GUTZ, Donald	(33) Japan	(72) ZAMBRANO, Krissie K.
REIS, Gabriel Ribeiro	(51) B65G 11/20	BANNERMAN, Adam E.
PASSOS IKUNO, Denise Renata	B65G 37/00	DE ST. GERMAIN, John
MAKI, Liana Shintate	B65G 47/96	(31) 201662397590 P
OMAE, Tadeu Kendy de Oliveira	B65G 47/44	201662318836 P
OTSUKA, Lucas Marques	B65G 47/52	(32) 21.09.2016
DE ANTONIO, Lucas Neumann	B65G 47/64	06.04.2016
(31) 201615281133	B65G 17/24	(33) United States of America
(32) 30.09.2016	B65G 17/40	United States of America
(33) United States of America	B65G 47/244	(51) B65G 21/20
(51) B65G 1/04	B65G 11/06	B03C 1/247
B65G 1/06	B65G 47/53	B03C 1/23
(11) EP3737623	(11) EP3535206	(11) EP3820795
(21) EP19700145.6	(21) EP17867106.1	(21) EP19745466.3
(47) 13.09.2023	(47) 13.09.2023	(47) 13.09.2023
(87) EP2019050228	(87) US2017058021	(87) US2019040774
18.07.2019	11.05.2018	16.01.2020
(22) 07.01.2019	(22) 24.10.2017	(22) 08.07.2019
(54) CONTAINER HANDLING VEHICLE WITH DIRECT DRIVE ON LIFTING AXLE(S), ASSOCIATED METHODS AND SYSTEM	(54) DIVERT CHUTES IN SORTING CONVEYOR SYSTEMS	(54) SYSTEMS AND METHODS FOR IMPROVING THE STABILITY OF NON-FERROUS METALS ON A CONVEYOR
(73) AUTOSTORE TECHNOLOGY AS	(73) Laitram, L.L.C.	(73) Novelis Inc.
(72) FJELDHEIM, Ivar	(72) WARGO, Stephen G.	(72) KOSMICKI, Michael R.
BEKKEN, Børge	MCNEW III, David F.	THAKUR, Adwait A.
AUSTRHEIM, Trond	(31) 201615344065	(31) 201862695254 P
(31) 20180031	(32) 04.11.2016	(32) 09.07.2018
(32) 09.01.2018	(33) United States of America	(33) United States of America
(33) Norway	(51) B65G 15/08	(51) B65G 23/06
(51) B65G 1/133	B65G 15/60	F16H 7/02
B65G 49/06	B65G 45/26	(11) EP3097030
B65G 1/14	B65G 45/18	(21) EP15740222.3
(11) EP3810529	B65G 45/22	(47) 13.09.2023
(21) EP19742934.3	B65G 45/24	(87) US2015012385
(47) 13.09.2023	(11) EP3584201	30.07.2015
(87) IB2019055147	(21) EP18754889.6	(22) 22.01.2015
26.12.2019	(47) 13.09.2023	(54) SNAP-ON POSITION LIMITER FOR A CONVEYOR BELT
(22) 19.06.2019	(87) JP2018002050	(73) Laitram, L.L.C.
(54) AUTOMATED SYSTEM AND METHOD FOR THE STORAGE AND MOVEMENT OF HEAVY MATERIAL	23.08.2018	(72) BATCHELDER, Jeff
(73) OFFICINE MISTRELLO S.R.L.	(22) 24.01.2018	DEGROOT, Michael Hendrik
(72) MISTRELLO, Marco	(54) AIR FLOATING BELT CONVEYOR APPARATUS	OONK, Friso Antonius Maria
ALDEGHERI, Matteo	(73) Kawasaki Jukogyo Kabushiki Kaisha	WOLTERS, Laurentius G.J.
BALDO, Nicola	(72) ODAGIRI, Takashi	MOL, Edward T.
(31) 201800006467	(31) 2017025634	MA, Ruizhe
(32) 19.06.2018	(32) 15.02.2017	MELLINK, Roel Marcel
(33) Italy	(33) Japan	HULSHOF, Gerko
(51) B65G 1/137	(51) B65G 17/12	(31) 201462061346 P
G03B 21/14	F16G 3/06	201462006427 P
B07C 7/00	(11) EP3656704	201461931058 P
B07C 3/14	(21) EP18382832.6	(32) 08.10.2014
	(47) 13.09.2023	02.06.2014

24.01.2014	(33) Italy	201313797731
(33) United States of America	(51) B65G 59/02	(32) 14.03.2013
United States of America	B65H 3/32	13.03.2013
United States of America	B65G 57/112	12.03.2013
(51) B65G 29/00	B65H 5/02	12.03.2013
B65C 9/06	B65H 29/18	12.03.2013
B65G 47/244	B65H 29/46	(33) United States of America
B65G 47/84	(11) EP3778447	United States of America
G01N 21/90	(21) EP19191220.3	United States of America
(11) EP4021830	(47) 13.09.2023	United States of America
(21) EP20775009.2	(22) 12.08.2019	United States of America
(47) 13.09.2023	(54) MACHINE FOR UNSTACKING	(51) B65H 19/18
(87) EP2020076677	OBJECTS	(11) EP3628615
08.04.2021	(73) L&P Swiss Holding GmbH	(21) EP19198384.0
(22) 24.09.2020	(72) MYERS, Terrance L.	(47) 13.09.2023
(54) DEVICE AND PROCESS FOR THE	KANTOCI, Kruno	(22) 19.09.2019
ORIENTATION OF CONTAINERS	(51) B65G 65/48	(54) APPARATUS AND METHOD FOR
(73) Antares Vision S.p.A.	F24B 13/04	SPLICING MATERIAL ROLLS
(72) MANIACI, Gianmarco	A01F 25/20	(73) Curt G. Joa, Inc.
(31) 201900017672	C10J 3/50	(72) Wakefield, Ricky A
(32) 01.10.2019	(11) EP3560865	Follen, Sean P
(33) Italy	(21) EP19171473.2	Dodelin, Donald R
(51) B65G 47/53	(47) 13.09.2023	Fritz, Jeffrey W
B65G 47/88	(22) 26.04.2019	(31) 201962868293 P
B65G 15/10	(54) DISCHARGE DEVICE FOR SMALL	201862733349 P
(11) EP3802382	SIZED BULK MATERIAL AND	(32) 28.06.2019
(21) EP19752423.4	COMBUSTION DEVICE WITH SUCH A	19.09.2018
(47) 13.09.2023	DISCHARGE DEVICE	(33) United States of America
(87) EP2019064443	(73) Fröling Heizkessel- Und Behälterbau	United States of America
12.12.2019	Gesellschaft M.B.H	(51) B65H 23/00
(22) 04.06.2019	(72) Hutterer, Ernst	B65H 26/08
(54) CONVEYING APPARATUS AND	(31) 18169576	(11) EP3885295
METHOD OF CONVEYING TAMPON	(32) 26.04.2018	(21) EP21156639.3
APPLICATORS	(33) European Patent Office (EPO)	(47) 13.09.2023
(73) Ruggli Projects AG	(51) B65H 3/12	(22) 11.02.2021
(72) SCHULER, Samuel	B07C 1/04	(54) BASE MATERIAL CONVEYING DEVICE,
ZUDDAS, Antonello	B65H 3/46	PRINTING APPARATUS, COATING
(31) 7132018	B65H 3/52	APPARATUS AND BASE MATERIAL
(32) 05.06.2018	B65H 3/54	ROLL DIAMETER OBTAINING METHOD
(33) Switzerland	B65H 1/02	(73) SCREEN Holdings Co., Ltd.
(51) B65G 47/88	B65H 7/02	(72) KAMIGIKU, Takashi
B65G 47/64	(11) EP3176114	(31) 2020052841
(11) EP3757044	(21) EP16197418.3	(32) 24.03.2020
(21) EP19290047.0	(47) 13.09.2023	(33) Japan
(47) 13.09.2023	(22) 11.03.2014	(51) B65H 26/02
(22) 27.06.2019	(54) SYSTEM AND METHOD OF	B29C 48/355
(54) STOPPER, CONVEYOR, TROLLEY	AUTOMATIC FEEDER STACK	B29C 48/92
AND TRANSPORTATION SYSTEM	MANAGEMENT	B29C 48/00
(73) Interroll Holding AG	(73) United States Postal Service	B29C 48/21
(72) Loizeau, Antoine	(72) BROWN, John, W.	(11) EP4072983
(51) B65G 47/90	HOUSTON, Edward, F.	(21) EP20816528.2
B65G 57/06	ROMAN, Juan, A.	(47) 13.09.2023
B65G 61/00	SHIU, Leung, M.	(87) EP2020084835
B25J 15/00	MAYHALL, Riley, H.	17.06.2021
B65G 57/00	MCCONNELL, William, P.	(22) 07.12.2020
(11) EP4003885	GOOD, Matthew, G.	(54) MEASURING DEVICE AND
(21) EP20739838.9	HUME, Robert, E.	METHOD FOR DETECTING LOCAL
(47) 13.09.2023	HILLERICH, Thomas, A.	THICKNESSES IN A FILM WEB
(87) IB2020056891	HA, Long, K.	(73) Covestro Intellectual Property GmbH &
28.01.2021	TIMM, Jacob, L.	Co. KG
(22) 22.07.2020	BADRI, Reza	(72) PAULUS, Alexander
(54) HEAD AND STATION FOR PICKING UP	SCHLENDER, Robert, L.	MEYER, Klaus
A GROUP OF PRODUCTS	AUSTIN, Christopher, D.	NICKEL, Joerg
(73) T.M.C. S.p.A.	DICKEY, Darin	HOLTERMANN, Jan
(72) RASI, Michele	(31) 201313827122	(31) 19215539
(31) 201900012939	201313801749	(32) 12.12.2019
(32) 25.07.2019	201313797291	(33) European Patent Office (EPO)
	201313797698	(51) B65H 29/40

B65H 31/36	(54) DRIVE SYSTEM FOR AN ELEVATOR	(73) LM Wind Power A/S
(11) EP4011813	INSTALLATION, ELEVATOR	(72) RASMUSSEN, Kim Ansholm
(21) EP20212415.2	INSTALLATION AND METHOD FOR	GJERLEVSEN, Christian Brøndum
(47) 13.09.2023	MOUNTING A DRIVE ON A SUPPORT	KARSBÆK, Brian
(22) 08.12.2020	ELEMENT OF AN ELEVATOR	BARLEV, Sven
(54) SHEET STACKER COMPRISING A	INSTALLATION	(31) 19177958
SHEET FLIPPING DEVICE AND A	(73) INVENTIO AG	(32) 03.06.2019
SUPPORT DEVICE	(72) D APICE, Alessandro	(33) European Patent Office (EPO)
(73) Canon Production Printing Holding B.V.	GUARNUTO, Luciano	<hr/>
(72) KUYPERS, Hermanus M.	LO JACONO, Romeo	(51) B66C 1/36
HOLTMAN, Lodewijk T.	POLIN, Urs	B64D 1/22
ROSENBOOM, Fabian T.	SCHMITT, Dominik	(11) EP3752445
<hr/>	WANG, Eric	(21) EP19703372.3
(51) B65H 35/00	(31) 19218237	(47) 13.09.2023
B65B 51/06	(32) 19.12.2019	(87) EP2019053496
(11) EP3854737	(33) European Patent Office (EPO)	22.08.2019
(21) EP21150783.5	<hr/>	(2) 13.02.2019
(47) 13.09.2023	(51) B66B 15/04	(54) LOCKING CAM FOR A LOAD
(22) 08.01.2021	(11) EP3652101	HOOK, AND ATTACHMENT DEVICE
(54) TAPING UNIT FOR WETTING GUMMED	(21) EP18720590.1	COMPRISING SUCH A CAM
PAPER TAPE	(47) 13.09.2023	(73) Lace
(73) Pezzotta, Luca	(87) EP2018060687	(72) AUTISSIER, Christophe
Pezzotta, Diego Mario	17.01.2019	MEYNIEL, Guillaume
(72) Pezzotta, Luca	(22) 26.04.2018	SCHMIDT, Yoann
Pezzotta, Diego Mario	(54) DEFLECTION ROLLER IN A FLEXIBLE	(31) 1851214
(31) 202000000544	DRIVE	(32) 14.02.2018
(32) 14.01.2020	(73) ContiTech Antriebssysteme GmbH	(33) France
(33) Italy	(72) GÖSER, Hubert	<hr/>
<hr/>	KUCHARCZYK, Andre	(51) B66C 13/40
(51) B66B 7/06	QUASS, Jan-Henning	B66C 23/68
(11) EP4058390	BROCKE, Stephan	(11) EP3687936
(21) EP20793652.7	(31) 102017212076	(21) EP18781954.5
(47) 13.09.2023	(32) 14.07.2017	(47) 13.09.2023
(87) EP2020079350	(33) Germany	(87) AT2018060224
20.05.2021	<hr/>	04.04.2019
(22) 19.10.2020	(51) B66B 29/00	(22) 25.09.2018
(54) CORD OF AN ELEVATOR BELT	(11) EP3885303	(54) OPERATING DEVICE AND LOADING
HAVING STRANDS FORMED FROM	(21) EP20215119.7	CRANE HAVING AN OPERATING
FILAMENTS HAVING DIFFERENT	(47) 13.09.2023	DEVICE
COATING THICKNESSES	(22) 17.12.2020	(73) Palfinger AG
(73) ContiTech Antriebssysteme GmbH	(54) HANDRAIL SAFETY CONTROL	(72) BERGMAYR, Benjamin
(72) QUASS, Jan-Henning	DEVICE, TRANSPORTATION SYSTEM	HANDLECHNER, Paul
GÖSER, Hubert	AND HANDRAIL SAFETY CONTROL	REISCHAUER, Richard
KUCHARCZYK, Andre	METHOD	(31) 5017817 U
BROCKE, Stephan	(73) Otis Elevator Company	(32) 26.09.2017
(31) 102019217625	(72) CUI, Hai	(33) Austria
(32) 15.11.2019	CHENG, Qing	<hr/>
(33) Germany	FANG, Yi	(51) B66C 13/56
<hr/>	XU, Xingsong	B66C 13/20
(51) B66B 9/08	JIANG, Xinxiang	B66C 23/86
A61G 5/10	CHEN, JiaYing	F15B 11/042
(11) EP3770098	QIAN, ShengJun	F15B 11/044
(21) EP20173474.6	XU, HuaLiang	(11) EP3441348
(47) 13.09.2023	HUANG, ShaoDong	(21) EP17779242.1
(22) 07.05.2020	(31) 202010212251	(47) 13.09.2023
(54) STAIRLIFT AND METHOD FOR	(32) 24.03.2020	(87) JP2017014559
OPERATING SAME	(33) China	12.10.2017
(73) Framo Morat GmbH & Co. KG	<hr/>	(22) 07.04.2017
(72) Kuster, Holger	(51) B66C 1/10	(54) CRANE
Uysal, Bahtiyar	F03D 80/00	(73) Tadano Ltd.
(31) 102019119770	F03D 1/06	(72) MASUDA Naotaka
(32) 22.07.2019	(11) EP3976957	(31) 2016078498
(33) Germany	(21) EP20728782.2	(32) 08.04.2016
<hr/>	(47) 13.09.2023	(33) Japan
(51) B66B 11/00	(87) EP2020065232	<hr/>
(11) EP4077196	10.12.2020	(51) B66F 9/06
(21) EP20824258.6	(22) 02.06.2020	B66F 9/075
(47) 13.09.2023	(54) BULKHEAD FOR A WIND TURBINE	B66F 9/24
(87) EP2020086517	BLADE AND METHOD FOR	G05D 1/02
24.06.2021	INSTALLING A BULKHEAD IN A WIND	(11) EP3924291
(22) 16.12.2020	TURBINE BLADE	(21) EP20703222.8
		(47) 13.09.2023

(87) EP2020052583 20.08.2020	(22) 26.05.2021	(21) EP16778854.6
(22) 03.02.2020	(54) FILLING UNIT FOR FILLING	(47) 13.09.2023
(54) CONVEYOR DEVICE FOR LOAD CARRIER	CONTAINERS OF TWO DIFFERENT	(87) EP2016074316
(73) Filics GmbH	TYPES WITH A LIQUID SUBSTANCE,	22.12.2016
(72) KOLLS, Gregor	IN PARTICULAR WITH A BEVERAGE	(22) 11.10.2016
LUTZER, Johannes Julius	(73) Kosme S.r.l. Unipersonale	(54) METHOD OF MANUFACTURING A
(31) 102019001455	(72) Franceschini, Gianluca	COMPOSITE PART FOR WATCHES
102019001125	(31) 202000013450	(73) CSEM Centre Suisse d'Electronique et
(32) 01.03.2019	(32) 05.06.2020	de Microtechnique SA - Recherche et
15.02.2019	(33) Italy	Développement
(33) Germany	(51) B67D 1/08	(72) LANI, Sébastien
Germany	B67D 3/00	PUGIN, Raphaël
(51) B66F 9/075	G07F 13/06	(31) 15200204
B66F 9/24	(11) EP2396271	(32) 15.12.2015
(11) EP3388387	(21) EP10705477.7	(33) European Patent Office (EPO)
(21) EP18162741.5	(47) 13.09.2023	(51) B81C 1/00
(47) 13.09.2023	(87) US2010023825	B82Y 10/00
(22) 20.03.2018	19.08.2010	B82Y 40/00
(54) INTEGRATION OF MULTIMEDIA	(22) 11.02.2010	G02B 1/118
COMPONENTS INTO THE VEHICLE	(54) BEVERAGE DISPENSE VALVE	H01L 21/3065
NETWORK OF INDUSTRIAL TRUCKS	CONTROLLED BY WIRELESS	H01L 21/308
(73) Jungheinrich Aktiengesellschaft	TECHNOLOGY	(11) EP3334682
(72) WECK, Michael	(73) PepsiCo, Inc.	(21) EP16751476.9
(31) 102017206330	(72) SEGIET, William, W.	(47) 13.09.2023
(32) 12.04.2017	GRAY, Alex, L.	(87) EP2016001387
(33) Germany	UBIDIA, Fernando, A.	23.02.2017
(51) B66F 9/075	STEIN, Aaron, M.	(22) 12.08.2016
B66F 9/24	LEWIS, John, F.	(54) FABRICATION OF NANOSTRUCTURED
(11) EP3567001	(31) 151770 P	SUBSTRATES COMPRISING A
(21) EP19172242.0	(32) 11.02.2009	PLURALITY OF NANOSTRUCTURE
(47) 13.09.2023	(33) United States of America	GRADIENTS ON A SINGLE
(22) 02.05.2019	(51) B81C 1/00	SUBSTRATE
(54) LOAD FORK, INDUSTRIAL TRUCK	(11) EP3456682	(73) Max-Planck-Gesellschaft zur Förderung
AND METHOD FOR OPERATING AN	(21) EP17191236.3	der Wissenschaften e.V.
INDUSTRIAL TRUCK AND A LINE	(47) 13.09.2023	(72) DIAO, Zhaolu
LASER	(22) 15.09.2017	DIRKS, Jan-Henning
(73) Jungheinrich Aktiengesellschaft	(54) SENSOR SYSTEM, SENSOR	SPATZ, Joachim P.
(72) HOFMANN, Alexander	ARRANGEMENT, AND ASSEMBLY	(31) 15002432
SCHMIDT, Michael	METHOD USING SOLDER FOR	(32) 14.08.2015
(31) 102018110915	SEALING	(33) European Patent Office (EPO)
(32) 07.05.2018	(73) TE Connectivity Solutions GmbH	(51) B82Y 15/00
(33) Germany	(72) DRLJACA, Predrag	(11) EP3548882
(51) B67B 3/26	(51) B81C 1/00	(21) EP17808126.1
B65G 47/51	(11) EP3210935	(47) 13.09.2023
B67C 3/00	(21) EP17158193.7	(87) GB2017053564
(11) EP3592688	(47) 13.09.2023	07.06.2018
(21) EP18700048.4	(22) 27.02.2017	(22) 27.11.2017
(47) 13.09.2023	(54) A METHOD OF MANUFACTURING A	(54) FIELD-EFFECT-BASED GAS
(87) EP2018050110	PLURALITY OF THROUGH-HOLES IN A	DETECTOR COMPRISING AN ARENE-
13.09.2018	LAYER OF MATERIAL	FUNCTIONALIZED NANOWIRE AN
(22) 03.01.2018	(73) Cytosurge AG	ARENE-FUNCTIONALIZED NANOWIRE
(54) SYSTEM AND METHOD FOR STORING	(72) BERENSCHOT, Johan Willem	(73) University of Surrey
AND DISTRIBUTING CONTAINERS	TAS, Niels Roelof	(72) SHKUNOV, Maxim
AND FILLING UNIT	(31) 16157427	CONSTANTINO, Marios
(73) Kronen AG	(32) 25.02.2016	DANIL DE NAMOR, Angela
(72) ZOELFL, Markus	(33) European Patent Office (EPO)	(31) 201620234
FIEGLER, Rudolf	(51) B81C 1/00	(32) 29.11.2016
RAITH, Stefan	B22F 7/08	(33) United Kingdom
LINDNER, Peter	C22C 1/04	(51) C01B 3/38
(31) 102017203729	C22C 33/02	C01B 3/48
(32) 07.03.2017	G04D 7/12	C01B 3/50
(33) Germany	G04B 13/02	C01B 3/56
(51) B67C 3/26	G04B 15/14	C25B 15/08
(11) EP3919432	G04B 17/06	(11) EP4148017
(21) EP21175885.9	G04B 45/00	(21) EP22194622.1
(47) 13.09.2023	B22F 10/10	(47) 13.09.2023
	B22F 10/28	(22) 08.09.2022
	(11) EP3390272	



(54) NATURAL GAS REFORMING SYSTEM AND PROCESS THEREOF	C01B 32/15	(54) SOL OF INORGANIC OXIDE DISPERSED IN HYDROCARBON AND METHOD FOR PRODUCING SAME
(73) Doosan Enerbility Co., Ltd.	B01J 21/18	(73) Nissan Chemical Corporation
(72) YOO, Jeong Seok	B01J 23/42	(72) MAETA, Tomoya
KIM, You Seok	B01J 23/50	SUEMURA, Naohiko
KIM, Byoung Youn	B01J 35/00	YOSHITAKE, Keiko
(31) 20210122700	B01J 35/02	(31) 2020117406
(32) 14.09.2021	B01J 35/10	(32) 07.07.2020
(33) Korea (Republic)	B01J 37/06	(33) Japan
(51) C01B 11/02	B01J 37/08	(51) C01G 53/00
A61L 2/22	H01M 8/10	H01M 4/505
A61L 9/01	(11) EP3858481	H01M 4/525
A61L 9/14	(21) EP18934998.8	H01M 10/054
B05B 9/04	(47) 13.09.2023	C01G 49/00
B65D 83/14	(87) JP2018036548	(11) EP3604228
B65D 83/68	02.04.2020	(21) EP18775232.4
C09K 3/30	(22) 28.09.2018	(47) 13.09.2023
A61L 101/06	(54) CARBON MATERIAL FOR CATALYST CARRIER OF POLYMER ELECTROLYTE FUELL CELL AND METHOD OF PRODUCING THE SAME	(87) JP2018012937
(11) EP3738925	(73) NIPPON STEEL Chemical & Material Co., Ltd.	04.10.2018
(21) EP18902336.9	(72) IJIMA, Takashi	(2) 28.03.2018
(47) 13.09.2023	TADOKORO, Kenichiro	(54) COMPOSITE METAL OXIDE, POSITIVE ELECTRODE ACTIVE MATERIAL, POSITIVE ELECTRODE, SODIUM SECONDARY BATTERY, AND METHOD FOR PRODUCING COMPOSITE METAL OXIDE
(87) JP2018035568	HIYOSHI, Masataka	(73) Sumitomo Chemical Company, Limited
01.08.2019	FURUKAWA, Shinya	(72) TONOSAKI Kiwamu
(22) 26.09.2018	KOMURA, Tomoko	(31) 2017065248
(54) CHLORINE DIOXIDE GENERATING AEROSOL	MASAKI, Kazuyoshi	(32) 29.03.2017
(73) Toyo Aerosol Industry Co., Ltd.	HAYASHIDA, Hiroyuki	(33) Japan
(72) NAKAJIMA, Yasutomu	TADA, Wakana	(51) C02F 1/04
TERASHIMA, Remi	(51) C01B 32/05	C02F 1/06
(31) 2018012305	H01M 4/587	F28D 13/00
(32) 29.01.2018	H01M 4/133	B01D 1/06
(33) Japan	H01M 10/0525	B01D 1/00
(51) C01B 13/14	(11) EP2808300	B01D 1/26
C01G 9/02	(21) EP13741083.3	(11) EP3976536
C01G 49/06	(47) 13.09.2023	(21) EP20731591.2
C09D 7/40	(87) JP2013000357	(47) 13.09.2023
B82Y 30/00	01.08.2013	(87) NL2020050351
C01B 13/36	(22) 24.01.2013	03.12.2020
C09D 1/00	(54) METHOD FOR PRODUCING NON-GRAPHITIZABLE CARBON MATERIAL, NON-GRAPHITIZABLE CARBON MATERIAL, NEGATIVE ELECTRODE MATERIAL FOR LITHIUM ION SECONDARY BATTERIES, AND LITHIUM ION SECONDARY BATTERY	(2) 29.05.2020
C09D 5/33	(73) JFE Chemical Corporation	(54) WASTE WATER TREATMENT BY EVAPORATION AND PREVENTION OF FOULING WITH CLEANING PARTICLES
C09D 5/32	(72) HAGA, Ryuta	(73) TAPROGGE Gesellschaft mbH
C08K 3/34	IJIRI, Makiko	(72) VAN BEEK, Marinus Cornelis
C09D 7/61	SHIODE, Tetsuo	(31) 2023243
C08K 3/22	NAGAYAMA, Katsuhiko	(32) 31.05.2019
C01B 33/12	(31) 2012251004	(33) Netherlands
C09C 3/06	2012014951	(51) C02F 1/04
C09C 3/08	(32) 15.11.2012	C02F 1/48
C09C 1/24	27.01.2012	C02F 1/12
C09C 1/04	(33) Japan	B01D 1/28
C08K 9/02	Japan	C02F 1/00
(11) EP3360847	(51) C01B 33/145	C02F 1/14
(21) EP16853296.8	B01J 13/00	C02F 103/08
(47) 13.09.2023	C09C 1/30	B01D 1/00
(87) JP2016066542	C09C 3/12	B01D 5/00
13.04.2017	(11) EP4023599	(11) EP3553031
(22) 03.06.2016	(21) EP21838692.8	(21) EP19168442.2
(54) METAL OXIDE PARTICLES AND METHOD FOR PRODUCING SAME	(47) 13.09.2023	(47) 13.09.2023
(73) M. Technique Co., Ltd.	(87) JP2021025482	(22) 10.04.2019
(72) ENOMURA Masakazu	13.01.2022	(54) ENERGY SAVING DESALINATION SYSTEM
HONDA Daisuke	(2) 06.07.2021	
(31) 2016111346		
2015197556		
(32) 02.06.2016		
05.10.2015		
(33) Japan		
Japan		
(51) C01B 32/05		

(73) Ginger Water Processing Technology Co., Ltd. Weng, Lin Song	(21) EP20168530.2 (47) 13.09.2023 (22) 07.04.2020	(31) 15201148 (32) 18.12.2015 (33) European Patent Office (EPO)
(72) WENG, Lin Song (31) 107137581 107112319 (32) 24.10.2018 10.04.2018 (33) Taiwan, Chinese Taipei Taiwan, Chinese Taipei	(54) BATHING WATER FILTRATION SYSTEM (73) Azuvia (72) LOUP, Jean-Remi LUCAS, Olivier FONTAINE, Paul-Etienne BAUDUIN, Tristan	(51) C03C 3/093 C03C 3/097 C03C 21/00 (11) EP3445728 (21) EP17720944.2 (47) 13.09.2023 (87) US2017028488 26.10.2017 (22) 20.04.2017 (54) GLASS-BASED ARTICLES INCLUDING A METAL OXIDE CONCENTRATION GRADIENT (73) Corning Incorporated (72) ROUSSEV, Rostislav Vatchev SMITH, Charlene Marie (31) 201662325353 P (32) 20.04.2016 (33) United States of America
(51) C02F 1/52 C02F 1/56 B01D 21/01 C02F 1/66 C02F 103/28 (11) EP3983343 (21) EP20740670.3 (47) 13.09.2023 (87) FI2020050419 17.12.2020 (22) 12.06.2020 (54) METHOD FOR REMOVING DISSOLVED ORGANIC COMPOUNDS FROM WASTEWATER (73) Kemira OYJ (72) HALTTUNEN, Sakari PENTTINEN, Matias AHLGREN, Jonni HÄRKÖNEN, Susann SHESTAKOVA, Marina	(31) 1903768 (32) 09.04.2019 (33) France (51) C02F 11/14 C08F 265/10 C02F 1/56 (11) EP3724137 (21) EP18842528.4 (47) 13.09.2023 (87) FI2018050923 20.06.2019 (22) 14.12.2018 (54) METHOD FOR DEWATERING OF BIOLOGICAL SLUDGE USING A POLYMERIC FLOCCULANT (73) KEMIRA OYJ (72) LIKANDER, Joonas CARCELLER, Rosa	(51) C03C 3/16 C03C 14/00 (11) EP3712118 (21) EP20174738.3 (47) 13.09.2023 (22) 20.04.2017 (54) METAL-GLASS MACROCOMPOSITES AND COMPOSITIONS AND METHODS OF MAKING (73) Upterior, LLC (72) ZIELINSKA, Agnieszka ZIELINSKA, Anna KLISCH, Marian (31) 201662325137 P (32) 20.04.2016 (33) United States of America
(31) 20195516 (32) 14.06.2019 (33) Finland (51) C02F 3/32 (11) EP3003995 (21) EP14803943.1 (47) 13.09.2023 (87) US2014040180 04.12.2014 (22) 30.05.2014 (54) PRODUCING ALGAL BIOMASS AND PRODUCTS FROM ORGANIC SOLID MATERIAL (73) The University of Akron (72) JU, Lu-Kwang LI, Cong XIAO, Suo	(31) 20176124 (32) 15.12.2017 (33) Finland (51) C03B 8/04 C03B 37/018 C03B 37/014 (11) EP3587362 (21) EP18757148.4 (47) 13.09.2023 (87) JP2018001747 30.08.2018 (22) 22.01.2018 (54) MULTI-PIPE BURNER FOR SYNTHESIZING POROUS MATERIALS, AND POROUS MATERIAL SYNTHESIS DEVICE (73) Furukawa Electric Co., Ltd. (72) KAWASAKI, Mitsuhiro	(51) C03C 21/00 C03C 3/083 C03C 3/097 C03C 3/093 (11) EP3802449 (21) EP19731443.8 (47) 13.09.2023 (87) US2019034273 05.12.2019 (22) 29.05.2019 (54) GLASS WITH IMPROVED DROP PERFORMANCE (73) Corning Incorporated (72) GUO, Xiaoju LEZZI, Peter Joseph LUO, Jian ROUSSEV, Rostislav Vatchev (31) 201862678560 P (32) 31.05.2018 (33) United States of America
(31) 201361829311 P (32) 31.05.2013 (33) United States of America (51) C02F 3/32 C02F 3/02 (11) EP3578523 (21) EP18175730.3 (47) 13.09.2023 (22) 04.06.2018 (54) TRANSPORTABLE WASTE WATER TREATMENT UNIT AND METHOD FOR PURIFYING WASTE WATER (73) BAUER Resources GmbH (72) PRIGENT, Stephane STEFANAKIS, Alexandros BREUER, Roman	(31) 2017030632 (32) 22.02.2017 (33) Japan (51) C03B 20/00 C03B 37/012 C03C 3/06 C03B 17/04 C03B 19/10 F26B 3/12 (11) EP3390304 (21) EP16819513.9 (47) 13.09.2023 (87) EP2016081451 22.06.2017 (22) 16.12.2016 (54) SPRAY GRANULATION OF SILICON DIOXIDE IN THE PRODUCTION OF QUARTZ GLASS (73) Heraeus Quarzglas GmbH & Co. KG (72) OTTER, Matthias WITTRIN, Mirko WILDE, Markus	(51) C03C 21/00 C03C 19/00 (11) EP3901112 (21) EP21168124.2 (47) 13.09.2023 (22) 13.04.2021 (54) GLASS ARTICLE AND DISPLAY DEVICE INCLUDING THE SAME (73) Samsung Display Co., Ltd. (72) Shim, Gyu In Kim, Seung
(51) C02F 3/32 E04H 4/12 C02F 1/32 C02F 103/42 (11) EP3722262		

Kang, Byung Hoon Park, Young Ok Sung, Su Jin (31) 20200044473 (32) 13.04.2020 (33) Korea (Republic)	(72) Andersen, Morten Østergaard Jensen, Martin Bonde Slots, Casper (31) PA201570645 (32) 09.10.2015 (33) Denmark	MARLIN, Samuel (31) 1662930 (32) 20.12.2016 (33) France
(51) C04B 7/47 (11) EP4168368 (21) EP22730425.0 (47) 13.09.2023 (87) EP2022063848 01.12.2022 (22) 23.05.2022 (54) METHOD AND DEVICE FOR PRODUCING CEMENT CLINKER (73) thyssenkrupp Industrial Solutions AG thyssenkrupp AG (72) WILLMS, Eike KIMMIG, Constantin (31) 202105418 102021205298 (32) 25.05.2021 25.05.2021 (33) Belgium Germany	(51) C04B 37/02 H01L 23/36 H01L 23/12 C04B 35/645 H01L 23/373 H01L 23/473 H01L 23/48 H01L 21/48 (11) EP2492958 (21) EP10824916.0 (47) 13.09.2023 (87) JP2010068332 28.04.2011 (22) 19.10.2010 (54) SUBSTRATE FOR POWER MODULE, SUBSTRATE WITH HEAT SINK FOR POWER MODULE, POWER MODULE, METHOD FOR PRODUCING SUBSTRATE FOR POWER MODULE, AND METHOD FOR PRODUCING SUBSTRATE WITH HEAT SINK FOR POWER MODULE (73) Mitsubishi Materials Corporation (72) NAGATOMO Yoshiyuki AKIYAMA Kazuhiro TONOMURA Hiroshi TERASAKI Nobuyuki KUROMITSU Yoshirou (31) 2010217591 2010217590 2010091366 2010045747 2009243259 (32) 28.09.2010 28.09.2010 12.04.2010 02.03.2010 22.10.2009 (33) Japan Japan Japan Japan	(51) C05D 9/00 C05F 3/00 C05F 11/00 C05F 17/00 (11) EP3063111 (21) EP14805182.4 (47) 13.09.2023 (87) EP2014073075 07.05.2015 (22) 28.10.2014 (54) METHOD FOR PRODUCING A COMPOSITION FOR FERTILIZING AGRICULTURAL LAND AND THE USE OF SAID COMPOSITION (73) Mansour, Rawya Lofty (72) MANSOUR, Rawya Lotfy FIKRY, Awad (31) 1360495 (32) 28.10.2013 (33) France
(51) C04B 28/02 C04B 28/04 C04B 28/10 (11) EP3922618 (21) EP20425016.1 (47) 13.09.2023 (22) 11.06.2020 (54) CELLULAR CEMENT COMPOSITION, METHOD FOR OBTAINING IT, ITS USE FOR REALIZING A SELF-LEVELLING SCREED, AND SELF-LEVELLING SCREED REALIZED (73) Pelusi, Claudio Desira, Mario (72) Pelusi, Claudio	(51) C04B 37/02 H01L 23/36 H01L 23/12 C04B 35/645 H01L 23/373 H01L 23/473 H01L 23/48 H01L 21/48 (11) EP2492958 (21) EP10824916.0 (47) 13.09.2023 (87) JP2010068332 28.04.2011 (22) 19.10.2010 (54) SUBSTRATE FOR POWER MODULE, SUBSTRATE WITH HEAT SINK FOR POWER MODULE, POWER MODULE, METHOD FOR PRODUCING SUBSTRATE FOR POWER MODULE, AND METHOD FOR PRODUCING SUBSTRATE WITH HEAT SINK FOR POWER MODULE (73) Mitsubishi Materials Corporation (72) NAGATOMO Yoshiyuki AKIYAMA Kazuhiro TONOMURA Hiroshi TERASAKI Nobuyuki KUROMITSU Yoshirou (31) 2010217591 2010217590 2010091366 2010045747 2009243259 (32) 28.09.2010 28.09.2010 12.04.2010 02.03.2010 22.10.2009 (33) Japan Japan Japan Japan	(51) C05F 11/08 A01N 63/22 C05F 17/20 C12N 1/20 C12R 1/10 (11) EP3833189 (21) EP19758908.8 (47) 13.09.2023 (87) EP2019071373 13.02.2020 (22) 08.08.2019 (54) A BACTERIAL COMPOSITION CAPABLE OF DEGRADING COMPLEX CARBOHYDRATES (73) Monaghan Mushrooms Ireland Unlimited Company (72) WILSON, Jude UCCELLO, Andrea (31) 18188108 (32) 08.08.2018 (33) European Patent Office (EPO)
(51) C04B 33/04 C04B 35/01 C04B 35/49 C04B 35/50 C04B 35/515 C04B 35/553 C04B 35/563 C04B 35/565 C04B 35/583 C04B 35/632 C04B 35/634 B33Y 70/10 C04B 28/00 C04B 28/04 C04B 28/34 A61C 13/00 B29C 64/118 B33Y 40/00 B22F 1/107 B33Y 40/20 (11) EP3708277 (21) EP20171517.4 (47) 13.09.2023 (22) 07.10.2016 (54) PROCESS FOR 3D PRINTING, USE OF A SUSPENSION FOR 3D-PRINTING AND A 3D-PRINTER (73) Ossiform ApS	(51) C04B 37/02 H01L 23/36 H01L 23/12 C04B 35/645 H01L 23/373 H01L 23/473 H01L 23/48 H01L 21/48 (11) EP2492958 (21) EP10824916.0 (47) 13.09.2023 (87) JP2010068332 28.04.2011 (22) 19.10.2010 (54) SUBSTRATE FOR POWER MODULE, SUBSTRATE WITH HEAT SINK FOR POWER MODULE, POWER MODULE, METHOD FOR PRODUCING SUBSTRATE FOR POWER MODULE, AND METHOD FOR PRODUCING SUBSTRATE WITH HEAT SINK FOR POWER MODULE (73) Mitsubishi Materials Corporation (72) NAGATOMO Yoshiyuki AKIYAMA Kazuhiro TONOMURA Hiroshi TERASAKI Nobuyuki KUROMITSU Yoshirou (31) 2010217591 2010217590 2010091366 2010045747 2009243259 (32) 28.09.2010 28.09.2010 12.04.2010 02.03.2010 22.10.2009 (33) Japan Japan Japan Japan	(51) C06B 23/00 C06B 45/22 (11) EP3010873 (21) EP14813443.0 (47) 13.09.2023 (87) SE2014000080 24.12.2014 (22) 17.06.2014 (54) PHLEGMATISATION OF AN EXPLOSIVE IN AN AQUEOUS SUSPENSION (73) EURENCO Bofors AB (72) MAZUREK, Michal MAZUREK, Karolina (31) 1330075 (32) 18.06.2013 (33) Sweden
(51) C04B 38/00 F01N 3/28 F01N 3/022 C04B 35/626 C04B 35/46 (11) EP3558895 (21) EP17837975.6 (47) 13.09.2023 (87) FR2017053745 28.06.2018 (22) 20.12.2017 (54) POROUS CERAMIC PRODUCTS OF TITANIUM SUB-OXIDES (73) SAINT-GOBAIN CENTRE DE RECHERCHES ET D'ETUDES EUROPEEN (72) RAFFY, Stéphane AUBERT, Brice URFFER, Daniel	(51) C07C 1/00 (11) EP2817275 (21) EP12869155.7 (47) 13.09.2023 (87) CN2012071759 29.08.2013	

- (22) 29.02.2012  
(54) CONVERSION OF LIPIDS  
(73) Dalian Institute Of Chemical Physics,  
Chinese Academy Of Sciences  
BP P.L.C.  
Petrochemical Research Institute  
PetroChina  
(72) TIAN, Zhijian  
WANG, Congxin  
WANG, Lei  
WANG, Bingchun  
YAN, Lijun  
QU, Wei  
LI, Peng  
MA, Huaijun  
XU, Renshun  
(31) 201210048253  
(32) 24.02.2012  
(33) China  
(51) C07C 1/20  
C07C 1/32  
C07C 4/06  
C01B 39/02  
C10G 11/16  
B01J 29/40  
B01J 37/28  
(11) EP2173689  
(21) EP08786526.7  
(47) 13.09.2023  
(87) EP2008059885  
05.02.2009  
(22) 28.07.2008  
(54) USE OF PHOSPHORUS MODIFIED  
MOLECULAR SIEVES IN CONVERSION  
OF ORGANICS TO OLEFINS  
(73) TOTAL RESEARCH & TECHNOLOGY  
FELUY  
(72) NESTERENKO, Nikolai  
VERMEIREN, Walter  
MINOUX, Delphine  
VAN DONK, Sander  
(31) 07116178  
07113546  
07113545  
(32) 12.09.2007  
31.07.2007  
31.07.2007  
(33) European Patent Office (EPO)  
European Patent Office (EPO)  
European Patent Office (EPO)  
(51) C07C 2/68  
C07C 2/66  
C07C 15/02  
C07C 15/107  
B01J 21/12  
B01J 27/10  
B01J 27/12  
B01J 27/053  
B01J 37/02  
B01J 37/24  
B01J 37/26  
(11) EP3747853  
(21) EP20183303.5  
(47) 13.09.2023  
(22) 19.01.2017  
(54) AROMATIC ALKYLATION USING  
CHEMICALLY-TREATED SOLID  
OXIDES  
(73) Chevron Phillips Chemical Company LP  
(72) YANG, Qing  
MCDANIEL, Max P  
KILGORE, Uriah J  
HLAVINKA, Mark L  
(31) 201615045476  
(32) 17.02.2016  
(33) United States of America  
(51) C07C 21/18  
C07C 17/25  
C07B 61/00  
(11) EP3885333  
(21) EP19887701.1  
(47) 13.09.2023  
(87) JP2019045176  
28.05.2020  
(22) 19.11.2019  
(54) PRODUCTION METHOD OF 1,2-  
DIFLUOROETHYLENE  
(73) DAIKIN INDUSTRIES, LTD.  
(72) NAKAUE, Tsubasa  
(31) 2018217449  
(32) 20.11.2018  
(33) Japan  
(51) C07C 29/00  
C07C 29/60  
C07C 51/377  
(11) EP3774712  
(21) EP19785940.8  
(47) 13.09.2023  
(87) US2019025565  
17.10.2019  
(22) 03.04.2019  
(54) DEHYDRATION AND CRACKING  
OF ALPHA-, BETA-DIHYDROXY  
CARBONYL COMPOUNDS TO LACTIC  
ACID AND OTHER PRODUCTS  
(73) Archer Daniels Midland Company  
(72) BRAZDIL, James  
ROGNESS, Donald  
(31) 201862657409 P  
(32) 13.04.2018  
(33) United States of America  
(51) C07C 39/15  
C07C 37/20  
C07C 37/72  
C08G 8/04  
C08G 8/20  
G03F 7/11  
G03F 7/039  
G03F 7/09  
C09D 161/12  
C08G 8/02  
H01L 21/308  
(11) EP3266759  
(21) EP16761605.1  
(47) 13.09.2023  
(87) JP2016056449  
15.09.2016  
(22) 02.03.2016  
(54) COMPOUND, RESIN, MATERIAL  
FOR FORMING UNDERLAYER FILM  
FOR LITHOGRAPHY, UNDERLAYER  
FILM FOR LITHOGRAPHY, PATTERN  
FORMING METHOD, AND METHOD  
FOR PURIFYING COMPOUND OR  
RESIN  
(73) Mitsubishi Gas Chemical Company, Inc.  
(72) HORIUCHI, Junya  
ECHIGO, Masatoshi  
MAKINOSHIMA, Takashi  
(31) 2015045223  
(32) 06.03.2015  
(33) Japan  
(51) C07C 49/407  
C07C 45/29  
A61Q 11/00  
A61Q 19/00  
A61K 8/35  
(11) EP3539942  
(21) EP19167194.0  
(47) 13.09.2023  
(22) 06.03.2015  
(54) METHOD FOR PRODUCING  
MENTHONES FROM ISOPULEGOL IN  
THE GAS PHASE  
(73) BASF SE  
(72) HICKMANN, Volker  
RÜDENAUER, Stefan  
DEHN, Martine  
KELLER, Andreas  
RENZ, Stephanie  
SCHNEIDER, Daniel  
(31) 14158373  
(32) 07.03.2014  
(33) European Patent Office (EPO)  
(51) C07C 51/235  
C07C 59/06  
C07C 45/60  
C07C 47/19  
(11) EP3544947  
(21) EP17801466.8  
(47) 13.09.2023  
(87) EP2017080065  
31.05.2018  
(22) 22.11.2017  
(54) A METHOD FOR PRODUCING  
GLYCOLIC ACID AND/OR GLYCOLATE  
(73) Topsoe A/S  
(72) OSMUNDSEN, Christian Mårup  
TAARNING, Esben  
(31) PA201600728  
(32) 24.11.2016  
(33) Denmark  
(51) C07C 51/353  
C07C 61/09  
B01J 21/06  
(11) EP3816148  
(21) EP19818926.8  
(47) 13.09.2023  
(87) KR2019006088  
19.12.2019  
(22) 21.05.2019  
(54) METHOD FOR ISOMERIZING  
CYCLOHEXANE DICARBOXYLIC ACID  
(73) Hanwha Solutions Corporation  
(72) LEE, Jong Kwon  
KIM, Eun Jeong  
LEE, Sun Uk  
JANG, Nam Jin  
(31) 20180069246  
(32) 15.06.2018  
(33) Korea (Republic)  
(51) C07C 67/303  
C07C 69/75  
(11) EP3945087

(21) EP20188048.1	(73) Vectus Biosystems Limited	(11) EP3774727
(47) 13.09.2023	(72) DUGGAN, Karen Annette	(21) EP20702644.4
(22) 28.07.2020	(31) 2016902978	(47) 13.09.2023
(54) METHOD FOR THE PREPARATION OF 1,4-CYCLOHEXANE DICARBOXYLIC ACID DIALKYL ESTERS	(32) 28.07.2016	(87) EP2020052675
(73) Evonik Operations GmbH	(33) Australia	13.08.2020
(72) KRAFT, Johannes	(51) C07C 253/34	(22) 04.02.2020
ALTMANN, Lena	C07C 255/08	(54) CRYSTAL COMPOSITION
ANTON, Johan	(11) EP3390350	(CC) COMPRISING 4,4'-
GRASS, Michael	(21) EP16819384.5	DICHLORODIPHENYLSULFOXIDE
SCHNEIDER, Thomas	(47) 13.09.2023	CRYSTALS (C)
	(87) US2016063538	(73) BASF SE
	22.06.2017	(72) THIEL, Indre
(51) C07C 69/30	(22) 23.11.2016	SCHUETZ, Christian
C07C 67/08	(54) RECOVERY COLUMN CONTROL	BLEI, Stefan
C07C 67/30	(73) Ineos Europe AG	GAO, Jun
A23L 33/115	(72) SHOUCHE, Manoj Shrikant	METZGER, Lukas
A61K 31/22	MCDONEL, Timothy Robert	(31) 201962802983 P
A61P 31/00	COUCH, Jay Robert	19156145
A61P 37/00	(31) 201510947424	(32) 08.02.2019
(11) EP3750867	(32) 17.12.2015	08.02.2019
(21) EP19774283.6	(33) China	(33) United States of America
(47) 13.09.2023	(51) C07C 263/10	European Patent Office (EPO)
(87) KR2019003437	C07C 265/14	(51) C07C 327/60
03.10.2019	C07C 253/10	C07C 381/02
(22) 25.03.2019	C07C 255/46	C07C 381/04
(54) 1,2-DIACYLGLYCEROL COMPOUND, PREPARATION METHOD THEREFOR, AND IMMUNOMODULATOR CONTAINING SAME AS ACTIVE INGREDIENT	C07C 209/48	(11) EP3891126
(73) Enzychem Lifesciences Corporation	C07C 211/36	(21) EP19824138.2
(72) SOHN, Ki Young	(11) EP3901133	(47) 13.09.2023
KIM, Jae Wha	(21) EP18943672.8	(87) US2019063814
YOON, Sun Young	(47) 13.09.2023	11.06.2020
YOO, Chang Hyun	(87) CN2018123444	(22) 28.11.2019
JEONG, Jin Seon	25.06.2020	(54) OXIDIZED DISULFIDE OIL SOLVENT COMPOSITIONS
(31) 20180034537	(22) 25.12.2018	(73) Saudi Arabian Oil Company
(32) 26.03.2018	(54) METHOD FOR PREPARING ISOPHORONE DIISOCYANATE	(72) KOSEGLU, Omer, Refa
(33) Korea (Republic)	(73) Wanhua Chemical Group Co., Ltd.	HODGKINS, Robert, Peter
(51) C07C 235/34	(72) YU, Yong	AL-HAJJI, Adnan
C07C 39/15	SHANG, Yonghua	MULLER, Hendrik
C07C 59/52	ZHAO, Lei	ALAWANI, Nadrah, Abdullah
A61P 11/06	LI, Wenbin	ADAM, Frederick, Marie
C07C 215/54	SUN, Ye	SALEEM, Qasim
C07C 237/20	HE, Wei	(31) 201816210266
C07C 239/20	CUI, Xuelei	(32) 05.12.2018
C07C 261/04	WANG, Jingxu	(33) United States of America
C07C 271/28	LIU, Degang	(51) C07D 211/94
C07C 275/42	LI, Yuan	(11) EP4065560
C07C 311/08	(31) 201811567103	(21) EP20726862.4
C07D 207/38	(32) 20.12.2018	(47) 13.09.2023
C07D 209/48	(33) China	(87) EP2020064493
C07D 213/73	(51) C07C 273/00	03.06.2021
C07D 215/14	F04D 7/06	(22) 26.05.2020
C07D 231/12	F04D 1/06	(54) IMPROVED METHOD FOR PREPARING AQUEOUS SOLUTIONS OF 4- AMMONIUM ALKYLPIPERIDINE-1- YLOXYL SALTS FOR USE IN CHARGE STORAGE UNITS
C07D 233/78	F04D 31/00	(73) Evonik Operations GmbH
C07D 403/10	(11) EP3831809	(72) GÄRTNER, Felix
C07D 401/10	(21) EP20211599.4	NISSEN, Felix
C07D 333/24	(47) 13.09.2023	(31) 19212511
(11) EP3490970	(22) 03.12.2020	(32) 29.11.2019
(21) EP17833106.2	(54) CENTRIFUGAL PUMP FOR PROCESSING MOLTEN UREA AND RELATIVE PLANT	(33) European Patent Office (EPO)
(47) 13.09.2023	(73) EUROTECNICA MELAMINE AG	(51) C07D 213/75
(87) AU2017050784	(72) SANTUCCI, Roberto	A01N 41/02
01.02.2018	DI RUOCCO, Giuseppe	A01N 43/40
(22) 28.07.2017	DE AMICIS, Alberto	A01N 43/56
(54) COMPOSITIONS FOR THE TREATMENT OF PULMONARY FIBROSIS	(31) 201900023160	C07D 213/83
	(32) 06.12.2019	C07D 231/14
	(33) Italy	
	(51) C07C 315/06	

C07D 275/06	(32) 18.06.2019	(47) 13.09.2023
C07C 381/10	(33) United States of America	(87) US2018020747
(11) EP3625215	(51) C07D 239/94	07.09.2018
(21) EP18739630.4	C07D 401/12	(22) 02.03.2018
(47) 13.09.2023	A61K 31/517	(54) PROCESSES FOR PREPARING ACC
(87) IB2018053456	A61P 31/18	INHIBITORS AND SOLID FORMS
22.11.2018	(11) EP3960735	THEREOF
(22) 17.05.2018	(21) EP21187414.4	(73) Gilead Sciences, Inc.
(54) FORMIMIDAMIDINE	(47) 13.09.2023	(72) GEIER, Michael
COMPOUNDS USEFUL	(22) 23.12.2015	HUMPHREYS, Luke
AGAINST PHYTOPATHOGENIC	(54) QUINAZOLINE DERIVATIVES USED TO	IKEMOTO, Norihiro
MICROORGANISMS	TREAT HIV	LIEW, Sean
(73) PI Industries Ltd	(73) Gilead Sciences, Inc.	MORRISON, Henry
(72) NAIK, Maruti	Institute Of Organic Chemistry And	SCOTT, Mark E.
MAHAJAN, Vishal A.	Biochemistry As CR, V.V.I.	VARGHESE, Vimal
KALE, Manoj G.	(72) JANSAN, Petr	(31) 201762553300 P
SIVAKUMAR, Sathiyamoorthi	SIMON, Petr	201762466915 P
JAIN, Ankit Kumar	LANSDON, Eric	(32) 01.09.2017
MANJUNATHA, Sulur G	HU, Yunfeng Eric	03.03.2017
AUTKAR, Santosh Shridhar	BASZCZYNSKI, Ondrej	(33) United States of America
GARG, Ruchi	DEJMEK, Milan	United States of America
MISHRA, Rupesh Kumar	MACKMAN, Richard L.	(51) C07D 311/72
VENKATESHA, Hagalavadi M	(31) 201462096748 P	(11) EP3555057
POSCHARNY, Konstantin	(32) 24.12.2014	(21) EP17880264.1
KLAUSENER, Alexander G.M.	(33) United States of America	(47) 13.09.2023
(31) 201711017503	(51) C07D 301/32	(87) IN2017050557
(32) 18.05.2017	C07D 303/04	21.06.2018
(33) India	B01D 3/06	(22) 27.11.2017
(51) C07D 215/08	(11) EP3788036	(54) PROCESS FOR THE PREPARATION
(11) EP3774735	(21) EP19795835.8	OF TOCOLS AND SQUALENE
(21) EP19713028.9	(47) 13.09.2023	(73) Praj Industries Limited
(47) 13.09.2023	(87) US2019029830	(72) PATHAK, Pallavi Vinitkumar
(87) EP2019057423	07.11.2019	CHARHATE, Prajakt Subhash
03.10.2019	(22) 30.04.2019	KURKARNI, Mangesh Ganesh
(22) 25.03.2019	(54) EPOXIDATION PROCESS WITH	(31) 201621042970
(54) ENANTIOSELECTIVE	CONCENTRATED ETHYLENE OXIDE	(32) 16.12.2016
HYDROGENATION OF	SOLUTIONS	(33) India
4-SUBSTITUTED 1,2-	(73) Scientific Design Company, Inc.	(51) C07D 401/12
DIHYDROQUINOLINES IN PRESENCE	(72) CHAN, Chun Chau	C07D 405/12
OF A CHIRAL IRIIDIUM CATALYST	YAMADA, Eunice	C07D 249/04
(73) Bayer Aktiengesellschaft	BILLIG, Barry Jay	C07D 249/06
(72) SCHOTES, Christoph	(31) 201862664474 P	C07D 257/04
BROHM, Dirk, Eckart	(32) 30.04.2018	C07D 271/06
SCHRANCK, Johannes	(33) United States of America	C07D 271/10
(31) 18163963	(51) C07D 307/68	A61P 31/12
(32) 26.03.2018	(11) EP3856732	A61K 31/4192
(33) European Patent Office (EPO)	(21) EP19828862.3	A61K 31/433
(51) C07D 217/16	(47) 13.09.2023	A61K 31/4245
C07D 263/24	(87) NL2019050654	A61K 31/41
C07D 498/04	02.04.2020	A61K 31/4725
(11) EP3986867	(22) 30.09.2019	A61K 31/4439
(21) EP20751718.6	(54) PROCESS AND SALTS FOR	C07D 261/08
(47) 13.09.2023	THE PREPARATION OF 2,5-	C07D 285/12
(87) US2020037186	FURANDICARBOXYLIC ACID	(11) EP3256461
24.12.2020	(73) NEDERLANDSE ORGANISATIE	(21) EP16707651.2
(22) 11.06.2020	VOOR TOEGEPAST-	(47) 13.09.2023
(54) PROCESSES AND INTERMEDIATES	NATUURWETENSCHAPPELIJK	(87) EP2016052990
FOR THE PREPARATION OF 2-(2,6-	ONDERZOEK TNO	18.08.2016
DICHLOROPHENYL)-1-[(1S,3R)-3-	(72) CROCKATT, Marc	(22) 12.02.2016
(HYDROXYMETHYL)-5-(3-HYDROXY-3-	ROA ENGEL, Carol Andrea	(54) UREA AND SULFONAMIDE
METHYLBUTYL)-1-METHYL-3,4-	ROELANDS, Cornelis Petrus Marcus	DERIVATIVES AS HUMAN HELICASE
DIHYDROISOQUINOLIN-2(1H)-	VAN DER MEER, Johannes	DDX3 INHIBITORS USEFUL IN THE
YLJETHENONE	(31) 18197773	TREATMENT OF VIRAL DISEASES
(73) ELI LILLY AND COMPANY	(32) 28.09.2018	(73) Azienda Ospedaliera Universitaria
(72) COLE, Kevin Paul	(33) European Patent Office (EPO)	Senese
KALLMAN, Neil John	(51) C07D 309/12	(72) MEYERHANS, Andreas
MAGNUS, Nicholas Andrew	(11) EP3589636	MARTINEZ DE LA SIERRA, Miguel-
(31) 201962862805 P	(21) EP18712343.5	Angel

BRAI, Annalaura	(21) EP20814144.0	(47) 13.09.2023
FAZI, Roberta	(47) 13.09.2023	(22) 27.10.2009
TINTORI, Cristina	(87) US2020034670	(54) PROCESS FOR THE PRODUCTION
BOTTA, Maurizio	03.12.2020	OF ALPHA-TOCOTRIENOL AND
ARAQUE, José-Esté	(22) 27.05.2020	DERIVATIVES
MARTINEZ, Javier	(54) MACROCYCLIC BROAD SPECTRUM	(73) PTC Therapeutics, Inc.
(31) RM20150070	ANTIBIOTICS	(72) WESSON, Kieron, E.
15167177	(73) F. Hoffmann-La Roche AG	HINMAN, Andrew, W.
(32) 13.02.2015	(72) KOEHLER, Michael Friedrich Thomas	JANKOWSKI, Orion, D.
11.05.2015	SMITH, Peter Andrew	(31) 197585 P
(33) Italy	WINTER, Dana	(32) 28.10.2008
European Patent Office (EPO)	SOW, Boubacar	(33) United States of America
(51) C07D 401/14	STURINO, Claudio	(51) C07D 413/14
C07D 401/04	PELLETIER, Guillaume	A61K 31/5377
C07D 401/02	BOUDREAULT, Jonathan	A61K 31/506
C07D 215/56	(31) 201962853457 P	(11) EP3658552
A61K 31/47	(32) 28.05.2019	(21) EP18837360.9
A61K 31/495	(33) United States of America	(47) 13.09.2023
A61P 33/02	(51) C07D 403/12	(87) KR2018008379
(11) EP3766876	C07D 405/12	31.01.2019
(21) EP20191961.0	C07D 239/42	(22) 25.07.2018
(47) 13.09.2023	A23L 27/20	(54) PROCESS FOR PREPARING N-(5-((4-
(22) 23.09.2009	C07K 5/062	(4-((DIMETHYLAMINO)METHYL)-3-
(54) PHARMACEUTICAL FORMULATION	(11) EP3864012	PHENYL-1H-PYRAZOL-1-
CONTAINING A QUINOLONE	(21) EP19783046.6	YL)PYRIMIDIN-2-
DERIVATIVE	(47) 13.09.2023	YL)AMINO)-4-METHOXY-2-
(73) Melinta Subsidiary Corp.	(87) EP2019077308	MORPHOLINOPHENYL)ACRYLAMIDE
(72) HANSELMANN, Roger	16.04.2020	BY REACTING THE CORRESPONDING
REEVE, Maxwell M.	(22) 09.10.2019	AMINE WITH A 3-HALO-PROPIONYL
JOHNSON, Graham	(54) SAVOURY AND MOUTHFULNESS	CHLORIDE
(31) 194083 P	TASTE ENHANCERS	(73) Yuhan Corporation
(32) 24.09.2008	(73) Lucta, S.A.	(72) OH, Sang-Ho
(33) United States of America	(72) SOLÁ PARERA, José	KHOO, Ja-Heouk
(51) C07D 403/10	ARGELAGUÉS FEU, Montserrat	LIM, Jong-Chul
C07D 405/14	HOFMANN, Thomas	LEE, Seong-Ran
C07D 471/04	FRANK, Oliver	JU, Hyun
C07D 401/14	BREHM, Laura	SHIN, Woo-Seob
C07D 403/14	(31) 18382718	PARK, Dae-Gyu
A61K 31/502	(32) 10.10.2018	PARK, Su-Min
A61P 35/00	(33) European Patent Office (EPO)	HWANG, Yoon-Ah
(11) EP3475272	(51) C07D 405/14	(31) 20170096212
(21) EP17737132.5	C07D 413/14	(32) 28.07.2017
(47) 13.09.2023	C07D 405/04	(33) Korea (Republic)
(87) US2017039119	C07D 493/04	(51) C07D 413/14
28.12.2017	A61K 31/353	C07D 417/14
(22) 23.06.2017	A61K 31/4025	C07D 471/04
(54) PHTHALAZINE DERIVATIVES AS	A61P 25/00	C07D 487/04
INHIBITORS OF PARP1, PARP2 AND/	(11) EP4046995	C07D 487/08
OR TUBULIN USEFUL FOR THE	(21) EP22166538.3	C07D 487/10
TREATMENT OF CANCER	(47) 13.09.2023	C07D 498/04
(73) The Regents of the University of	(22) 11.02.2016	C07D 498/08
California	(54) 1-HETEROCYCLYL ISOCHROMANYL	C07D 513/04
Atlasmedx, Inc.	COMPOUNDS AND ANALOGS FOR	A61P 37/00
(72) TSANG, Tsze	TREATING CNS DISORDERS	(11) EP3807270
PETO, Csaba, J.	(73) Sunovion Pharmaceuticals Inc.	(21) EP19729288.1
JABLONS, David, M.	PGI Drug Discovery LLC	(47) 13.09.2023
LEMJABBAR-ALAOUI, Hassan	(72) XIE, Linghong	(87) EP2019065091
(31) 201662426095 P	JONES, Philip Glyn	19.12.2019
201662354449 P	SPEAR, Kerry L.	(22) 11.06.2019
(32) 23.11.2016	POWELL, Noel Aaron	(54) NOVEL HETEROARYL
24.06.2016	HANANIA, Taleen G.	HETEROCYCLYL COMPOUNDS FOR
(33) United States of America	ALEXANDROV, Vadim	THE TREATMENT OF AUTOIMMUNE
United States of America	(31) 201562115064 P	DISEASE
(51) C07D 403/12	(32) 11.02.2015	(73) F. Hoffmann-La Roche AG
C07D 245/04	(33) United States of America	(72) DEY, Fabian
A61K 31/395	(51) C07D 407/00	KOU, Buyu
A61P 31/04	(11) EP3450431	LIU, Haixia
(11) EP3968983	(21) EP18200523.1	SHEN, Hong

WANG, Xiaoqing	C07B 59/00	PANDA, Manoranjan
ZHANG, Weixing	A61P 25/04	GODESI, Sreenivasulu
ZHANG, Zhisen	A61P 25/18	(31) 201662325255 P
ZHANG, Zhiwei	A61P 25/30	(32) 20.04.2016
ZHU, Wei	A61P 25/32	(33) United States of America
(31) PCT/CN2019/082889	A61P 25/34	(51) C07D 471/04
PCT/CN2018/090783	C07D 471/04	C07D 498/04
18193919	C07B 31/00	A61K 31/4745
(32) 16.04.2019	A61K 31/4375	A61K 31/4741
12.06.2018	(11) EP3517537	A61P 11/00
12.09.2018	(21) EP17861072.1	A61P 17/06
(33) World Intellectual Property Office (WIPO)	(47) 13.09.2023	A61P 29/00
World Intellectual Property Office (WIPO)	(87) CN2017000607	A61P 9/10
European Patent Office (EPO)	19.04.2018	(11) EP3876933
(51) C07D 417/14	(22) 22.09.2017	(21) EP18939242.6
A61P 11/06	(54) DEUTERATED DERIVATIVE OF L-	(47) 13.09.2023
A61P 9/10	TETRAHYDROPALMATINE AND	(87) CN2018114728
A61P 11/12	MEDICAL USE THEREOF	14.05.2020
(11) EP4050011	(73) Taizhou Huayuan Medicinal Tech Co.	(22) 09.11.2018
(21) EP21847920.2	LTD.	(54) NEUTROPHIL INFLAMMATION
(47) 13.09.2023	(72) ZHONG, Bohua	INHIBITOR AND USES THEREOF
(87) CN2021089594	WANG, Jianming	(73) Chang Gung University of Science and
07.07.2022	JIN, Xuefeng	Technology
(22) 25.04.2021	(31) 201610890151	Chang Gung University
(54) ORAL GSNOR INHIBITORS AND	(32) 13.10.2016	Kaohsiung Medical University
PHARMACEUTICAL USE THEREOF	(33) China	(72) HWANG, Tsong-Long
(73) Nanjing Medical University	(51) C07D 471/04	CHEN, Yeh-Long
(72) Ji, Yong	A61K 45/06	TZENG, Cherng-Chyi
XIE, Liping	A61K 31/517	TSENG, Chih-Hua
ZHAO, Shuang	A61P 9/10	(51) C07D 473/34
SONG, Tianyu	A61P 43/00	A61K 31/52
HAN, Yi	(11) EP3604308	A61P 9/00
(31) 202011622515	(21) EP19191493.6	A61P 29/00
(32) 31.12.2020	(47) 13.09.2023	A61P 31/12
(33) China	(22) 30.07.2015	A61P 35/00
(51) C07D 451/00	(54) SUBSTITUTED BICYCLIC	A61P 43/00
C07D 471/04	DIHYDROPYRIMIDINONES AND THEIR	(11) EP3452477
A61P 11/00	USE AS INHIBITORS OF NEUTROPHIL	(21) EP17722013.4
A61P 43/00	ELASTASE ACTIVITY	(47) 13.09.2023
A61K 31/437	(73) Boehringer Ingelheim International	(87) EP2017060730
(11) EP3820867	GmbH	09.11.2017
(21) EP19769567.9	(72) GNAMM, Christian	(22) 04.05.2017
(47) 13.09.2023	ANDERSKEWITZ, Ralf	(54) ADENINE DERIVATIVES AS PROTEIN
(87) IB2019055955	HOESCH, Holger	KINASE INHIBITORS
16.01.2020	MORSCHHAEUSER, Gerd	(73) B.C.I. Pharma
(22) 12.07.2019	OOST, Thorsten	(72) SURLERAUX, Dominique
(54) COMPOUNDS AND COMPOSITIONS	PETERS, Stefan	AMIABLE, Claire
FOR THE TREATMENT OF CYSTIC	RIES, Uwe Joerg	GUILLON, Rémi
FIBROSIS	(31) 14179306	(31) 16305530
(73) Fondazione Istituto Italiano di Tecnologia	(32) 31.07.2014	(32) 04.05.2016
Istituto Giannina Gaslini	(33) European Patent Office (EPO)	(33) European Patent Office (EPO)
Fondazione per la Ricerca sulla Fibrosi	(51) C07D 471/04	(51) C07D 487/04
Cistica - ETS	C07D 271/04	A61P 35/00
(72) BANDIERA, Tiziano	A61K 31/4725	A61K 31/55
BERTOZZI, Fabio	A61K 31/519	(11) EP4010343
GIACOMINA, Francesca	A61P 9/00	(21) EP20757193.6
GIOVANI, Simone	(11) EP3445762	(47) 13.09.2023
SORANA, Federico	(21) EP17733156.8	(87) US2020044718
CACI, Emanuela	(47) 13.09.2023	11.02.2021
FERRERA, Loretta	(87) US2017028231	(22) 03.08.2020
PEDEMONTE, Nicoletta	26.10.2017	(54) 7,8-DIHYDRO-4H-PYRAZOLO[4,3-
GALIETTA, Luis Juan Vicente	(22) 19.04.2017	C]AZEPINE-6-ONE COMPOUNDS
(31) 201800007183	(54) SUBSTITUTED BICYCLIC	(73) Eli Lilly and Company
(32) 13.07.2018	HETEROCYCLIC COMPOUNDS	(72) LUMERAS AMADOR, Wenceslao
(33) Italy	(73) Bristol-Myers Squibb Company	BRANDHUBER, Barbara Jean
(51) C07D 455/03	(72) GUNAGA, Prashantha	IYER, Chandrasekar Venkataraman
A61K 31/4745	RICHTER, Jeremy	LALLEN A JIMENO, Maria Jose
A61P 25/00	YADAV, Navnath Dnyanoba	SHAHDA, Safi



(31) 19382680	(54) OPTICALLY ACTIVE	(33) Korea (Republic)
(32) 05.08.2019	PYRANOCHROMENYL PHENOL	(51) C07H 1/00
(33) European Patent Office (EPO)	DERIVATIVE AND PHARMACEUTICAL	(11) EP3746452
(51) C07D 487/04	COMPOSITION COMPRISING SAME	(21) EP19705051.1
C07D 243/12	(73) Glaceum, Inc.	(47) 13.09.2023
A61K 31/5517	(72) YOO, Sang Ku	(87) US2019015763
A61K 31/551	CHUNG, Jin Wook	08.08.2019
A61P 25/00	JO, In Geun	(22) 30.01.2019
(11) EP3160969	KIM, Ji Young	(54) STEREOSELECTIVE SYNTHESIS
(21) EP15811321.7	LIM, Jeong Ho	AND PROCESS FOR THE
(47) 13.09.2023	KANG, Ku Suk	MANUFACTURING OF 2'-
(87) US2015037913	KIM, Jin Young	DEOXYNUCLEOSIDES
30.12.2015	(31) 20160081674	(73) The United States of America,
(22) 26.06.2015	(32) 29.06.2016	as represented by the Secretary,
(54) PERIPHERALLY RESTRICTED GABA	(33) Korea (Republic)	Department of Health and Human
POSITIVE ALLOSTERIC MODULATORS	(51) C07D 498/14	Services
FOR THE TREATMENT OF IRRITABLE	A61K 31/537	Alchem Laboratories Corporation
BOWEL SYNDROME AND OTHER	A61P 31/18	(72) ZHANG, Lianhao
AILMENTS OF THE PERIPHERAL	(11) EP3564244	VISHNUVAJJALA, Baburao
NERVOUS SYSTEM	(21) EP19167626.1	MORRIS, Joel
(73) The Johns Hopkins University	(47) 13.09.2023	BAHDE, Robert
Lieber Institute, Inc.	(22) 19.06.2015	DENYSENKO, Sergiy M.
(72) PASRICHA, Pankaj	(54) CRYSTALLINE FORMS	LOPEZ, Omar Diego
HUANG, Yifang	OF (2R,5S,13AR)-8-	WISHKA, Donn Gregory
BARROW, James	HYDROXY-7,9-DIOXO-N-(2,4,6-	(31) 201862624967 P
(31) 201462017418 P	TRIFLUOROBENZYL)-2,3,4,5,7,9,13,13A-	(32) 01.02.2018
(32) 26.06.2014	OCTAHYDRO-2,5-METHANOPYRIDO	(33) United States of America
(33) United States of America	[1',2':4,5]PYRAZINO [2,1-B]	(51) C07H 19/20
(51) C07D 487/14	[1,3]OXAZEPINE-10-CARBOXAMIDE	A61K 31/7072
A61K 31/519	(73) Gilead Sciences, Inc.	A61P 31/00
A61K 31/5377	(72) CARRA, Ernest A.	(11) EP2801580
A61K 31/55	CHEN, Irene	(21) EP14169060.2
A61P 35/00	KEATON, Katie Ann	(47) 13.09.2023
A61P 35/02	ZIA, Wahid	(22) 26.03.2008
C07D 519/00	(31) 201462017183 P	(54) Nucleoside phosphoramidate prodrugs
C07D 471/14	201462015238 P	(73) Gilead Sciences, Inc.
C07D 498/14	(32) 25.06.2014	(72) SOFIA, Michael, Joseph
(11) EP3728267	20.06.2014	DU, Jinfa
(21) EP18890670.5	(33) United States of America	WANG, Peiyuan
(47) 13.09.2023	United States of America	NAGARATHNAM, Dhanapalan
(87) CA2018051643	(51) C07F 15/00	(31) 53015
27.06.2019	C09K 11/06	982309 P
(22) 21.12.2018	H10K 85/00	909315 P
(54) TRICYCLIC INHIBITORS OF THE BCL6	H10K 85/30	(32) 21.03.2008
BTB DOMAIN PROTEIN-PROTEIN	H10K 101/10	24.10.2007
INTERACTION AND USES THEREOF	(11) EP3851443	30.03.2007
(73) Ontario Institute for Cancer Research	(21) EP21151992.1	(33) United States of America
(OICR)	(47) 13.09.2023	United States of America
(72) AL-AWAR, Rima	(22) 18.01.2021	United States of America
ISAAC, Methvin	(54) ORGANOMETALLIC COMPOUND,	(51) C07J 7/00
CHAU, Anh My	ORGANIC LIGHT-EMITTING DEVICE	C07J 17/00
MAMAI, Ahmed	INCLUDING ORGANOMETALLIC	C07J 9/00
WATSON, Iain	COMPOUND, AND ELECTRONIC	C07J 1/00
PODA, Gennady	APPARATUS INCLUDING ORGANIC	C07J 43/00
SUBRAMANIAN, Pandiaraju	LIGHT-EMITTING DEVICE	C07J 41/00
WILSON, Brian	(73) Samsung Electronics Co., Ltd.	A61K 31/565
UEHLING, David	(72) KANG, Byungjoon	A61K 31/57
(31) 201762608869 P	KWAK, Seungyeon	A61P 5/00
(32) 21.12.2017	LEE, Kum Hee	A61P 25/08
(33) United States of America	JEON, Aram	A61P 25/18
(51) C07D 493/04	HWANG, Kyuyoung	A61P 25/20
A61K 31/352	LEE, Banglin	A61P 25/28
A61K 31/353	ISHIHARA, Shingo	A61P 25/00
A61P 3/04	CHO, Yuri	A61K 31/58
(11) EP4023651	CHOI, Byoungki	A61K 31/575
(21) EP22153273.2	HONG, Seokhwan	A61K 31/573
(47) 13.09.2023	(31) 20200007377	(11) EP3481845
(22) 29.06.2017	(32) 20.01.2020	(21) EP17743136.8

(47) 13.09.2023	14.05.2015	14.06.2018
(87) US2017041600	(22) 05.11.2014	(22) 07.12.2017
18.01.2018	(54) METHODS OF MODULATING SEED	(54) ANTI-CTLA-4 ANTIBODIES AND
(22) 11.07.2017	AND ORGAN SIZE IN PLANTS	METHODS OF USE THEREOF
(54) C17, C20, AND C21 SUBSTITUTED	(73) Plant Bioscience Limited	(73) Agenus, Inc.
NEUROACTIVE STEROIDS AND THEIR	(72) BEVAN, Michael	Ludwig Institute for Cancer Research Ltd
METHODS OF USE	DUMENIL, Jack	Memorial Sloan Kettering Cancer Center
(73) Sage Therapeutics, Inc.	(31) 201319876	(72) VAN DIJK, Marc
(72) ROBICHAUD, Albert, J.	(32) 11.11.2013	MUNDT, Cornelia, Anne
MARTINEZ BOTELLA, Gabriel	(33) United Kingdom	RITTER, Gerd
HARRISON, Boyd, L.	(51) C07K 16/00	SCHAER, David
SALITURO, Francesco, G.	(11) EP3538552	WOLCHOK, Jedd, David
GRIFFIN, Andrew	(21) EP17801657.2	MERGHOUH, Taha
BLANCO-PILLADO, Maria, Jesus	(47) 13.09.2023	WILSON, Nicholas, Stuart
(31) 201662424083 P	(87) EP2017078991	SAVITSKY, David, Adam
201662360847 P	17.05.2018	FINDEIS, Mark, Arthur
201662360813 P	(22) 13.11.2017	UNDERWOOD, Dennis, John
(32) 18.11.2016	(54) FAB MOLECULES WITH A RODENT	CUILLEROT, Jean-Marie
11.07.2016	HINGE REGION AND A NON-RODENT	PROSCURSHIM, Igor
(33) United States of America	CH1 REGION	SHEBANOVA, Olga
United States of America	(73) MorphoSys AG	(31) 201662431272 P
United States of America	(72) NEUGEBAUER, Julia	(32) 07.12.2016
(51) C07J 9/00	RUNZ, Steffen	(33) United States of America
A61K 31/56	URLINGER, Stefanie	(51) C07K 16/28
A61K 31/575	(31) 16198591	A61P 37/06
(11) EP3157528	(32) 14.11.2016	A61K 39/00
(21) EP15809462.3	(33) European Patent Office (EPO)	(11) EP3468997
(47) 13.09.2023	(51) C07K 16/00	(21) EP17731411.9
(87) US2015036510	G01N 33/574	(47) 13.09.2023
23.12.2015	A61K 39/395	(87) US2017036635
(22) 18.06.2015	A61P 35/00	14.12.2017
(54) OXYSTEROLS AND METHODS OF	A61K 39/00	(22) 08.06.2017
USE THEREOF	C07K 16/30	(54) TREATMENT OF IGG4-RELATED
(73) Sage Therapeutics, Inc.	C07K 16/42	DISEASES WITH ANTI-CD19
(72) HARRISON, Boyd, L.	(11) EP3750913	ANTIBODIES CROSSBINDING TO
MARTINEZ BOTELLA, Gabriel	(21) EP18904885.3	CD32B
ROBICHAUD, Albert, Jean	(47) 13.09.2023	(73) Xencor, Inc.
SALITURO, Francesco, G.	(87) CN2018099279	(72) ZACK, Debra
(31) 201562107236 P	15.08.2019	STONE, John H.
201462014014 P	(22) 08.08.2018	PILLAI, Shiv
(32) 23.01.2015	(54) IGG EPITOPE AND APPLICATION	FOSTER, Paul
18.06.2014	THEREOF AS TARGET	(31) 201662421261 P
(33) United States of America	(73) Beijing SIG Biopharmaceutical	201662399896 P
United States of America	Technology Co., Ltd.	201662347419 P
(51) C07K 14/325	(72) QIU, Xiaoyan	(32) 12.11.2016
C12N 15/82	TANG, Jingshu	26.09.2016
A01N 63/23	YANG, Zhi	08.06.2016
(11) EP3795582	WANG, Chong	(33) United States of America
(21) EP20204103.4	ZHANG, Jingxuan	United States of America
(47) 13.09.2023	ZHU, Hua	United States of America
(22) 03.12.2015	GENG, Zihan	(51) C07K 16/28
(54) COMPOSITIONS AND METHODS FOR	LIU, Yang	C07K 14/725
CONTROLLING PLANT PESTS	JIANG, Wenhua	C12N 5/0783
(73) SYNGENTA PARTICIPATIONS AG	HUANG, Jing	A61K 35/17
(72) BRAMLETT, Matthew, Richard	(31) 201810330585	A61K 39/00
SEGUIN, Katherine	201810146884	(11) EP3730519
KRAMER, Vance, Cary	(32) 13.04.2018	(21) EP18892983.0
ROSE, Mark, Scott	12.02.2018	(47) 13.09.2023
(31) 201462090900 P	(33) China	(87) KR2018016515
(32) 12.12.2014	China	27.06.2019
(33) United States of America	(51) C07K 16/28	(22) 21.12.2018
(51) C07K 14/415	A61K 39/00	(54) ANTIBODY OR ANTIGEN-BINDING
C12N 15/82	A61P 11/00	FRAGMENT THEREOF THAT
(11) EP3068794	A61P 35/04	SPECIFICALLY RECOGNIZES B CELL
(21) EP14802104.1	(11) EP3551660	MALIGNANCIES, CHIMERIC ANTIGEN
(47) 13.09.2023	(21) EP17818406.5	RECEPTOR COMPRISING SAME, AND
(87) GB2014053296	(47) 13.09.2023	USES THEREOF
	(87) US2017065011	(73) AbClon Inc.

(72) LEE, Jong Seo KIM, Kyu Tae KO, Bong Kook KIM, Ki Hyun	(31) 20155406 (32) 29.05.2015 (33) Finland	06.02.2020 (22) 22.07.2019
(31) 20170178559 (32) 22.12.2017 (33) Korea (Republic)	(51) C08B 30/12 C08B 30/00 C08B 31/18	(54) PROCESS FOR PRODUCING AN AQUEOUS POLYMER DISPERSION
(51) C07K 16/28 C07K 16/30 G01N 33/574 C12N 15/13 C07K 19/00 C07K 14/705	(11) EP3917972 (21) EP20746850.5 (47) 13.09.2023 (87) SE2020050083 06.08.2020 (22) 31.01.2020 (54) METHOD FOR PREPARING INHIBITED STARCH	(73) BASF SE (72) LOHMEIJER, Bastiaan BALK, Roelof WRAZIDLO, Robert
(11) EP3543258 (21) EP19169560.0 (47) 13.09.2023 (22) 14.03.2013 (54) TEM-1 DIAGNOSTIC ANTIBODIES (73) Eisai R&D Management Co., Ltd. (72) O'SHANNESY, Daniel, John	(31) 201261618235 P (32) 30.03.2012 (33) United States of America	(31) 18186974 (32) 02.08.2018 (33) European Patent Office (EPO)
(51) C07K 16/28 C12N 15/85 A01K 67/027 C07K 14/705	(21) EP20746850.5 (47) 13.09.2023 (87) SE2020050083 06.08.2020 (22) 31.01.2020 (54) METHOD FOR PREPARING INHIBITED STARCH	(51) C08F 2/26 C08F 14/18 C08F 14/26 C08K 5/098
(11) EP3476865 (21) EP17819238.1 (47) 13.09.2023 (87) CN2017090320 04.01.2018 (22) 27.06.2017 (54) METHOD FOR CONSTRUCTING PD-1 GENE-MODIFIED HUMANIZED ANIMAL MODEL AND USE THEREOF (73) Biocytogen Pharmaceuticals (Beijing) Co., Ltd.	(72) Sveriges Stärkelseproducenter, förening u.p.a. (72) BRYNOLF, Mikael STÄHL, Åke SAMUELSSON, Mathias	(11) EP3604349 (21) EP18776418.8 (47) 13.09.2023 (87) JP2018013620 04.10.2018 (22) 30.03.2018 (54) PRODUCTION METHOD FOR FLUOROPOLYMER, SURFACTANT FOR POLYMERIZATION, AND USE OF SURFACTANT
(72) SHEN, Yuelei BAI, Yang HUANG, Rui ZHOU, Xiaofei HU, Yuting GUO, Yanan DU, Jichao	(31) 201261618235 P (32) 30.03.2012 (33) Sweden	(73) Daikin Industries, Ltd. (72) KATO, Taketo YONEDA, Satoru FUJISAWA, Manabu ASANO, Kazuya KITAHARA, Takahiro HIGASHI, Masahiro YAMAUCHI, Akiyoshi ISHIHARA, Sumi KISHIKAWA, Yosuke NITTA, Shinnosuke NAKANO, Marina YOSHIDA, Hiroto NANBA, Yoshinori ITO, Kengo OKUI, Chiaki AOYAMA, Hirokazu SUKEGAWA, Masamichi YAMANAKA, Taku TANAKA, Yuuji ICHIKAWA, Kenji FUJIMOTO, Yohei SATO, Hiroyuki
(31) 201610487764 (32) 28.06.2016 (33) China	(51) C08F 2/00 C08F 210/16 C08J 5/18 C08L 23/08 C08F 4/659	(54) PRODUCTION METHOD FOR FLUOROPOLYMER, SURFACTANT FOR POLYMERIZATION, AND USE OF SURFACTANT
(51) C08B 3/10 C08B 11/02 C08B 1/02 C08L 1/10 C08L 1/28	(11) EP4056598 (21) EP21161496.1 (47) 13.09.2023 (22) 09.03.2021 (54) POLYETHYLENE COMPOSITION FOR A FILM LAYER	(73) Borealis AG (72) WANG, Jingbo BERGER, Friedrich AHO, Jani
(11) EP3303405 (21) EP16802634.2 (47) 13.09.2023 (87) FI2016050375 08.12.2016 (22) 30.05.2016 (54) MOLAR MASS CONTROLLED CELLULOSE (73) Teknologian Tutkimuskeskus VTT Oy (72) ROPPONEN, Jarmo TALJA, Riku WILLBERG-KEYRILÄINEN, Pia HARLIN, Ali ASIKAINEN, Sari VARTIAINEN, Jari	(31) 201610487764 (32) 28.06.2016 (33) China	(54) PRODUCTION METHOD FOR FLUOROPOLYMER, SURFACTANT FOR POLYMERIZATION, AND USE OF SURFACTANT
(51) C08B 30/12 C08B 30/00 C08B 31/18	(11) EP3917972 (21) EP20746850.5 (47) 13.09.2023 (87) SE2020050083 06.08.2020 (22) 31.01.2020 (54) METHOD FOR PREPARING INHIBITED STARCH	(51) C08F 2/06 C08F 2/38 C08F 120/14 C08F 120/18
(11) EP3543258 (21) EP19169560.0 (47) 13.09.2023 (22) 14.03.2013 (54) TEM-1 DIAGNOSTIC ANTIBODIES (73) Eisai R&D Management Co., Ltd. (72) O'SHANNESY, Daniel, John	(31) 201261618235 P (32) 30.03.2012 (33) Sweden	(11) EP3604349 (21) EP18776418.8 (47) 13.09.2023 (87) JP2018013620 04.10.2018 (22) 30.03.2018 (54) PRODUCTION METHOD FOR FLUOROPOLYMER, SURFACTANT FOR POLYMERIZATION, AND USE OF SURFACTANT
(51) C07K 16/28 C12N 15/85 A01K 67/027 C07K 14/705	(11) EP4056598 (21) EP21161496.1 (47) 13.09.2023 (22) 09.03.2021 (54) POLYETHYLENE COMPOSITION FOR A FILM LAYER	(73) Borealis AG (72) WANG, Jingbo BERGER, Friedrich AHO, Jani
(11) EP3476865 (21) EP17819238.1 (47) 13.09.2023 (87) CN2017090320 04.01.2018 (22) 27.06.2017 (54) METHOD FOR CONSTRUCTING PD-1 GENE-MODIFIED HUMANIZED ANIMAL MODEL AND USE THEREOF (73) Biocytogen Pharmaceuticals (Beijing) Co., Ltd.	(31) 201610487764 (32) 28.06.2016 (33) China	(54) PRODUCTION METHOD FOR FLUOROPOLYMER, SURFACTANT FOR POLYMERIZATION, AND USE OF SURFACTANT
(51) C08B 3/10 C08B 11/02 C08B 1/02 C08L 1/10 C08L 1/28	(11) EP4146708 (21) EP22738637.2 (47) 13.09.2023 (87) EP2022067821 02.02.2023 (22) 29.06.2022 (54) PROCESS FOR PREPARING LOW MOLECULAR WEIGHT POLYACRYLATES AND PRODUCTS THEREOF	(31) 2018020462 2017248552 2017073084
(11) EP3303405 (21) EP16802634.2 (47) 13.09.2023 (87) FI2016050375 08.12.2016 (22) 30.05.2016 (54) MOLAR MASS CONTROLLED CELLULOSE (73) Teknologian Tutkimuskeskus VTT Oy (72) ROPPONEN, Jarmo TALJA, Riku WILLBERG-KEYRILÄINEN, Pia HARLIN, Ali ASIKAINEN, Sari VARTIAINEN, Jari	(73) Evonik Operations GmbH (72) SIRAK, Sofia MOSNIER, Gaël MEISTER, Claudia HIRM, Sascha	(32) 07.02.2018 25.12.2017 31.03.2017
(51) C08B 30/12 C08B 30/00 C08B 31/18	(31) 21188379 (32) 29.07.2021 (33) European Patent Office (EPO)	(33) Japan Japan Japan
(11) EP3543258 (21) EP19169560.0 (47) 13.09.2023 (22) 14.03.2013 (54) TEM-1 DIAGNOSTIC ANTIBODIES (73) Eisai R&D Management Co., Ltd. (72) O'SHANNESY, Daniel, John	(51) C08F 2/22 C08L 33/04 C09D 5/02 C09D 133/04 C09D 133/14	(51) C08F 4/64 C08F 210/16
(51) C07K 16/28 C12N 15/85 A01K 67/027 C07K 14/705	(11) EP3917972 (21) EP20746850.5 (47) 13.09.2023 (87) SE2020050083 06.08.2020 (22) 31.01.2020 (54) METHOD FOR PREPARING INHIBITED STARCH	(11) EP3589665 (21) EP18713081.0 (47) 13.09.2023 (87) US2018020074 07.09.2018 (22) 28.02.2018 (54) PHOSPHORAMIDATE CATALYSTS FOR ETHYLENE-BASED INTERPOLYMERS (73) Dow Global Technologies LLC

(72) SPENCER, Liam P. PEARSON, David M.	C08F 116/14 H01L 29/76	(72) CADRA, Stéphane BLONDEL, Benoit
(31) 201762464712 P	(11) EP3735430	(31) 1852653
(32) 28.02.2017	(21) EP19724856.0	(32) 27.03.2018
(33) United States of America	(47) 13.09.2023	(33) France
(51) C08F 4/642 C08F 112/14	(87) EP2019063198 02.01.2020	(51) C08F 265/06 A61F 13/53
(11) EP3763748	(22) 22.05.2019	A61L 15/24
(21) EP20180366.5	(54) VINYLETHER-BASED POLYMER AS	A61L 15/60
(47) 13.09.2023	DIELECTRIC	C08F 2/32
(22) 16.06.2020	(73) CLAP CO., LTD.	C08J 3/24
(54) METHOD FOR FLUORINATED POLYMER PREPARATION BY ZIEGLER NATTA CATALYSIS	(72) KAELBLEIN, Daniel BRUNETTI, Fulvio Giacomo	C08F 120/06
(73) Commissariat à l'Énergie Atomique et aux Énergies Alternatives Centre National de la Recherche Scientifique	BECK, Georg	(11) EP3590981
Université Grenoble Alpes	BAHL, Daniel	(21) EP18761807.9
(72) CLEMENT, Thomas	BERENS, Ulrich	(47) 13.09.2023
PICARD, Lionel	MUENSTER, Ingo	(87) JP2018007961 07.09.2018
RANNOU, Patrice	(31) 18179713	(22) 02.03.2018
(31) 1906597	(32) 26.06.2018	(54) WATER-ABSORBING RESIN, AND ABSORBENT ARTICLE
(32) 19.06.2019	(33) European Patent Office (EPO)	(73) Sumitomo Seika Chemicals Co., Ltd.
(33) France	(51) C08F 126/06	(72) CHIBA, Mikito
(51) C08F 4/80	C08F 2/48	ONODA, Yuichi
C08F 210/02	C08F 2/50	(31) 2017038981
C08F 210/14	C08F 4/40	(32) 02.03.2017
C08F 216/36	C08F 4/80	(33) Japan
C08G 61/08	C08F 226/06	(51) C08F 290/06
(11) EP3978537	C08F 271/02	G03F 7/027
(21) EP20815584.6	C08F 283/00	C08F 2/50
(47) 13.09.2023	C09J 151/00	C08F 222/10
(87) JP2020020995	C09J 7/38	C09D 151/08
03.12.2020	C09J 4/06	C09D 4/06
(22) 27.05.2020	C09J 7/10	(11) EP3925993
(54) POLAR GROUP-CONTAINING OLEFIN COPOLYMER	(11) EP4159775	(21) EP20755435.3
(73) The University of Tokyo Japan Polychem Corporation	(21) EP22193370.8	(47) 13.09.2023
(72) NOZAKI, Kyoko	(47) 13.09.2023	(87) JP2020002100 20.08.2020
WANG, Xiaoming	(22) 01.09.2022	(22) 22.01.2020
TAYANO, Takao	(54) PHOTO-SETTING REACTIVE ADHESIVE FILM	(54) PHOTOCURABLE RESIN COMPOSITION AND CURED PRODUCT OBTAINED BY CURING SAME
(31) 2019098854	(73) TESA SE	(73) Namics Corporation
(32) 27.05.2019	(72) SCHÜMANN, Uwe HANNEMANN, Frank	(72) CZUBAROW, Pawel
(33) Japan	DIETZE, Sebastian	SATO, Toshiyuki
(51) C08F 8/00	CZESKI, Tanita	OTOMO, Masayoshi
C08G 18/83	RELLMANN-SPRINK, André	(31) 201962804337 P
C08G 63/685	(31) 102021125429	(32) 12.02.2019
C08G 63/91	(32) 30.09.2021	(33) United States of America
C08G 65/48	(33) Germany	(51) C08G 8/10
C08G 69/48	(51) C08F 220/54	C10L 9/08
(11) EP3820912	C08F 2/10	C10B 53/02
(21) EP19742317.1	C08F 2/48	(11) EP3581598
(47) 13.09.2023	C08K 3/16	(21) EP18718176.3
(87) EP2019068487	C08K 5/10	(47) 13.09.2023
16.01.2020	C08K 5/16	(87) ES2018070084 16.08.2018
(22) 10.07.2019	C08L 33/24	(22) 05.02.2018
(54) FUNCTIONALIZED POLYMERS	C08K 5/00	(54) BIOPOLYMERS AND PREPARATION METHOD
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	(11) EP3740514	(73) Ingelia, S.L.
(72) ESCHIG, Steven	(21) EP19719550.6	Consejo Superior de Investigaciones Científicas (CSIC)
FRIEBEL, Stefan	(47) 13.09.2023	Universitat Politècnica de València
SCHMIDT, Philipp	(87) FR2019050686	(72) HITZL, Martin
(31) 102018211720	03.10.2019	RENZ, Michael
(32) 13.07.2018	(22) 26.03.2019	CORMA CANOS, Avelino
(33) Germany	(54) USE OF SPECIFIC SOLUTIONS AND POLYMERIC MATERIALS OBTAINED FROM THESE SOLUTIONS FOR THE TRAPPING OF TOXIC CHEMICAL AGENTS	OLIVER-TOMAS, Borja
(51) C08F 16/14	(73) Commissariat à l'énergie atomique et aux énergies alternatives	

(31) 201730146	(47) 13.09.2023	(54) ORGANIC SEMICONDUCTOR
(32) 08.02.2017	(87) US2016043144	ELEMENT, MANUFACTURING
(33) Spain	26.01.2017	METHOD THEREOF, COMPOUND,
(51) C08G 18/44	(22) 20.07.2016	ORGANIC SEMICONDUCTOR
C08G 64/02	(54) CURABLE BENZOXAZINE	COMPOSITION, ORGANIC
(11) EP3828215	COMPOSITIONS	SEMICONDUCTOR FILM, AND
(21) EP20209995.8	(73) Huntsman Advanced Materials Americas	MANUFACTURING METHOD THEREOF
(47) 13.09.2023	LLC	(73) FUJIFILM Corporation
(22) 26.11.2020	(72) LE, Dong	(72) KITAMURA, Tetsu
(54) POLYUREA RESIN	KINCAID, Derek	YAMAMOTO, Yosuke
(73) Asahi Kasei Kabushiki Kaisha	WANG, Dong	TAMAKUNI, Fumiko
(72) MASUBUCHI, Tetsuo	RECHICHAR, Bradley	SHIGENOI, Yuta
OOTANI, Tetsuya	(31) 201562195944 P	GOTO, Takashi
(31) 2019213054	(32) 23.07.2015	WATANABE, Tetsuya
(32) 26.11.2019	(33) United States of America	(31) 2015051881
(33) Japan	(51) C08G 59/40	(32) 16.03.2015
(51) C08G 18/76	C08J 9/08	(33) Japan
C08G 18/80	C08G 59/42	(51) C08G 63/181
C08G 18/12	(11) EP3271413	C08L 67/02
C08G 18/32	(21) EP16716983.8	D01F 6/84
C09J 175/06	(47) 13.09.2023	(11) EP3445800
(11) EP3481885	(87) US2016023411	(21) EP17721556.3
(21) EP17726493.4	22.09.2016	(47) 13.09.2023
(47) 13.09.2023	(22) 21.03.2016	(87) EP2017059410
(87) US2017033722	(54) ESTERIFIED ACIDS FOR USE IN	26.10.2017
18.01.2018	POLYMERIC MATERIALS	(22) 20.04.2017
(22) 22.05.2017	(73) Zephyros Inc.	(54) NEW POLYESTER AND
(54) HIGH-SOLIDS CONTENT SOLVENT-	(72) CZAPLICKI, Michael	COMPOSITIONS CONTAINING IT
BASED ADHESIVE COMPOSITIONS	HICKS, Kevin	(73) Novamont S.p.A.
AND METHODS OF MAKING SAME	(31) 201562208236 P	(72) BASTIOLI, Catia
(73) DOW GLOBAL TECHNOLOGIES LLC	201562135337 P	CAPUZZI, Luigi
(72) XIE, Rui	(32) 21.08.2015	MILIZIA, Tiziana
GELFER, Mikhail Y.	19.03.2015	RALLIS, Angelos
BARRUS, Jonathan	(33) United States of America	VALLERO, Roberto
(31) 201662360659 P	United States of America	(31) UA20162764
(32) 11.07.2016	(51) C08G 59/54	(32) 20.04.2016
(33) United States of America	C09D 163/00	(33) Italy
(51) C08G 59/06	C08G 69/26	(51) C08G 63/181
C08G 59/24	C08G 69/40	C08L 67/02
C08G 59/50	C08G 73/02	D01F 6/84
(11) EP3680268	(11) EP3143067	(11) EP3445802
(21) EP17927085.5	(21) EP15792518.1	(21) EP17721971.4
(47) 13.09.2023	(47) 13.09.2023	(47) 13.09.2023
(87) JP2017035660	(87) US2015030446	(87) EP2017059419
04.04.2019	19.11.2015	26.10.2017
(22) 29.09.2017	(22) 13.05.2015	(22) 20.04.2017
(54) EPOXY RESIN, EPOXY RESIN	(54) MULTIFUNCTIONAL POLYAMIDES FOR	(54) COMPOSITIONS CONTAINING NEW
COMPOSITION, EPOXY RESIN	PROTECTIVE COATINGS	POLYESTER
CURED PRODUCT, AND COMPOSITE	(73) Huntsman Advanced Materials Americas	(73) Novamont S.p.A.
MATERIAL	LLC	(72) BASTIOLI, Catia
(73) Resonac Corporation	(72) PETWAY, Lorenzo, Neil	CAPUZZI, Luigi
(72) HIGASHIUCHI, Tomoko	LE, Dong	MILIZIA, Tiziana
MARUYAMA, Naoki	UCHENNA UZOEZIE, Charles	RALLIS, Angelos
YOSHIDA, Yuka	(31) 201461992949 P	VALLERO, Roberto
FUKUDA, Kazumasa	(32) 14.05.2014	(31) UA20162764
TAKEZAWA, Yoshitaka	(33) United States of America	(32) 20.04.2016
(51) C08G 59/40	(51) C08G 61/12	(33) Italy
C08G 59/00	C08L 65/00	(51) C08G 65/14
C08G 59/42	H01L 21/336	C08G 81/02
C08J 5/24	H01L 29/786	C08G 65/22
C08K 5/357	C09D 165/00	C08G 75/23
C08L 63/00	H10K 10/00	B01D 71/68
C07C 265/16	(11) EP3258513	C08G 65/334
C08G 73/10	(21) EP16764998.7	(11) EP2963076
C08L 63/10	(47) 13.09.2023	(21) EP15172564.5
C08L 79/08	(87) JP2016058256	(47) 13.09.2023
(11) EP3325533	22.09.2016	(22) 17.06.2015
(21) EP16828475.0	(22) 16.03.2016	

(54) HYDROPHILIC BLOCK COPOLYMERS AND MEMBRANES PREPARED THEREFROM	C08G 18/34 C08G 18/38 C08L 79/08	(33) European Patent Office (EPO) European Patent Office (EPO)
(73) Pall Corporation	H01L 23/29	(51) C08J 3/22
(72) AIT-HADDOU, Hassan ONYEMAUWA, Frank Okezie	H01L 23/31	C08J 3/24 H01B 3/00 H01B 3/44
(31) 201414320376	(11) EP3730536	(11) EP3050913
(32) 30.06.2014	(21) EP18890339.7	(21) EP14848078.3
(33) United States of America	(47) 13.09.2023	(47) 13.09.2023
(51) C08G 65/26	(87) JP2018046691	(87) JP2014075752
(11) EP3931235	27.06.2019	02.04.2015
(21) EP20711447.1	(22) 19.12.2018	(22) 26.09.2014
(47) 13.09.2023	(54) POLYAMIDE IMIDE RESIN, POLYAMIDE IMIDE RESIN COMPOSITION, AND SEMICONDUCTOR DEVICE USING POLYAMIDE IMIDE RESIN AND POLYAMIDE IMIDE RESIN COMPOSITION	(54) HEAT-RESISTANT SILANE-CROSSLINKED RESIN MOLDED BODY AND METHOD OF PRODUCING THE SAME, HEAT-RESISTANT SILANE-CROSSLINKABLE RESIN COMPOSITION AND METHOD FOR PRODUCING THE SAME, SILANE MASTERBATCH, AND HEAT-RESISTANT PRODUCT USING HEAT-RESISTANT SILANE-CROSSLINKED RESIN MOLDED BODY
(87) US2020018501 03.09.2020	(73) Resonac Corporation	(73) Furukawa Electric Co. Ltd.
(22) 17.02.2020	(72) TAKEMORI, Daichi	(72) MATSUMURA, Arifumi NISHIGUCHI, Masaki
(54) POLYETHER POLYMERIZATION PROCESS	SATO, Eiichi SATO, Mizuki	(31) 2013202670
(73) Dow Global Technologies LLC	(31) PCT/JP2017/045692	(32) 27.09.2013
(72) SHI, Haifeng KUMBHALKAR, Mrunmayi FISK, Jason S. WHALEY, Curtis M. BABB, David A. MURDOCH, Brian J.	(32) 20.12.2017	(33) Japan
(31) 201962812151 P	(33) World Intellectual Property Office (WIPO)	(51) C08J 5/04
(32) 28.02.2019	(51) C08G 79/02	(11) EP3351587
(33) United States of America	C07F 9/6558 C07F 9/6561	(21) EP18151799.6
(51) C08G 65/333	(11) EP3672601	(47) 13.09.2023
C07D 251/34	(21) EP18859106.9	(22) 16.01.2018
C07D 405/06	(47) 13.09.2023	(54) COMPOSITE RESIN COMPOSITION
C07F 7/08	(87) US2018052524	(73) Panasonic Holdings Corporation
C07F 7/18	28.03.2019	(72) HAMABE, Masashi NAGINO, Toshifumi
C09K 3/00	(22) 25.09.2018	(31) 2017006294
C08G 59/28	(54) PROCESSES FOR PREPARING PHOSPHORODIAMIDATE MORPHOLINO OLIGOMERS VIA FAST-FLOW SYNTHESIS	(32) 18.01.2017
C08G 59/30	(73) Sarepta Therapeutics, Inc. Massachusetts Institute of Technology	(33) Japan
C08G 65/336	(72) TOTARO, Kyle, A. SIMON, Mark, D. ZHOU, Ming ZONG, Hong HANSON, Gunnar, J. PENDELUTE, Bradley, L.	(51) C08J 5/04 B32B 1/08 B32B 27/30 F16L 11/10 B29C 53/58 B29K 27/12 B29K 105/08 B32B 27/08 C08L 27/16 D01F 9/12 D06M 15/256 D06M 23/08
(11) EP3498756	(31) 201762562741 P	(11) EP3594274
(21) EP17853181.0	(32) 25.09.2017	(21) EP18798608.8
(47) 13.09.2023	(33) United States of America	(47) 13.09.2023
(87) JP2017034376 29.03.2018	(51) C08J 3/20	(87) JP2018008694
(22) 22.09.2017	C08K 5/053 C08J 9/00 C08J 9/06	15.11.2018
(54) NOVEL COMPOUND HAVING ISOCYANURIC SKELETON AND COMPOSITION IN WHICH SAID COMPOUND IS INCLUDED	(11) EP3303456	(22) 07.03.2018
(73) Daikin Industries, Ltd.	(21) EP16727387.9	(54) SHEET, LAMINATE, PIPE, RISER TUBE, AND FLOWLINE
(72) YAMASHITA, Tsuneo NOSE, Masatoshi MITSUHASHI, Hisashi Nii, Saya SAKAMOTO, Eiji OZAWA, Kaori	(47) 13.09.2023	(73) Daikin Industries, Ltd.
(31) 2017149207 2017116961 2017083841 2016185759	(87) EP2016061974 01.12.2016	(72) KUWAJIMA, Yuuki TSUDA, Hayato
(32) 01.08.2017 14.06.2017 20.04.2017 23.09.2016	(22) 27.05.2016	(31) 2017093864
(33) Japan Japan Japan Japan	(54) SILICONE ELASTOMERS AND THEIR PREPARATION AND USE	(32) 10.05.2017
(51) C08G 73/14 B32B 27/34	(73) Danmarks Tekniske Universitet	(33) Japan
	(72) SKOV, Anne Ladegaard HVILSTED, Søren MAZUREK, Piotr Stanislaw	(51) C08J 5/04
	(31) 15199838 15169435	
	(32) 14.12.2015 27.05.2015	

C08J 5/08	YEO, Hyeonuk	(22) 31.01.2017
C08L 101/00	(31) 20160033006	(54) HALOGEN-FREE FLAME RETARDANT
C08L 67/02	20150140571	COMPOSITIONS WITH IMPROVED
C08L 77/02	(32) 18.03.2016	TENSILE PROPERTIES
C08K 3/40	06.10.2015	(73) Dow Global Technologies LLC
C03C 13/02	(33) Korea (Republic)	(72) ZHANG, Yichi
C03C 3/118	Korea (Republic)	ALVES, Marcio Teixeira
(11) EP3560987	(51) C08J 7/043	CHAUDHARY, Bharat I.
(21) EP17775631.9	B41M 5/00	(31) 201662301097 P
(47) 13.09.2023	B41M 7/00	(32) 29.02.2016
(87) JP2017024042	E04D 5/10	(33) United States of America
05.10.2017	(11) EP3603968	(51) C08K 5/00
(22) 29.06.2017	(21) EP18777593.7	C08L 23/08
(54) GLASS FIBER-REINFORCED RESIN	(47) 13.09.2023	C08F 6/02
MOLDED ARTICLE	(87) JP2018012206	C08L 53/00
(73) Nitto Boseki Co., Ltd.	04.10.2018	C08K 3/22
(72) TSUCHIGANE, Akane	(22) 26.03.2018	C08K 5/098
ONODERA, Yuya	(54) USE OF A LAMINATE IN INKJET	(11) EP2291445
TAKAHASHI, Yuta	PRINTING, PRINTED MATTER AND	(21) EP09767465.9
KURITA, Tadashi	METHOD FOR MANUFACTURING	(47) 13.09.2023
AIZAWA, Tsunefumi	SAME	(87) US2009046596
(31) 2016252078	(73) AGC Inc.	23.12.2009
(32) 26.12.2016	(72) ARUGA, Hiroshi	(22) 08.06.2009
(33) Japan	(31) 2017063211	(54) PROCESSES TO CONTROL FOULING
(51) C08J 5/18	(32) 28.03.2017	AND IMPROVE COMPOSITIONS
B29C 55/12	(33) Japan	(73) Dow Global Technologies LLC
B32B 15/085	(51) C08J 7/12	(72) CASTELLUCCIO, Anthony J.
H01G 4/32	B29C 59/14	DEAN, Jeffrey J.
B29K 23/00	B29C 59/02	WANG, Alec Y.
B29L 7/00	B65D 23/02	MILLER, Lindsey Anne
H01G 4/18	B65D 47/40	JAIN, Pradeep
(11) EP3842479	B65D 47/08	KUHLMAN, Roger L.
(21) EP19850894.7	(11) EP3214117	TAHA, Angela N.
(47) 13.09.2023	(21) EP15854211.8	GREEN, Larry Shayne
(87) JP2019032413	(47) 13.09.2023	MARCHAND, Gary R.
27.02.2020	(87) JP2015078605	EWART, Sean W.
(22) 20.08.2019	06.05.2016	SIMS, Jeffrey A.
(54) POLYPROPYLENE FILM, METAL-	(22) 08.10.2015	BLASCHKE, Chris
MEMBRANE LAYERED FILM USING	(54) PLASTIC MOLDED BODY	FAILS, Brandon
SAME, AND FILM CAPACITOR	(73) Toyo Seikan Group Holdings, Ltd.	(31) 73581 P
(73) Toray Industries, Inc.	(72) IWASAKI, Tsutomu	(32) 18.06.2008
(72) IMANISHI, Yasuyuki	AOYA, Masaki	(33) United States of America
OHKURA, Masatoshi	KIMURA, Satoo	(51) C08L 9/02
NAKANISHI, Yuta	(31) 2014220663	C08K 5/098
(31) 2018155935	(32) 29.10.2014	C08K 5/14
2018155934	(33) Japan	(11) EP3112410
(32) 23.08.2018	(51) C08J 9/28	(21) EP15756081.4
23.08.2018	(11) EP3786223	(47) 13.09.2023
(33) Japan	(21) EP20192789.4	(87) JP2015055545
Japan	(47) 13.09.2023	03.09.2015
(51) C08J 7/02	(22) 26.08.2020	(22) 26.02.2015
C08J 11/08	(54) METHOD OF PRODUCING POROUS	(54) CROSS-LINKABLE NITRILE RUBBER
(11) EP3153543	BODY OF WATER-INSOLUBLE	COMPOSITION AND CROSS-LINKED
(21) EP16192385.9	POLYMER	RUBBER PRODUCT
(47) 13.09.2023	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	(73) Zeon Corporation
(22) 05.10.2016	(72) MATSUNOBU, Kohei	(72) NAKASHIMA, Tomonori
(54) METHOD AND COMPOSITION	MINAKUCHI, Akio	INOUE, Sayaka
FOR SWELLING PRETREATMENT	UYAMA, Hiroshi	(31) 2014036624
BEFORE DECOMPOSITION OF CURED	YOSHIZAWA, Chiaki	(32) 27.02.2014
THERMOSETTING RESIN MATERIALS	(31) 2019156314	(33) Japan
(73) Korea Institute of Science and	(32) 29.08.2019	(51) C08L 23/08
Technology	(33) Japan	(11) EP3898828
(72) GOH, Munju	(51) C08K 3/00	(21) EP19832449.3
YU, Jin Won	(11) EP3423519	(47) 13.09.2023
JUNG, Jin	(21) EP17707711.2	(87) IB2019060781
YOUN, Sang Jun	(47) 13.09.2023	25.06.2020
KU, Bon-Cheol	(87) US2017015716	(22) 13.12.2019
YOU, Nam Ho	08.09.2017	

(54) POLYETHYLENE COPOLYMER COMPOSITIONS AND THEIR BARRIER PROPERTIES	JANG, Jeong Min (31) 20190142395 20180139153	KUVSHINNIKOVA, Olga I. PARTHIPAN, Balakrishnan (31) 201462084155 P
(73) Nova Chemicals (International) S.A.	(32) 08.11.2019	(32) 25.11.2014
(72) WANG, Xiaochuan	13.11.2018	(33) United States of America
SALOMONS, Stephen	(33) Korea (Republic)	(51) C08L 69/00
(31) 3028157	Korea (Republic)	C08L 83/10
(32) 20.12.2018	(51) C08L 67/02	C08K 5/5399
(33) Canada	C08G 63/16	(11) EP3688095
(51) C08L 23/20	C08G 63/00	(21) EP18862040.5
C08L 23/16	C08G 63/12	(47) 13.09.2023
(11) EP3770212	C08G 63/91	(87) CN2018103578
(21) EP19772451.1	C08K 5/07	04.04.2019
(47) 13.09.2023	(11) EP3894474	(22) 31.08.2018
(87) JP2019011651	(21) EP19828146.1	(54) POLYCARBONATE COMPOSITION
26.09.2019	(47) 13.09.2023	(73) Covestro Intellectual Property GmbH & Co. KG
(22) 20.03.2019	(87) US2019064878	(72) HUANG, Zhenyu
(54) BUTENE-BASED POLYMER COMPOSITION	18.06.2020	HAN, Hao
(73) Mitsui Chemicals, Inc.	(22) 06.12.2019	(31) 201710903032
(72) TOKUI, Shin	(54) CURABLE COMPOSITIONS COMPRISING ACETOACETYLATED RESINS, ALDEHYDES AND CERTAIN AMINES	(32) 28.09.2017
KIMURA, Tsuyoshi	(73) Eastman Chemical Company	(33) China
TSUCHIDA, Shinji	(72) DOUGHERTY, Shawn, Marie	(51) C08L 71/12
(31) 2018054528	CARVAGNO, Terri, Roxanne	B32B 1/08
(32) 22.03.2018	BOGGS, Monika Karin, Wiedmann	(11) EP3737718
(33) Japan	COLLINS, Nick, Allen	(21) EP19701746.0
(51) C08L 51/08	SHARPE, Robert, Jacks	(47) 13.09.2023
C08L 67/04	FENG, Ke	(87) US2019012149
(11) EP3820941	KUO, Thauming	18.07.2019
(21) EP19736410.2	DENG, Liu	(22) 03.01.2019
(47) 13.09.2023	BURK, Christopher, Harlan	(54) POLYPHENYLENE ETHER COMPOSITION, METHOD FOR THE MANUFACTURE THEREOF, AND ARTICLES COMPRISING THE COMPOSITION
(87) EP2019068656	BHONDE, Vasudev, R.	(73) SHPP Global Technologies B.V.
16.01.2020	(31) 201962916503 P	(72) ZIEGLER, Christopher, Ryan
(22) 11.07.2019	201962900939 P	KOEVOETS, Christiaan, Henricus, Johannes
(54) A GRAFTED POLYLACTIC ACID	201862777880 P	LEE, Jung, Ah
(73) BYK-Chemie GmbH	201862777876 P	(31) 18150969
(72) RAPTHEL, Inno	201862777871 P	(32) 10.01.2018
PIESTERT, Frederik	201862777865 P	(33) European Patent Office (EPO)
RAPTHEL, Andre	(32) 17.10.2019	(51) C08L 73/00
KRÖLLER, Thorsten	16.09.2019	C08K 9/04
GIESEN, Patricia	11.12.2018	C08K 3/04
BACHMANN, Lisa	11.12.2018	C08K 3/30
(31) 18183553	11.12.2018	C08L 27/16
(32) 13.07.2018	11.12.2018	C08L 27/18
(33) European Patent Office (EPO)	11.12.2018	C08K 3/34
(51) C08L 55/02	11.12.2018	C08K 3/36
C08L 25/12	(33) United States of America	C08L 77/02
C08L 25/14	United States of America	C09D 171/00
C08L 33/08	United States of America	(11) EP3825360
C08F 285/00	United States of America	(21) EP20812949.4
C08F 265/04	United States of America	(47) 13.09.2023
C08L 33/12	United States of America	(87) CN2020090857
C08L 51/04	United States of America	03.12.2020
C08F 220/14	(51) C08L 69/00	(22) 18.05.2020
C08F 220/18	C08K 5/3432	(54) LINING MATERIAL FOR NON-METALLIC FLEXIBLE COMPOSITE PIPE AND PREPARATION METHOD THEREFOR
(11) EP3778769	(11) EP3224318	(73) China Merchants Marine and Offshore Research Institute Co., Ltd.
(21) EP19883421.0	(21) EP15816921.9	China University of Petroleum-Beijing
(47) 13.09.2023	(47) 13.09.2023	(72) XU, Lixin
(87) KR2019015347	(87) US2015061760	MENG, Xiaoyu
22.05.2020	02.06.2016	
(22) 12.11.2019	(22) 20.11.2015	
(54) THERMOPLASTIC RESIN COMPOSITION	(54) WEATHERABLE THERMOPLASTIC COMPOSITIONS, METHOD OF MANUFACTURE, AND ARTICLES THEREFROM	
(73) LG CHEM, LTD.	(73) SHPP Global Technologies B.V.	
(72) PARK, Chun Ho	(72) SYBERT, Paul Dean	
HWANG, Yong Yeon	SHARMA, Yogesh Omprakash	
SUNG, Da Eun	GUPTA, Samik	
AN, Yong Hee		



CAO, Hui	(51) C09D 5/33	(54) METHOD FOR MANUFACTURING
CONG, Chuanbo	C09D 5/02	WHITE FINE PARTICLE DISPERSION
GUO, Qinjing	C09D 133/02	(73) Kao Corporation
ZHOU, Qiong	C09D 163/00	(72) YOSHIDA, Tomohide
LIU, Jiancheng	(11) EP3467053	UEDA, Yasufumi
(31) 201910444766	(21) EP18197802.4	(31) 2016253410
(32) 25.05.2019	(47) 13.09.2023	(32) 27.12.2016
(33) China	(22) 28.09.2018	(33) Japan
(51) C09D 5/00	(54) TRAFFIC PAINT FORMULATION	(51) C09D 11/52
(11) EP4019593	(73) Rohm and Haas Company	C23C 18/31
(21) EP21215276.3	(72) DECATO, Sarah	C23C 18/14
(47) 13.09.2023	GALLAGHER, Joy A.	C30B 7/06
(22) 16.12.2021	GREYSON, Eric C.	C09D 5/24
(54) A PHOSPHATE COATING WHICH	FU, Zhenwen	C09D 11/101
CAN BE SUBSTANTIALLY FREE	(31) 201762568370 P	C09D 1/00
OF HEXAVALENT CHROMIUM AND	(32) 05.10.2017	C09D 11/033
METHODS OF MAKING THE SAME	(33) United States of America	C09D 11/037
(73) Hamilton Sundstrand Corporation	(51) C09D 11/101	C09D 11/322
(72) Smith, Blair A.	C09D 11/30	C09D 11/36
Poteet, Steven	C09D 11/10	C23C 18/08
Pujar, Vijay V.	(11) EP3601452	(11) EP3887463
Zafiris, Georgios S.	(21) EP18720672.7	(21) EP19892623.0
Zhang, Weilong	(47) 13.09.2023	(47) 13.09.2023
Kryzman, Michael A.	(87) JP2018014035	(87) IB2019060441
(31) 202017131972	04.10.2018	11.06.2020
(32) 23.12.2020	(22) 26.03.2018	(22) 04.12.2019
(33) United States of America	(54) RADIATION CURABLE INK	(54) COMPOSITION FOR FORMING A
(51) C09D 5/16	COMPOSITIONS, PRINTED ARTICLES,	PATTERNED METAL FILM ON A
(11) EP4056657	AND METHODS OF USING THE SAME	SUBSTRATE
(21) EP21216868.6	(73) Kao Corporation	(73) Oreltech Ltd.
(47) 13.09.2023	(72) CONTRACTOR, Muslim	(72) ZAMOSHCHIK, Natalia
(22) 22.12.2021	CUMMINGS, Stephen	LIVANOV, Konstantin
(54) ICE PROTECTION COATING AND	BUCHANAN, Stephen	(31) 201862776627 P
BONDING METHODS THEREOF	(31) 201762479583 P	(32) 07.12.2018
(73) The Boeing Company	(32) 31.03.2017	(33) United States of America
(72) BROUWERS, Edward W.	(33) United States of America	(51) C09D 133/06
NOWAK, Andrew	(51) C09D 11/16	C09D 129/04
PRIFTIS, Dimitrios	C09D 11/18	C08F 20/12
VENTULETH, Michael Jared	B43K 1/12	C08F 212/08
YOUNG, Kenneth W.	B43K 8/02	C08L 33/06
(31) 202163158735 P	(11) EP3632997	C08L 29/04
(32) 09.03.2021	(21) EP18806468.7	D21H 19/56
(33) United States of America	(47) 13.09.2023	D21H 19/40
(51) C09D 5/16	(87) JP2018009316	D21H 19/54
C09D 133/02	29.11.2018	D21H 19/50
C09D 7/61	(22) 09.03.2018	B65D 65/42
C09D 7/63	(54) OIL-BASED INK COMPOSITION FOR	(11) EP3397705
C09D 133/06	WRITING INSTRUMENT	(21) EP16881325.1
C09D 7/40	(73) Mitsubishi Pencil Company, Limited	(47) 13.09.2023
(11) EP3480268	(72) HARUHARA, Yumiko	(87) FI2016050928
(21) EP16907369.9	(31) 2017100995	06.07.2017
(47) 13.09.2023	(32) 22.05.2017	(22) 28.12.2016
(87) JP2016083820	(33) Japan	(54) WATER-BASED BARRIER COATINGS
04.01.2018	(51) C09D 11/322	(73) Kemira OYJ
(22) 15.11.2016	C09D 7/62	(72) TURKKI, Tarja
(54) ANTIFOULING COATING	C09D 11/037	LI, Sai
COMPOSITION, ANTIFOULING	C09D 17/00	AHLGREN, Jonni
COATING FILM, BASE MATERIAL	C08K 3/22	(31) 20156036
PROVIDED WITH ANTIFOULING	C08K 9/10	(32) 31.12.2015
COATING FILM, METHOD	C09D 11/107	(33) Finland
FOR PRODUCING SAME, AND	C09D 11/326	(51) C09D 151/00
ANTIFOULING METHOD	(11) EP3564328	C08F 265/06
(73) Chugoku Marine Paints, Ltd.	(21) EP17889141.2	(11) EP3562896
(72) TANINO, Soichiro	(47) 13.09.2023	(21) EP16924940.6
HAYASHI, Yusuke	(87) JP2017046228	(47) 13.09.2023
(31) 2016131987	05.07.2018	(87) CN2016112553
(32) 01.07.2016	(22) 22.12.2017	05.07.2018
(33) Japan		(22) 28.12.2016

(54) AQUEOUS POLYMER DISPERSION AND PROCESS OF MAKING THE SAME	(72) Krawczyk, Krzysztof Patter, Paul	(31) 2015119665 (32) 12.06.2015 (33) Japan
(73) Dow Global Technologies LLC	(51) C09J 4/00	(51) C09J 175/04
(72) YANG, Xiaohong	C08F 224/00	C08G 18/10
WU, Yan	C08F 222/10	C08L 71/02
XU, Yawei	C08F 220/10	C08K 5/54
(51) C09D 167/00	(11) EP3830204	(11) EP3728508
(11) EP3874001	(21) EP19745127.1	(21) EP18893209.9
(21) EP19790235.6	(47) 13.09.2023	(47) 13.09.2023
(47) 13.09.2023	(87) EP2019069974	(87) US2018066350
(87) EP2019079318	06.02.2020	27.06.2019
07.05.2020	(22) 24.07.2019	(22) 19.12.2018
(22) 28.10.2019	(54) ANAEROBICALLY CURABLE COMPOSITIONS CONTAINING ALPHA-METHYLENE-LACTONES	(54) SILANE-TERMINATED POLYURETHANE CROSSLINKING POLYMER FOR HIGH TENSILE STRENGTH ADHESIVE
(54) LOW BAKE POWDER COATING RESINS	(73) Henkel AG & Co. KGaA	(73) Henkel AG & Co. KGaA
(73) Allnex USA Inc.	(72) BRANDT, Adrian	(72) Li, Yufang
Allnex Italy Srl	BECK, Horst	BENITEZ MARTINEZ, Raul
(72) CAVALIERI, Roberto	TADEN, Andreas	ASHTON, Henry
EZEAGU, Callistus Ugoh	NEMITZ, Ralph	(31) 201762609428 P
(31) 201862751797 P	KUX, Alexander	(32) 22.12.2017
19157915	SWEENEY, Nigel	(33) United States of America
18214348	BIRKETT, David	(51) C09J 179/04
(32) 29.10.2018	KNEAFSEY, Brendan	C09J 9/02
19.02.2019	HOULIHAN, James A.	C09J 11/04
20.12.2018	DOHERTY, Michael	H01B 1/22
(33) United States of America	(31) 201812478	H01L 21/52
European Patent Office (EPO)	(32) 31.07.2018	C09J 7/10
European Patent Office (EPO)	(33) United Kingdom	C08K 3/08
(51) C09D 183/04	(51) C09J 7/10	C08K 9/02
B05D 5/00	C09J 7/30	(11) EP3540025
B05D 7/24	C09J 4/00	(21) EP16921201.6
B32B 27/00	C09J 11/06	(47) 13.09.2023
B32B 27/18	H01L 21/301	(87) JP2016083349
C09D 5/16	H01L 21/52	17.05.2018
C09D 7/20	H01L 21/60	(22) 10.11.2016
C09D 7/63	C09J 7/20	(54) SEMICONDUCTOR-BONDING RESIN COMPOSITION, SEMICONDUCTOR-BONDING SHEET, AND SEMICONDUCTOR DEVICE USING SEMICONDUCTOR-BONDING SHEET
C09D 7/65	C09J 179/00	(73) Kyocera Corporation
(11) EP3862400	H01L 23/00	(72) FUJIWARA Masakazu
(21) EP19869797.1	(11) EP3187557	FUKUKAWA Hiroshi
(47) 13.09.2023	(21) EP15835827.5	(51) C09K 8/588
(87) JP2019039296	(47) 13.09.2023	(11) EP3770232
09.04.2020	(87) JP2015072714	(21) EP20187434.4
(22) 04.10.2019	03.03.2016	(47) 13.09.2023
(54) ANTIFOULING COATING COMPOSITION, ANTIFOULING COATING FILM, SUBSTRATE WITH ANTIFOULING COATING FILM AND METHOD FOR PRODUCING SAME	(22) 10.08.2015	(22) 23.07.2020
(73) Chugoku Marine Paints, Ltd.	(54) ADHESIVE FILM AND SEMICONDUCTOR PACKAGE USING ADHESIVE FILM	(54) COMPOSITION FOR OIL AND GAS RECOVERY
(72) OSAWA, Keisuke	(73) Furukawa Electric Co., Ltd.	(73) SNF Group
AOI, Atsushi	(72) KIRIKAE, Noriyuki	(72) FAVERO, Cédric
TANINO, Soichiro	AOYAMA, Masami	(31) 201916523599
IKADAI, Junnai	(31) 2014176257	(32) 26.07.2019
(31) 2018189994	(32) 29.08.2014	(33) United States of America
(32) 05.10.2018	(33) Japan	(51) C09K 11/02
(33) Japan	(51) C09J 7/40	C09K 11/70
(51) C09D 183/04	C09J 7/10	C09K 11/88
C09D 11/38	(11) EP3307843	(11) EP3653685
C08K 5/07	(21) EP16808061.2	(21) EP18832108.7
(11) EP4074790	(47) 13.09.2023	(47) 13.09.2023
(21) EP21167848.7	(87) US2016035653	(87) CN2018079626
(47) 13.09.2023	15.12.2016	17.01.2019
(22) 12.04.2021	(22) 03.06.2016	(22) 20.03.2018
(54) INHIBITORS OF HYDROSILYLATION CATALYSTS	(54) ARTICLE PROVIDED WITH ADHESIVE LAYER AND RELEASE LAYER	
(73) Joanneum Research	(73) 3M Innovative Properties Company	
Forschungsgesellschaft mbH	(72) SAKURAI, Aizoh	
	KAKINUMA, Yoshiteru	
	LIU, Bing	

(54) QUANTUM DOT PREPARATION METHOD	C10B 1/04 C10B 57/16	(54) A LUBRICATING COMPOSITION AND METHOD FOR PREPARING THE SAME
(73) TCL Technology Group Corporation	C10B 47/16	(73) H & S Patents, LLC
(72) YANG, Yixing	C10B 47/20	(72) Randisi, Sal A.
NIE, Zhiwen	(11) EP3919586	(31) 201313694911
QIU, Jielong	(21) EP20178360.2	(32) 18.01.2013
YANG, Chengyu	(47) 13.09.2023	(33) United States of America
(31) 201710560387	(22) 04.06.2020	(51) C10N 30/00
201710560424	(54) DEVICE FOR PRODUCING VEGETABLE CHARCOAL BY PYROLYSIS OF BIOMASS	C10N 30/06
(32) 11.07.2017		C10N 40/00
11.07.2017		C23C 28/00
(33) China	(73) Schuster, Reimund	C23C 26/00
China	(72) SCHUSTER, Reimund	F16L 15/04
(51) C09K 11/02	(51) C10G 1/10	C10M 169/06
H01L 33/56	C10B 53/07	C10M 169/04
H05B 33/04	(11) EP3844247	F16L 57/06
(11) EP3658646	(21) EP19854489.2	F16L 15/08
(21) EP18749936.3	(47) 13.09.2023	F16B 33/06
(47) 13.09.2023	(87) IB2019057228	C25D 3/56
(87) US2018041960	05.03.2020	C25D 3/58
31.01.2019	(22) 28.08.2019	C25D 5/10
(22) 13.07.2018	(54) A METHOD FOR CATALYTIC CONVERSION OF WASTE PLASTIC INTO LIQUID FUEL	C10N 10/04
(54) METHOD OF MANUFACTURING AN OPTOELECTRONIC DEVICE		C10N 20/04
(73) DDP Specialty Electronic Materials US 9, LLC	(73) Reliance Industries Limited	C10N 50/00
Rohm and Haas Electronic Materials LLC	(72) DAGGUPATI, Sateesh	C23C 22/13
DuPont Toray Specialty Materials	THAKUR, Sayani	C23C 22/18
Kabushiki Kaisha	MAJHI, Sachchit	C23C 24/04
(72) AMAKO, Masaaki	MANDAL, Sukumar	C23C 28/02
FENG, Anna Ya Ching	DAS, Asit Kumar	C23C 30/00
NISHIDA, Fumito	SAPRE, Ajit Vishwanath	C25D 3/12
(31) 201762537553 P	(31) 201821032224	C25D 3/30
(32) 27.07.2017	(32) 28.08.2018	C25D 3/38
(33) United States of America	(33) India	C25D 5/12
(51) C09K 17/02	(51) C10G 45/64	C25D 5/36
E02D 3/054	B01J 23/08	C25D 7/00
E02D 3/08	C01B 3/38	C25D 7/04
E02D 5/44	C10G 1/06	(11) EP3910048
(11) EP3789469	C10G 2/00	(21) EP19908389.0
(21) EP20175793.7	(11) EP3710562	(47) 13.09.2023
(47) 13.09.2023	(21) EP17808702.9	(87) JP2019050986
(22) 20.05.2020	(47) 13.09.2023	16.07.2020
(54) METHOD FOR PRODUCING A BASE MODULE	(87) US2017061787	(22) 25.12.2019
(73) Keller Holding GmbH	23.05.2019	(54) COMPOSITION, AND THREADED CONNECTION FOR PIPES INCLUDING LUBRICANT COATING LAYER FORMED FROM THE COMPOSITION
(72) BUBENICEK, Michal	(22) 15.11.2017	(73) NIPPON STEEL CORPORATION
(51) C09K 19/30	(54) PROCESS FOR REFORMING OF METHANE AND LIGHT HYDROCARBONS TO LIQUID HYDROCARBON FUELS	Vallourec Oil and Gas France
C09K 19/34	(73) Gas Technology Institute	(72) GOTO, Kunio
C09K 19/04	(72) MARKER, Terry L.	ABE, Tomoka
C09K 19/12	LINCK, Martin B.	(31) 2019000871
(11) EP3877484	WANGEROW, Jim	(32) 07.01.2019
(21) EP19800957.3	ORTIZ-TORAL, Pedro	(33) Japan
(47) 13.09.2023	(51) C10M 157/02	(51) C11D 1/66
(87) EP2019080031	C10M 169/06	C11D 1/83
14.05.2020	C10M 161/00	C11D 11/00
(22) 04.11.2019	C10M 177/00	C11D 17/04
(54) LIQUID-CRYSTALLINE MEDIUM AND LIQUID-CRYSTAL DISPLAY COMPRISING THE SAME	C10N 30/06	(11) EP4196559
(73) Merck Patent GmbH	C10N 30/00	(21) EP21748640.6
(72) GOETZ, Achim	C10N 50/10	(47) 13.09.2023
BROCKE, Constanze	C10N 70/00	(87) EP2021070796
(31) 18205018	(11) EP2946002	17.02.2022
(32) 07.11.2018	(21) EP14740697.9	(22) 26.07.2021
(33) European Patent Office (EPO)	(47) 13.09.2023	(54) LAUNDRY DETERGENT COMPOSITION
(51) C10B 3/02	(87) US2014012078	(73) Unilever IP Holdings B.V.
C10B 53/02	24.07.2014	(72) FICHE, Arlene
	(22) 17.01.2014	

PARRY, Alyn, James GREEN, Andrew, David (31) 20197849 20190669 20190667 (32) 23.09.2020 12.08.2020 12.08.2020 (33) European Patent Office (EPO) European Patent Office (EPO) European Patent Office (EPO)	C12R 1/01 (11) EP3633023 (21) EP17911921.9 (47) 13.09.2023 (87) KR2017015477 06.12.2018 (22) 26.12.2017 (54) STRAIN IN MICROBACTERIUM AND METHOD FOR PRODUCING PSICOSE USING SAME (73) Samyang Corporation (72) PARK, Bu-Soo HAN, Eun Jin LEE, Sang-Hee KWON, Soun Gyu KIM, Jin Ha PARK, Chong Jin (31) 20170069265 (32) 02.06.2017 (33) Korea (Republic)	FOR PRODUCING MONOCLONAL ANTIBODY USING THE SAME (73) Kaneka Corporation Tokyo University of Science Foundation (72) MOUTAI Tatsuya NAKAISHI Tomoyuki KITA Hiroshi KITANO Mitsuaki KITAMURA Daisuke (31) 2017004860 (32) 16.01.2017 (33) Japan
(51) C11D 17/04 B65D 65/46 (11) EP4069813 (21) EP20797498.1 (47) 13.09.2023 (87) EP2020080708 10.06.2021 (22) 02.11.2020 (54) BIODEGRADABLE PACKAGE CONTAINING WATER-SOLUBLE CAPSULES (73) Unilever IP Holdings B.V. (72) PARRY, Alyn, James (31) 19213928 (32) 05.12.2019 (33) European Patent Office (EPO)	(72) PARK, Bu-Soo HAN, Eun Jin LEE, Sang-Hee KWON, Soun Gyu KIM, Jin Ha PARK, Chong Jin (31) 20170069265 (32) 02.06.2017 (33) Korea (Republic)	(31) 2017004860 (32) 16.01.2017 (33) Japan
(51) C11D 17/04 C11D 11/00 C11D 3/386 D06F 39/02 (11) EP3013934 (21) EP14728578.7 (47) 13.09.2023 (87) EP2014061863 31.12.2014 (22) 06.06.2014 (54) STAIN TREATMENT DEVICE AND PROCESS (73) Unilever IP Holdings B.V. (72) BENSON, Paul COOLEY, Stuart Stephen SMITH, Elizabeth Jane (31) 13174148 (32) 27.06.2013 (33) European Patent Office (EPO)	(51) C12N 5/07 C12N 11/00 C07K 14/715 (11) EP2853588 (21) EP14189654.8 (47) 13.09.2023 (22) 27.06.2003 (54) Methods of organ regeneration (73) The General Hospital Corporation (72) Faustman, Denise L. (31) 358664 392687 P (32) 05.02.2003 27.06.2002 (33) United States of America United States of America	(51) C12N 5/0783 C07K 14/54 C07K 14/725 C07K 14/735 C07K 16/28 A61K 35/17 A61K 39/00 A61K 39/395 (11) EP3307876 (21) EP16808427.5 (47) 13.09.2023 (87) US2016036991 15.12.2016 (22) 10.06.2016 (54) MODIFIED NK-92 CELLS FOR TREATING CANCER (73) ImmunityBio, Inc. (72) LEE, Tien (31) 201662337044 P 201562173701 P (32) 16.05.2016 10.06.2015 (33) United States of America United States of America
(51) C12M 3/00 (11) EP3313982 (21) EP16815316.1 (47) 13.09.2023 (87) US2016039044 29.12.2016 (22) 23.06.2016 (54) METHODS AND APPARATUS FOR CONDITIONING CELL POPULATIONS FOR CELL THERAPIES (73) Board Of Regents Of the University Of Texas System (72) COX, Charles S. GILL, Brijesh S. AROOM, Kevin WENZEL, Pamela (31) 201562183273 P (32) 23.06.2015 (33) United States of America	(51) C12N 5/071 (11) EP3963050 (21) EP20721612.8 (47) 13.09.2023 (87) EP2020061987 05.11.2020 (22) 30.04.2020 (54) PREPARATION OF HUMAN ALLOGENEIC LIVER-DERIVED PROGENITOR CELLS (73) Cellaion SA (72) STRAGIER, Patrick PINXTEREN, Jozef DELTOUR, Elodie BOVY, Thierry (31) 19172076 (32) 30.04.2019 (33) European Patent Office (EPO)	(51) C12N 5/10 C07K 16/12 C07K 16/00 G01N 33/68 (11) EP3421592 (21) EP18180603.5 (47) 13.09.2023 (22) 27.04.2012 (54) IDENTIFICATION OF POLYNUCLEOTIDES ASSOCIATED WITH A SAMPLE (73) The Board of Trustees of the Leland Stanford Junior University Department of Veterans Affairs (72) ROBINSON, William H. TAN, Yann Chong SOKOLOVE, Jeremy (31) 201261608571 P 201261599870 P 201161575652 P 201161517976 P (32) 08.03.2012 16.02.2012 24.08.2011 28.04.2011 (33) United States of America United States of America United States of America United States of America
(51) C12N 1/20 C12P 19/02 C12R 1/32	(51) C12N 5/0781 C07K 16/32 C07K 16/24 C07K 16/00 A61K 39/00 (11) EP3569700 (21) EP18738756.8 (47) 13.09.2023 (87) JP2018000757 19.07.2018 (22) 15.01.2018 (54) METHOD FOR PRODUCING B CELL POPULATION AND METHOD	(51) C12N 7/00 A61K 39/12 C12N 5/071

(11) EP3918057	(33) China	(47) 13.09.2023
(21) EP20703950.4	(51) C12N 15/10	(87) US2014013712
(47) 13.09.2023	C12Q 1/6806	07.08.2014
(87) EP2020052061	C12Q 1/6816	(22) 30.01.2014
06.08.2020	C12Q 1/6844	(54) RECOMBINANT MICROORGANISMS
(22) 28.01.2020	C12Q 1/6813	COMPRISING NADPH DEPENDENT
(54) PRODUCTION OF VIRUSES IN	C12Q 1/6869	ENZYMES AND METHODS OF
CONTINUOUSLY GROWING	(11) EP3810774	PRODUCTION THEREOF
EPITHELIAL CELL LINES DERIVED	(21) EP19814056.8	(73) LanzaTech NZ, Inc.
FROM CHICKEN GUT	(47) 13.09.2023	(72) MUELLER, Alexander
(73) Freie Universität Berlin	(87) US2019035422	KOEPKE, Michael
Tetanus Pharma & Med Deutschland	12.12.2019	(31) 201361828675 P
GmbH	(22) 04.06.2019	201361758441 P
(72) VEIT, Michael	(54) METHODS OF MAKING HIGH-	(32) 29.05.2013
HÖFER, Chris Tina	THROUGHPUT SINGLE-CELL	30.01.2013
RUDY, Wolfgang	TRANSCRIPTOME LIBRARIES	(33) United States of America
(31) 19154039	(73) Illumina, Inc.	United States of America
(32) 28.01.2019	University of Washington	(51) C12N 15/85
(33) European Patent Office (EPO)	(72) STEEMERS, Frank J.	C12N 5/0781
(51) C12N 9/22	SHENDURE, Jay	(11) EP3277823
C12N 15/10	CAO, Junyue	(21) EP16716781.6
C12N 15/82	TOME, Jacob	(47) 13.09.2023
(11) EP4025691	GASPERINI, Molly	(87) US2016025920
(21) EP21765836.8	(31) 201962821678 P	06.10.2016
(47) 13.09.2023	201862680259 P	(22) 04.04.2016
(87) EP2021000081	(32) 21.03.2019	(54) COMPOSITION AND METHODS OF
27.01.2022	04.06.2018	GENOME EDITING OF B-CELLS
(22) 20.07.2021	(33) United States of America	(73) Dana-Farber Cancer Institute, Inc.
(54) NOVEL, NON-NATURALLY	United States of America	(72) GOLDBERG, Michael
OCCURRING CRISPR-CAS	(51) C12N 15/113	GREINER, Vera
NUCLEASES FOR GENOME EDITING	(11) EP3434771	(31) 201562142882 P
(73) BRAIN Biotech AG	(21) EP18176250.1	(32) 03.04.2015
(72) SCHOLZ, Paul	(47) 13.09.2023	(33) United States of America
ZUREK, Christian	(22) 17.12.2013	(51) C12N 15/86
KROHN, Michael	(54) PLANT REGULATORY ELEMENTS AND	C07K 16/10
(31) 20000329	USES THEREOF	A61K 39/29
20000262	(73) Monsanto Technology LLC	(11) EP3320099
(32) 10.09.2020	(72) FLASINSKI, Stanislaw	(21) EP16738128.4
21.07.2020	(31) 201261739720 P	(47) 13.09.2023
(33) European Patent Office (EPO)	(32) 19.12.2012	(87) EP2016066349
European Patent Office (EPO)	(33) United States of America	12.01.2017
(51) C12N 9/28	(51) C12N 15/113	(22) 08.07.2016
C12N 15/56	C12N 15/10	(54) LENTIVIRAL VECTOR EXPRESSING
C12N 15/75	C12N 15/63	MEMBRANE-ANCHORED OR
(11) EP3783102	C12N 9/22	SECRETED ANTIBODY
(21) EP19770537.9	C12N 15/90	(73) Institut National de la Santé et de la
(47) 13.09.2023	(11) EP3353298	Recherche Médicale (INSERM)
(87) CN2019079000	(21) EP16849508.3	Université Claude Bernard Lyon 1
26.09.2019	(47) 13.09.2023	Centre National de la Recherche
(22) 21.03.2019	(87) US2016052889	Scientifique
(54) AMYLASE MUTANT HAVING HIGH	30.03.2017	Ecole Normale Supérieure De Lyon
SPECIFIC ACTIVITY AND THERMAL	(22) 21.09.2016	(72) FUSIL, Floriane
STABILITY, GENE OF MUTANT, AND	(54) ALLELE SELECTIVE GENE EDITING	VERHOEYEN, Els
APPLICATIONS THEREOF	AND USES THEREOF	DEFRANCE, Thierry
(73) Feed Research Institute, Chinese	(73) Arcturus Therapeutics, Inc.	COSSET, François-Loïc
Academy of Agricultural Sciences	(72) CHIVUKULA, Padmanabh	(31) 15306132
(72) YAO, Bin	WILKIE-GRANTHAM, Rachel	(32) 09.07.2015
LUO, Huiying	TACHIKAWA, Kiyoshi	(33) European Patent Office (EPO)
QIU, Jin	(31) 201662330827 P	(51) C12N 15/863
TU, Tao	201562221407 P	C12N 15/63
HUANG, Huoqing	(32) 02.05.2016	(11) EP3305904
WANG, Yuan	21.09.2015	(21) EP16803687.9
WANG, Yaru	(33) United States of America	(47) 13.09.2023
BAI, Yingguo	United States of America	(87) KR2016005647
SU, XiaoYun	(51) C12N 15/52	08.12.2016
MENG, Kun	C12N 9/02	(22) 27.05.2016
(31) 201810235559	(11) EP2951286	(54) POXVIRUS-DERIVED PROMOTER,
(32) 21.03.2018	(21) EP14745530.7	AND VECTOR COMPRISING SAME

(73) Kolon Life Science, Inc.	JONES, Allison	GRAY, Jeremy
(72) KIM, Sujeong	EVANS, Iona	YU, Hua
KIM, Minjung	LEMPIÄINEN, Harri	(31) 201862719078 P
CHOI, Hwanjun	EICHNER, Johannes	201762582597 P
(31) 20150076197	RUJAN, Tamas	(32) 16.08.2018
(32) 29.05.2015	WITTENBERGER, Timo	07.11.2017
(33) Korea (Republic)	PAPROTKA, Tobias	(33) United States of America
(51) C12P 19/14	LINDNER, Benjamin	United States of America
B01D 61/14	(31) 16204822	(51) C12Q 1/6823
B01D 65/02	(32) 16.12.2016	C12Q 1/6869
B01D 65/06	(33) European Patent Office (EPO)	(11) EP3523444
B09B 3/00	(51) C12Q 1/6806	(21) EP17781436.5
C13K 1/02	C12Q 1/6816	(47) 13.09.2023
B01D 61/16	C12Q 1/682	(87) EP2017074682
C13B 20/16	C12Q 1/6841	12.04.2018
(11) EP3276008	(11) EP4063519	(22) 28.09.2017
(21) EP16768786.2	(21) EP22173719.0	(54) NUCLEIC ACID SEQUENCING USING
(47) 13.09.2023	(47) 13.09.2023	NANOTRANSISTORS
(87) JP2016059079	(22) 08.04.2019	(73) F. Hoffmann-La Roche AG
29.09.2016	(54) METHODS TO FURTHER ENHANCE	(72) ASTIER, Yann
(22) 23.03.2016	SIGNAL AMPLIFICATION FOR THE IN	(31) 201662404732 P
(54) METHOD FOR PRODUCING SUGAR	SITU DETECTION OF NUCLEIC ACIDS	(32) 05.10.2016
SOLUTION	(73) Advanced Cell Diagnostics, Inc.	(33) United States of America
(73) Toray Industries, Inc.	(72) LUO, Yuling	(51) C12Q 1/6855
(72) ASAH, Yuka	MA, Xiao-Jun	(11) EP4168581
MINAMINO, Atsushi	CHEN, Steve	(21) EP22762012.7
KURIHARA, Hiroyuki	SU, Nan	(47) 13.09.2023
HIGASA, Masashi	DOOLITTLE, Emerald	(87) EP2022072077
YAMADA, Katsushige	ZHANG, Bingqing	16.02.2023
(31) 2015061103	WANG, Xiaoming	(22) 05.08.2022
(32) 24.03.2015	WU, Xingyong	(54) ADVANCED DUMBBELL PCR FOR
(33) Japan	PIMENTEL, Xiao Yan	ISOMIR DETECTION
(51) C12P 21/02	JARNAGIN, Helen	(73) Hummingbird Diagnostics GmbH
C12N 15/67	(31) 201862667237 P	(72) HOROS, Rastislav
C12P 21/00	201862655143 P	STEINKRAUS, Bruno
(11) EP3665286	(32) 04.05.2018	(31) 21190781
(21) EP18752135.6	09.04.2018	(32) 11.08.2021
(47) 13.09.2023	(33) United States of America	(33) European Patent Office (EPO)
(87) EP2018071229	United States of America	(51) C12Q 1/6858
14.02.2019	(51) C12Q 1/6806	C12N 15/11
(22) 06.08.2018	C12Q 1/6832	(11) EP3382039
(54) CELL-FREE PROTEIN EXPRESSION	C12Q 1/6834	(21) EP18172421.2
USING DOUBLE-STRANDED	G01N 33/50	(47) 13.09.2023
CONCATAMERIC DNA	(11) EP3587589	(22) 04.05.2012
(73) Global Life Sciences Solutions	(21) EP18180259.6	(54) METHODS FOR DETECTING NUCLEIC
Operations UK Ltd	(47) 13.09.2023	ACID SEQUENCE VARIANTS
(72) KVAM, Erik, Leeming	(22) 28.06.2018	(73) Biocept, Inc.
NELSON, John, Richard	(54) REAGENTS AND METHODS FOR	AEGEA Biotechnologies
GAO, Wei	THE ANALYSIS OF CIRCULATING	(72) ARNOLD, Lyle
(31) 201715631510	MICROPARTICLES	(31) 201161482576 P
(32) 11.08.2017	(73) CS Genetics Limited	(32) 04.05.2011
(33) United States of America	(72) EDELMAN, Lucas, Brandon	(33) United States of America
(51) C12Q 1/68	(31) 201810571	(51) C12Q 1/6869
(11) EP3555309	(32) 27.06.2018	(11) EP3969618
(21) EP17836012.9	(33) United Kingdom	(21) EP21712731.5
(47) 13.09.2023	(51) C12Q 1/6806	(47) 13.09.2023
(87) EP2017083159	C12Q 1/6874	(87) EP2021055939
21.06.2018	(11) EP3707274	16.09.2021
(22) 15.12.2017	(21) EP18808182.2	(22) 09.03.2021
(54) EPIGENETIC MARKERS AND	(47) 13.09.2023	(54) METHODS FOR SEQUENCING
RELATED METHODS AND MEANS FOR	(87) US2018059710	POLYNUCLEOTIDES
THE DETECTION AND MANAGEMENT	16.05.2019	(73) Illumina, Inc.
OF OVARIAN CANCER	(22) 07.11.2018	(72) PEACE, Jared
(73) Eurofins Genomics Europe Sequencing	(54) METHODS AND COMPOSITIONS FOR	BOJANOVIC MACHADO, Klara
GmbH	MANIPULATING NUCLEIC ACIDS	MCINERNEY, Peter
Genedata AG	(73) Life Technologies Corporation	BOUTELL, Jonathan, Mark
UCL Business Ltd	(72) ROSENBAUM, Abraham	(31) 202062987035 P
(72) WIDSCHWENDTER, Martin	SEEGER, Collyn	(32) 09.03.2020

(33) United States of America	United States of America	C22C 38/04
(51) C12Q 1/6883	United States of America	C22C 38/00
C12Q 1/689	(51) C14B 1/56	C22C 38/02
(11) EP3807421	C14C 7/00	C22C 38/38
(21) EP19728456.5	C14C 11/00	B23K 101/06
(47) 13.09.2023	C09D 175/04	B23K 103/04
(87) EP2019064949	(11) EP3867413	(11) EP3730641
19.12.2019	(21) EP19779941.4	(21) EP18890446.0
(22) 07.06.2019	(47) 13.09.2023	(47) 13.09.2023
(54) METHOD FOR EARLY DETECTION OF A NECROTIC ENTERITIS OUTBREAK IN AN AVIAN POPULATION	(87) EP2019077208	(87) KR2018013943
(73) Evonik Operations GmbH	23.04.2020	27.06.2019
(72) IGWE, Emeka Ignatius	(22) 08.10.2019	(22) 15.11.2018
BÖHL, Florian	(54) METHOD OF MANUFACTURING DECORATED LEATHER	(54) HOT-ROLLED STEEL SHEET HAVING EXCELLENT EXPANDABILITY AND METHOD FOR MANUFACTURING SAME
KAPPEL, Andreas	(73) AGFA NV	(73) POSCO Co., Ltd
THIEMANN, Frank	(72) DE ROECK, Luc	(72) NA, Hyun-Taek
WEISSMANN, Michaela	(31) 18200858	(73) POSCO Co., Ltd
WICKER, David L.	(32) 17.10.2018	(72) NA, Hyun-Taek
MARTIN, Ken	(33) European Patent Office (EPO)	SEO, Seok-Jong
MIDDLEBROOKS, Casey	(51) C21B 5/00	(31) 20170177510
TILLEY, Sarah	C21B 5/02	(32) 21.12.2017
SMITH, Janet	C21B 7/16	(33) Korea (Republic)
(31) 201862685443 P	(11) EP3933053	(51) C21D 7/13
18179891	(21) EP20778098.2	B21J 1/00
(32) 15.06.2018	(47) 13.09.2023	C21D 9/08
26.06.2018	(87) JP2020013733	C21D 9/28
(33) United States of America	01.10.2020	(11) EP3670679
European Patent Office (EPO)	(22) 26.03.2020	(21) EP19200310.1
(51) C12Q 1/6886	(54) METHOD FOR OPERATION OF BLAST FURNACE	(47) 13.09.2023
C12Q 1/70	(73) KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.)	(22) 28.09.2019
(11) EP3580353	(72) IKUTA Shoji	(54) HIGH-PRESSURE-TORSION APPARATUS AND METHOD OF MODIFYING MATERIAL PROPERTIES OF WORKPIECES USING SUCH APPARATUS
(21) EP18750644.9	KASAI Akito	(73) The Boeing Company
(47) 13.09.2023	(31) 2019063381	(72) VERMA, Ravi
(87) CN2018075474	(32) 28.03.2019	(31) 201816227531
16.08.2018	(33) Japan	(32) 20.12.2018
(22) 06.02.2018	(51) C21B 5/00	(33) United States of America
(54) PROBE COMBINATION FOR DETECTION OF CANCER	C21B 7/00	(51) C21D 7/13
(73) TCM Biotech International Corp.	C21B 7/16	B21J 1/00
(72) LIN, You-Yu	F27D 3/16	C21D 9/08
WANG, Ya-Chun	(11) EP3421618	C21D 9/28
TZENG, Sheng-Tai	(21) EP18181898.0	(11) EP3670681
(31) 201762456087 P	(47) 13.09.2023	(21) EP19200602.1
(32) 07.02.2017	(22) 01.03.2012	(47) 13.09.2023
(33) United States of America	(54) DOUBLE WALL LANCE	(22) 30.09.2019
(51) C12Q 1/689	(73) JFE Steel Corporation	(54) HIGH-PRESSURE-TORSION APPARATUS AND METHOD OF MODIFYING MATERIAL PROPERTIES OF WORKPIECES USING SUCH APPARATUS
G16B 30/00	(72) Fujiwara, Daiki	(73) The Boeing Company
G16B 30/10	Murao, Akinori	(72) RAVI, Verma
G16B 30/20	Watakabe, Shiro	(31) 201816227543
(11) EP3097211	(31) 2011279954	(32) 20.12.2018
(21) EP15740133.2	(32) 21.12.2011	(33) United States of America
(47) 13.09.2023	(33) Japan	(51) C21D 8/02
(87) US2015010824	(51) C21D 6/00	C22C 38/02
30.07.2015	C21D 9/48	C22C 38/06
(22) 09.01.2015	C21D 8/04	C22C 38/22
(54) METHOD AND SYSTEM FOR MICROBIOME ANALYSIS	C21D 8/02	C22C 38/38
(73) Psomagen, Inc.	C22C 38/24	C21D 1/18
(72) APTE, Zachary	C21D 9/46	C21D 1/26
RICHMAN, Jessica	C21D 9/08	C21D 9/46
(31) 201462024947 P	C22C 38/06	(11) EP3899067
201461953683 P	C21D 1/02	(21) EP19835508.3
201461931612 P	B23K 11/00	
(32) 15.07.2014	C22C 38/26	
14.03.2014	C21D 1/19	
25.01.2014	B23K 31/02	
(33) United States of America	C21D 8/10	
	C22C 38/28	

(47) 13.09.2023	(54) TITANIUM ALLOY FASTENER AND	C22C 38/58
(87) IB2019060889	MANUFACTURING METHOD	C21D 9/60
25.06.2020	(73) Lisi Aerospace	C22C 38/22
(22) 17.12.2019	(72) LEGER, Guillaume	C22C 38/26
(54) COLD ROLLED AND HEAT-TREATED	(31) 1910205	C22C 38/28
STEEL SHEET AND METHOD OF	(32) 16.09.2019	C22C 38/32
MANUFACTURING THE SAME	(33) France	C23C 2/06
(73) ArcelorMittal	(51) C22C 19/03	C23C 2/40
(72) ALEXANDRE, Patrice	C22C 19/05	(11) EP3394307
BOUZAT, Magali	F01D 5/00	(21) EP16791614.7
CHAKRABORTY, Anirban	F01D 5/28	(47) 13.09.2023
GHASSEMI-ARMAKI, Hassan	B33Y 70/00	(87) EP2016076991
GIRINA, Olga	C22C 1/04	29.06.2017
JACOLOT, Ronan	F01D 9/02	(22) 08.11.2016
KOLTSOV, Alexey	F01D 9/04	(54) HIGH STRENGTH GALVANNEALED
NADLER, Aude	(11) EP3862447	STEEL SHEET AND METHOD OF
PANAHI, Damon	(21) EP21155623.8	PRODUCING SUCH STEEL SHEET
SOLER, Michel	(47) 13.09.2023	(73) voestalpine Stahl GmbH
(31) PCT/IB2018/060251	(22) 10.03.2017	Toyota Motor Europe NV/SA
(32) 18.12.2018	(54) HIGH OXIDATION-RESISTANT ALLOY	(72) HEBESBERGER, Thomas
(33) World Intellectual Property Office (WIPO)	AND GAS TURBINE APPLICATIONS	WINKELHOFER, Florian
(51) C22C 1/03	USING THE SAME	ANZENBERGER, Markus
C22C 24/00	(73) Nuovo Pignone Tecnologie S.r.l.	ARMAN, Edip Oze
(11) EP4004247	(72) DIMATTEO, Antonella	(31) 1551681
(21) EP20764810.6	GIOVANNETTI, Iacopo	(32) 21.12.2015
(47) 13.09.2023	(51) C22C 29/08	(33) Sweden
(87) US2020043019	B22F 5/00	(51) C22F 1/047
04.02.2021	(11) EP3808867	C22C 21/06
(22) 22.07.2020	(21) EP20206630.4	B22D 15/00
(54) PROCESS OF PREPARING A LITHIUM	(47) 13.09.2023	B22D 21/00
ALUMINUM ALLOY	(22) 25.09.2017	C22C 21/08
(73) Livent USA Corp.	(54) A ROCK DRILL INSERT	(11) EP3303649
(72) SINA, Younes	(73) Sandvik Intellectual Property AB	(21) EP16728572.5
GREETER, William, Arthur	(72) TURBA, Krystof	(47) 13.09.2023
MCGEORGE, Barry	ARVANITIDIS, Ioannis	(87) US2016035701
(31) 202016933312	MÄRTENSSON, Malin	08.12.2016
201962879308 P	(31) 16191046	(22) 03.06.2016
(32) 20.07.2020	(32) 28.09.2016	(54) AN AUTOMOTIVE BODY PART
26.07.2019	(33) European Patent Office (EPO)	COMPRISING AN ALUMINIUM ALLOY
(33) United States of America	(51) C22C 33/02	AND A METHOD FOR PRODUCING
United States of America	C22C 38/00	THE AUTOMOTIVE BODY PART
(51) C22C 9/00	H01F 1/057	(73) Novelis, Inc.
C22C 9/01	H01F 41/02	(72) KADALI, Jyothi
C22C 9/05	(11) EP3828905	GATENBY, Kevin Michael
C22F 1/08	(21) EP20207755.8	KANG, DaeHoon
(11) EP3910086	(47) 13.09.2023	DAS, Sazol Kumar
(21) EP21000110.3	(22) 16.11.2020	(31) 201562171344 P
(47) 13.09.2023	(54) A METHOD FOR INCREASING THE	(32) 05.06.2015
(22) 21.04.2021	COERCIVITY OF A SINTERED TYPE	(33) United States of America
(54) COPPER MANGANESE ALUMINIUM-	NDFEB PERMANENT MAGNET	(51) C23C 2/02
IRON WROUGHT ALLOY	(73) Yantai Dongxing Magnetic Materials Inc.	C23C 2/06
(73) Wieland-Werke AG	(72) Wang, Chuanshen	C23C 2/28
(72) Altenberger, Igor	Yang, Kunjun	C23C 2/40
Kuhn, Hans-Achim	Peng, Zhongjie	C22C 38/00
(31) 102020002885	Ding, Kaihong	C22C 38/02
(32) 14.05.2020	(31) 201911198033	C22C 38/04
(33) Germany	(32) 29.11.2019	C22C 38/06
(51) C22C 14/00	(33) China	C22C 38/08
C22F 1/18	(51) C22C 38/00	C22C 38/10
F16B 19/00	C21D 8/02	C22C 38/12
F16B 29/00	C23C 2/28	C22C 38/14
(11) EP4031689	C21D 9/46	C22C 38/16
(21) EP20768624.7	C22C 38/02	C22C 38/34
(47) 13.09.2023	C22C 38/04	C21D 1/19
(87) EP2020075702	C22C 38/06	C21D 1/25
25.03.2021	C22C 38/12	C21D 1/26
(22) 15.09.2020	C22C 38/14	C21D 8/04
	C22C 38/38	C21D 9/48



C23C 30/00	C23C 14/54	(87) JP2018010095
(11) EP3922740	(11) EP3196331	06.12.2018
(21) EP20752571.8	(21) EP14902110.7	(22) 15.03.2018
(47) 13.09.2023	(47) 13.09.2023	(54) MULTI-STAGE RESIN SURFACE
(87) JP2020004638	(87) JP2014074598	ETCHING METHOD, AND PLATING
13.08.2020	24.03.2016	METHOD ON RESIN USING SAME
(22) 06.02.2020	(22) 17.09.2014	(73) JCU Corporation
(54) HOT DIP GALVANIZED STEEL SHEET	(54) COATING FILM, MANUFACTURING	(72) KURAMOCHI, Yasuyuki
AND METHOD FOR PRODUCING	METHOD FOR SAME	ISHIZUKA, Hiroshi
SAME	(73) Nippon Piston Ring Co., Ltd.	IZUMITANI, Miyoko
(73) NIPPON STEEL CORPORATION	(72) MORIGUCHI, Hideki	(31) PCT/JP2017/020426
(72) YOKOYAMA, Takafumi	SAITO, Tadashi	(32) 01.06.2017
KAWATA, Hiroyuki	TANAKA, Yoshikazu	(33) World Intellectual Property Office (WIPO)
HAYASHI, Kunio	SHIBATA, Akinori	(51) C23C 26/00
YAMAGUCHI, Yuji	ARAH, Tetsumi	B23K 20/06
UCHIDA, Satoshi	OGAWA, Katsuaki	B23K 26/211
(31) 2019020090	OKAZAKI, Takahiro	B23K 20/16
(32) 06.02.2019	SUGIURA, Hiroyuki	(11) EP2758563
(33) Japan	ITO, Yoshihiro	(21) EP12831971.2
(51) C23C 8/10	(51) C23C 14/08	(47) 13.09.2023
C23C 8/02	C23C 14/24	(87) US2012048853
C23C 8/80	C23C 14/58	21.03.2013
A61L 27/04	G02B 1/113	(22) 30.07.2012
A61L 27/30	C01B 33/113	(54) METHODS AND SYSTEM FOR
C22C 16/00	C03C 17/245	CONTROLLED LASER-DRIVEN
C23C 8/12	C03C 17/34	EXPLOSIVE BONDING
(11) EP3936634	(11) EP3431627	(73) Lawrence Livermore National Security,
(21) EP19918349.2	(21) EP18184222.0	LLC
(47) 13.09.2023	(47) 13.09.2023	Metal Improvement Company, LLC.
(87) CN2019118460	(22) 18.07.2018	(72) RUBENCHIK, Alexander M.
10.09.2020	(54) METHOD FOR PRODUCING THIN FILM	FARMER, Joseph C.
(22) 14.11.2019	AND THIN FILM FORMING MATERIAL	RANKIN, Jon
(54) PREPARATION METHOD OF A	(73) NICHIA CORPORATION	HACKEL, Lloyd
MEDICAL IMPLANT BY APPLICATION	(72) Tanaka, Gentaro	(31) 201113229840
OF OXIDIZED CERAMIC LAYER ON	Tanaka, Hirofumi	(32) 12.09.2011
SURFACE OF ZIRCONIUM	(31) 2017140214	(33) United States of America
(73) Suzhou Microport Orthorecon Co., Ltd.	(32) 19.07.2017	(51) C23F 1/28
(72) SHEN, Yu	(33) Japan	B32B 15/08
YU, Tianbai	(51) C23C 16/455	C08L 101/00
WENG, Chih-Hsin	C23C 16/448	B29C 45/14
(31) 201910173412	C23C 16/18	B32B 38/10
(32) 07.03.2019	(11) EP3464676	C25D 5/48
(33) China	(21) EP17810821.3	C23C 18/16
(51) C23C 14/04	(47) 13.09.2023	C23C 18/38
C23C 14/24	(87) US2017036069	B29K 705/12
C23C 14/12	14.12.2017	B32B 38/00
H10K 71/00	(22) 06.06.2017	B29K 705/10
H10K 71/16	(54) REACTION OF DIAZADIENE	C25D 3/12
(11) EP3636797	COMPLEXES WITH AMINES	C25D 3/30
(21) EP18813393.8	(73) Wayne State University	C25D 3/34
(47) 13.09.2023	(72) WINTER, Charles, H.	C25D 3/46
(87) CN2018071549	KERRIGAN, Marissa Marie	C25D 3/54
13.12.2018	(31) 201662345937 P	(11) EP3287547
(22) 05.01.2018	(32) 06.06.2016	(21) EP16783149.4
(54) EVAPORATION MASK PLATE,	(33) United States of America	(47) 13.09.2023
EVAPORATION MASK PLATE SET, AND	(51) C23C 18/30	(87) JP2016062371
ALIGNMENT TESTING METHOD	C23C 18/16	27.10.2016
(73) BOE Technology Group Co., Ltd.	C23C 18/20	(22) 19.04.2016
Chengdu BOE Optoelectronics	C23C 18/24	(54) METHOD FOR PRODUCING METAL/
Technology Co., Ltd.	C25D 5/14	RESIN COMPOSITE STRUCTURE
(72) DING, Weiwei	C25D 5/56	AND METHOD FOR PRODUCING
WU, Jianpeng	C25D 3/38	SURFACE-ROUGHENED STEEL
(31) 201710414315	C25D 3/12	MEMBER
(32) 05.06.2017	C23C 18/32	(73) Mitsui Chemicals, Inc.
(33) China	C25D 3/08	(72) INOUE Goro
(51) C23C 14/06	(11) EP3633066	SUGITA Haruka
C23C 14/32	(21) EP18810479.8	OKUMURA Hiroshi
C23C 14/02	(47) 13.09.2023	(31) 2015087043

(32) 21.04.2015	(21) EP22161012.4	METHOD FOR MANUFACTURING
(33) Japan	(47) 13.09.2023	SAME, AND COIL
(51) C25B 1/02	(22) 09.03.2022	(73) Mitsubishi Materials Corporation
C25B 9/70	(54) PROCESS AND APPARATUS FOR	(72) SAKURAI, Hideaki
C25B 15/023	COMPRESSING HYDROGEN GAS IN A	HIRANO, Koji
H01M 16/00	CENTRIFUGAL COMPRESSOR	(31) 2017159701
C25B 9/19	(73) Air Products and Chemicals, Inc.	(32) 22.08.2017
C25B 1/04	(72) WEHRMAN, Joseph Gerard	(33) Japan
C25B 1/50	HIGGINBOTHAM, Paul	(51) C25D 17/00
(11) EP3710618	WHITE, Vincent	C25D 17/04
(21) EP18839889.5	(31) 202117201399	C25D 17/06
(47) 13.09.2023	(32) 15.03.2021	C25D 5/08
(87) NL2018050749	(33) United States of America	(11) EP3828316
23.05.2019	(51) C25D 1/10	(21) EP19211636.6
(22) 12.11.2018	B29C 33/38	(47) 13.09.2023
(54) MULTI-TRIGGERED ELECTRODES IN	B29C 45/26	(22) 26.11.2019
ELECTROCHEMICAL SYSTEMS	B29C 45/37	(54) DISTRIBUTION SYSTEM FOR A
(73) Battolyser Holding B.V.	(11) EP3517654	PROCESS FLUID FOR CHEMICAL
(72) WENINGER, Bernhard	(21) EP19153984.0	AND/OR ELECTROLYTIC SURFACE
(31) 2019908	(47) 13.09.2023	TREATMENT OF A SUBSTRATE
(32) 14.11.2017	(22) 28.01.2019	(73) Semsysco GmbH
(33) Netherlands	(54) METHOD OF MAKING A MOLD INSERT	(72) GLEISSNER, Andreas
(51) C25B 1/04	WITH (SUB)MICROSTRUCTURES	MODL, Harald
C25B 9/19	AND WORKPIECE COMPRISING	(51) C30B 33/00
C25B 13/02	(SUB)MICROSTRUCTURES	B28B 11/00
C25B 13/08	(73) Joanneum Research	C30B 29/20
(11) EP3652362	Forschungsgesellschaft mbH	C30B 29/26
(21) EP18748862.2	KDG Opticom GmbH	C30B 29/38
(47) 13.09.2023	(72) Kuna, Ladislav	(11) EP3362420
(87) EP2018068515	Wörle, Alexander	(21) EP16856336.9
17.01.2019	(31) 500812018	(47) 13.09.2023
(22) 09.07.2018	(32) 30.01.2018	(87) US2016057174
(54) A REINFORCED SEPARATOR FOR	(33) Austria	20.04.2017
ALKALINE HYDROLYSIS	(51) C25D 7/12	(22) 14.10.2016
(73) AGFA-GEVAERT NV	C25D 3/16	(54) A METHOD OF FORMING A CERAMIC
(72) MUES, Willem	C25D 5/18	PRODUCT
(31) 17180418	(11) EP3317437	(73) Luxium Solutions, LLC
(32) 10.07.2017	(21) EP16744598.0	(72) HAVEN, Drew T.
(33) European Patent Office (EPO)	(47) 13.09.2023	ZANELLA, Steven A.
(51) C25B 1/04	(87) US2016040501	DROUIN, William J.
C25B 9/23	05.01.2017	(31) 201562242800 P
C25B 9/73	(22) 30.06.2016	(32) 16.10.2015
C25B 9/77	(54) COBALT FILLING OF	(33) United States of America
C25B 15/08	INTERCONNECTS IN	(51) D01D 5/24
(11) EP4028355	MICROELECTRONICS	B01D 69/08
(21) EP20740357.7	(73) MacDermid Enthone Inc.	B01D 69/12
(47) 13.09.2023	(72) COMMANDER, John	B01D 71/60
(87) FI2020050446	PANECCASIO, JR., Vincent	(11) EP2542712
18.03.2021	ROUYA, Eric	(21) EP11708935.9
(22) 23.06.2020	WHITTEN, Kyle	(47) 13.09.2023
(54) A SYSTEM AND A METHOD FOR	SUN, Shaopeng	(87) NL2011050151
ALKALINE WATER ELECTROLYSIS	HAN, Jianwen	09.09.2011
(73) Lappeenranta-Lahden teknillinen	(31) 201562186978 P	(22) 04.03.2011
ylöpisto LUT	(32) 30.06.2015	(54) PROCESS FOR MANUFACTURING A
(72) KOPONEN, Joonas	(33) United States of America	HOLLOW FIBRE MEMBRANE
RUUSKANEN, Vesa	(51) C25D 13/06	(73) NX Filtration Holding B.V.
KOSONEN, Antti	H01B 13/06	(72) WESSLING, Matthias
POLUEKTOV, Anton	H01B 7/08	STAMATIALIS, Dimitrios
AHOLA, Jero	C09D 5/44	KOPEC, Karina Katarzyna
NIEMELÄ, Markku	H01B 3/30	DUTCZAK, Szymon Maria
LINDH, Tuomo	H01B 13/16	(31) 310879 P
(31) 20195758	(11) EP3447172	10155639
(32) 12.09.2019	(21) EP18164213.3	(32) 05.03.2010
(33) Finland	(47) 13.09.2023	05.03.2010
(51) C25B 1/04	(22) 27.03.2018	(33) United States of America
F04D 17/12	(54) INSULATED FLAT CONDUCTIVE	European Patent Office (EPO)
F04D 29/70	WIRE HAVING HIGH ASPECT RATIO,	(51) D01H 1/115
(11) EP4060089		D01H 13/22

(11) EP4015683	(22) 15.03.2019	RABINS, Andrew, W.
(21) EP20215384.7	(54) NOVEL FABRIC HAVING NETWORK	LUCAS, Jeffrey, A.
(47) 13.09.2023	STRUCTURE FORMED BY COLLAGEN	SESHADRI, Kannan
(22) 18.12.2020	FIBER BUNDLES, AND NOVEL	BOTHOF, Catherine, A.
(54) METHOD FOR MONITORING THE	LEATHER PRODUCT	(31) 140168 P
SPINNING PROCESS ON A SPINNING	(73) Guangdong Wuyuan New Material	(32) 23.12.2008
DEVICE, SPINNING STATION OF	Technology Group Co., Ltd.	(33) United States of America
AN AIR SPINNING MACHINE AND	(72) ZHANG, Liwen	(51) D04H 1/4334
SPINNING DEVICE	(31) 201811175017	B60R 13/08
(73) Saurer Intelligent Technology AG	(32) 09.10.2018	D04H 1/435
(72) Weide, Thomas	(33) China	E04B 1/62
Werner, Roland	(51) D04B 1/22	E04B 1/74
Kötzsch, Anja	D04B 1/10	E04B 1/88
(51) D01H 5/72	D04B 7/30	E04B 9/04
(11) EP3973094	(11) EP3564422	(11) EP3652372
(21) EP20731432.9	(21) EP19172255.2	(21) EP18746442.5
(47) 13.09.2023	(47) 13.09.2023	(47) 13.09.2023
(87) EP2020065482	(22) 02.05.2019	(87) US2018041221
10.12.2020	(54) FOOTWEAR AND METHOD FOR	17.01.2019
(22) 04.06.2020	KNITTING FOOTWEAR ARTICLES	(22) 09.07.2018
(54) CONDENSING UNIT FOR A DRAFTING	(73) Fabdesigns, Inc.	(54) POLYMERIC NONWOVEN
DEVICE AND SPINNING MACHINE	(72) Huffa, Bruce	STRUCTURE FOR IN HIGH
(73) Maschinenfabrik Rieter AG	Huffa, Concetta Maria	TEMPERATURE APPLICATIONS
(72) SCHAEFFLER, Gernot	(31) 201916400933	(73) Zephyros, Inc.
STOPP, Nora	201862665929 P	(72) BUSH, Kendall
(31) 102019115218	(32) 01.05.2019	(31) 201762530339 P
(32) 05.06.2019	02.05.2018	(32) 10.07.2017
(33) Germany	(33) United States of America	(33) United States of America
(51) D01H 9/18	United States of America	(51) D06F 17/02
B65H 67/06	(51) D04B 21/16	D06F 17/12
(11) EP3372713	C09J 7/21	D06F 39/08
(21) EP18160403.4	B32B 27/12	D06F 39/12
(47) 13.09.2023	B32B 5/02	(11) EP3612673
(22) 07.03.2018	B32B 5/06	(21) EP18809037.7
(54) SPINNING MACHINE	B32B 5/26	(47) 13.09.2023
(73) Maschinenfabrik Rieter AG	B32B 7/06	(87) SE2018050561
(72) Brandl, Sebastian	B32B 7/12	06.12.2018
Stephan, Adalbert	C09J 7/29	(22) 01.06.2018
Widner, Harald	B32B 5/12	(54) WASHING MACHINE WITH A FLEXIBLE
Zipperer, Martin	(11) EP4182497	WASHING COMPARTMENT HAVING
Haunschild, Helmut	(21) EP20746572.5	STAIN REMOVAL ZONES
Kettner, Christian	(47) 13.09.2023	(73) Roderinno AB
Holzheimer, Alexander	(87) EP2020070270	(72) MAGNUSSON, Fredrik
(31) 102017105034	20.01.2022	(31) 1750697
(32) 09.03.2017	(22) 17.07.2020	(32) 02.06.2017
(33) Germany	(54) TEXTILE CARRIER MATERIAL FOR	(33) Sweden
(51) D03C 13/00	ADHESIVE TAPES HAVING A FORMED	(51) D06F 17/12
(11) EP3831991	TEAR-OFF EDGE	D06F 35/00
(21) EP19213195.1	(73) Technitex Sachsen GmbH	(11) EP2809839
(47) 13.09.2023	(72) SCHMIEDL, Erik	(21) EP12866544.5
(22) 03.12.2019	(51) D04H 1/00	(47) 13.09.2023
(54) DRIVING DEVICE FOR A SHEDDING	D04H 1/64	(87) US2012049179
UNIT AND METHOD FOR ADJUSTING	C08F 289/00	01.08.2013
A SHED STROKE	C08F 291/00	(22) 01.08.2012
(73) Picanol	C08L 51/08	(54) SYSTEM FOR CONTROLLING SUPPLY
(72) Adriaen, Marc	C08F 8/00	OF OZONE TO WASHING MACHINE TO
Strubbe, Patrick	(11) EP2376689	MAXIMIZE CUMULATIVE CT VALUE
Sampers, Dirk	(21) EP09789652.6	(73) AWOIS LLC
Delboo, Emmanuel	(47) 13.09.2023	(72) DANIELS, Ralph G.
(51) D04B 1/14	(87) US2009043229	SPOFFORD, David A.
D03D 15/233	01.07.2010	(31) PCT/US2012/022212
D01C 3/00	(22) 08.05.2009	(32) 23.01.2012
D06N 3/00	(54) FUNCTIONALIZED NONWOVEN	(33) World Intellectual Property Office (WIPO)
(11) EP3865612	ARTICLE	(51) D06F 34/16
(21) EP19872104.5	(73) 3M Innovative Properties Co.	D06F 37/04
(47) 13.09.2023	(72) WEISS, Douglas, E.	D06F 103/26
(87) CN2019078252	WALLER, Clinton, P., Jr.	(11) EP4067551
16.04.2020	BERRIGAN, Michael, R.	(21) EP22162446.3

(47) 13.09.2023	(73) LG Electronics Inc.	(47) 13.09.2023
(22) 16.03.2022	(72) GWON, Hyeokjin	(22) 17.08.2017
(54) MOTION MONITORING DEVICE FOR MONITORING THE MOVEMENT OF A DRUM OF A WASHING MACHINE	RYU, Sungha	(54) TEXTILE PRINTING METHOD
(73) Diehl AKO Stiftung & Co. KG	(31) 20160012412	(73) Seiko Epson Corporation
(72) Pyszny, Filip	(32) 01.02.2016	(72) OHASHI, Masakazu
Lahus, Tomasz	(33) Korea (Republic)	SAITO, Toru
Wauer, Roman-Hartmut	(51) D06F 89/00	MURAI, Masayuki
Masina, Pawel	(11) EP3805447	MIYASA, Ryota
(31) 102021108006	(21) EP18920632.9	SUGIYAMA, Takako
(32) 30.03.2021	(47) 13.09.2023	(31) 2016162807
(33) Germany	(87) JP2018020366	(32) 23.08.2016
(51) D06F 37/22	05.12.2019	(33) Japan
D06F 39/12	(22) 28.05.2018	(51) D21F 9/00
D06F 58/20	(54) SLEEVE-FOLDING ASSISTANCE	B31F 1/12
D06F 29/00	DEVICE FOR ASSISTING BACK-REVEALING, SLEEVE-FOLDING DEVICE AND FOLDING DEVICE	D21H 27/02
(11) EP3760785	(73) Totofolder Manufacturing Co., Ltd.	D21F 11/00
(21) EP19760900.1	(72) MAESHIMA Yusuke	D21F 11/14
(47) 13.09.2023	(51) D06N 3/00	D21H 27/00
(87) CN2019076663	D06N 3/14	D21H 25/00
06.09.2019	(11) EP4061995	(11) EP3913138
(22) 01.03.2019	(21) EP20811584.0	(21) EP21184030.1
(54) SPRING BEARING BEAM AND FRAME OF CLOTHES HANDLING APPARATUS	(47) 13.09.2023	(47) 13.09.2023
(73) Qingdao Haier Drum Washing Machine Co., Ltd.	(87) EP2020082874	(22) 27.07.2018
Haier Smart Home Co., Ltd.	27.05.2021	(54) METHOD OF MAKING PAPER PRODUCTS USING A PATTERNED CYLINDER
(72) XING, Benfu	(22) 20.11.2020	(73) GPCP IP Holdings LLC
ZHAO, Zhiwei	(54) SYNTHETIC LEATHER OF VEGETABLE ORIGIN	(72) RUTHVEN, Paul J.
YI, Shaolei	(73) Ohoskin S.r.l.	HARPER, Frank D.
AI, Leilei	(72) SANTANOCITO, Adriana	ROBINSON, Mark L.
LI, Wenwei	MERIGHI, Roberto	(31) 201816023451
(31) 201810176062	(31) 201900021930	201762542378 P
(32) 02.03.2018	(32) 22.11.2019	(32) 29.06.2018
(33) China	(33) Italy	08.08.2017
(51) D06F 39/02	(51) D06P 5/30	(33) United States of America
D06F 35/00	B41J 2/01	United States of America
D06F 37/30	B41M 5/00	(51) D21F 11/00
(11) EP3536844	B41J 2/21	D21H 11/00
(21) EP19157629.7	B41M 7/00	B65H 20/00
(47) 13.09.2023	(11) EP3802945	D21F 11/14
(22) 18.02.2019	(21) EP19733255.4	(11) EP3414394
(54) METHOD FOR TREATING LAUNDRY IN A WASHING MACHINE AND WASHING MACHINE SUITABLE FOR THIS PURPOSE	(47) 13.09.2023	(21) EP17750573.2
(73) BSH Hausgeräte GmbH	(87) US2019035030	(47) 13.09.2023
(72) Czyzewski, Gundula	05.12.2019	(87) US2017015715
(31) 102018203577	(22) 31.05.2019	17.08.2017
(32) 09.03.2018	(54) METHODS AND SYSTEMS FOR A TEXTILE TREATMENT SYSTEM	(22) 31.01.2017
(33) Germany	(73) Nike Innovate C.V.	(54) MOLDING ROLL FOR MAKING PAPER PRODUCTS
(51) D06F 39/08	(72) ORIAKHI, Christopher	(73) GPCP IP Holdings LLC
D06F 39/00	REYNOLDS, Dave	(72) BECK, David A.
D06F 37/24	THIESSEN, Kurt	(31) 201662292379 P
G01F 23/18	(31) 201862678953 P	(32) 08.02.2016
D06F 33/34	201862678949 P	(33) United States of America
D06F 103/18	201862678945 P	(51) D21H 11/18
D06F 105/58	201862678941 P	D21H 17/21
(11) EP3412824	(32) 31.05.2018	D21H 17/33
(21) EP17747637.1	31.05.2018	D21H 17/44
(47) 13.09.2023	31.05.2018	D21H 21/20
(87) KR2017000479	31.05.2018	(11) EP3601669
10.08.2017	(33) United States of America	(21) EP18717969.2
(22) 13.01.2017	United States of America	(47) 13.09.2023
(54) WATER LEVEL SENSING METHOD FOR A CLOTHES TREATMENT APPARATUS	United States of America	(87) FI2018050234
	United States of America	04.10.2018
	United States of America	(22) 29.03.2018
	(51) D06P 5/30	(54) METHOD FOR PRODUCING PAPER, BOARD OR THE LIKE
	D06P 5/20	(73) Kemira Oyj
	(11) EP3287562	(72) LUNDIN, Tom
	(21) EP17186576.9	

KARISALMI, Kaisa SOJAKKA, Heikki	(33) Italy Italy	(21) EP17707053.9 (47) 13.09.2023
(31) 20175289	(51) E01B 7/24	(87) EP2017054601 08.09.2017
20175288	(11) EP3854940	(22) 28.02.2017
(32) 29.03.2017	(21) EP21152983.9	(54) BASE ELEMENT
29.03.2017	(47) 13.09.2023	(73) Permavoid Limited
(33) Finland	(22) 22.01.2021	(72) VAN RAAM, Carolus Hermanus
Finland	(54) SWITCH HEATING VALIDATION SYSTEM	SHUTTLEWORTH, Andrew Bryan CULLETON, Paul David
(51) D21H 17/34	(73) Dual Inventive Holding B.V.	(31) 2016344
D21H 17/44	(72) VAN DER POEL, Lex Josephus Maria	(32) 01.03.2016
D21H 17/45	(31) 2024757	(33) Netherlands
D21H 21/10	(32) 24.01.2020	
C08L 39/02	(33) Netherlands	(51) E01C 19/00
(11) EP3990700	(51) E01B 9/32	E01C 19/48
(21) EP20740683.6	E01B 9/66	E01C 23/01
(47) 13.09.2023	B66C 7/08	E01C 23/088
(87) FR2020050759	(11) EP4018039	G05D 1/02
30.12.2020	(21) EP20747083.2	G01B 21/00
(22) 07.05.2020	(47) 13.09.2023	G01S 19/00
(54) MANUFACTURING PROCESS OF PAPER OR PAPERBOARD	(87) GB2020051703 04.03.2021	H04W 4/46
(73) SNF Group	(22) 15.07.2020	G05D 1/00
(72) BARRIERE, Cyril	(54) RAIL FASTENING DEVICE	G01B 11/245
OLIVIER, Rémi	(73) Gantry Railing Ltd	(11) EP4056758
HUND, René	(72) BYGRAVE, Peter Nathan	(21) EP21161843.4
(31) 1907062	(31) 201912155	(47) 13.09.2023
(32) 27.06.2019	(32) 23.08.2019	(22) 10.03.2021
(33) France	(33) United Kingdom	(54) METHOD FOR MANUFACTURING A ROAD PAVING AND ASPHALTING SYSTEM
(51) D21H 27/10	(51) E01B 31/08	(73) Joseph Vögele AG
B65D 5/56	B21D 3/00	(72) BUSCHMANN, Martin
B65D 30/08	(11) EP3802957	WEISER, Ralf
B65D 65/38	(21) EP19791303.1	NOLL, Tobias
B65D 5/60	(47) 13.09.2023	
(11) EP3974342	(87) FR2019051385	(51) E01C 19/34
(21) EP20810426.5	12.12.2019	E01C 19/35
(47) 13.09.2023	(22) 07.06.2019	E02D 3/046
(87) JP2020020184	(54) ARRANGEMENT COMPRISING A RAIL AND A RAIL CLAMP	(11) EP3744897
26.11.2020	(73) Mornac, Jean-Pierre	(21) EP19726301.5
(22) 21.05.2020	(72) MORNAC, Jean-Pierre	(47) 13.09.2023
(54) PACKAGE COMPRISING A CONTAINER CONTAINING A CELLULOSE RESIN COMPOSITION	(72) RADFORD, Peter	(87) JP2019018906 08.10.2020
(73) Asahi Kasei Kabushiki Kaisha	(31) 1854982	(22) 13.05.2019
(72) UENO, Koichi	(32) 07.06.2018	(54) GROUND CONSOLIDATION DEVICE
(31) 2019095464	(33) France	(73) HONDA MOTOR CO., LTD.
(32) 21.05.2019	(51) E01B 31/24	(72) MIZUGUCHI, Hiroshi
(33) Japan	B23B 45/00	ISHIZUKA, Kunihiko
(51) D21H 27/10	(11) EP3784834	(31) PCT/JP2019/015211
B65D 27/04	(21) EP19721146.9	(32) 05.04.2019
B65D 30/28	(47) 13.09.2023	(33) World Intellectual Property Office (WIPO)
B65D 33/04	(87) IB2019053182	(51) E01C 23/088
D21H 27/06	31.10.2019	E01H 1/08
(11) EP3927887	(22) 17.04.2019	B24C 3/06
(21) EP20713957.7	(54) A DRILL FOR DRILLING RAILWAY SLEEPERS	(11) EP3631092
(47) 13.09.2023	(73) CEMBRE S.p.A.	(21) EP17807925.7
(87) IB2020051539	(72) BAREZZANI, Gualtiero	(47) 13.09.2023
27.08.2020	ORIZIO, Michele	(87) IB2017001199 06.12.2018
(22) 24.02.2020	(31) 201800004792	(22) 21.09.2017
(54) RECYCLABLE COMPOSITE MATERIAL, IN PARTICULAR FOR FOOD PACKAGING	(32) 23.04.2018	(54) COMBINED HIGH-PRODUCTIVITY SHOOT-PEENING MACHINE PROVIDED WITH SCARIFYING AND MAGNETIC GROUP ACCESSORY
(73) Gimsa S.r.l.	(33) Italy	(73) Trisha Anstalt, Vaduz, FL
(72) GIUSTI, Stefano	(51) E01C 3/00	(72) LO VAGLIO, Giuseppe
GIUSTI, Martina	E01C 13/02	(31) 7162017
(31) 201900004121	E03F 1/00	(32) 01.06.2017
201900002595	A01K 1/015	(33) Switzerland
(32) 21.03.2019	A01G 9/033	
22.02.2019	(11) EP3423634	

(51) E01D 19/04	(54) POWER TRANSMISSION MODULE	(33) Türkiye
(11) EP3929357	FOR WIND OFFSHORE STRUCTURES	(51) E02D 5/80
(21) EP20382566.6	AND FOUNDATION STRUCTURE	E02D 33/00
(47) 13.09.2023	(73) ThyssenKrupp Steel Europe AG	(11) EP3951066
(22) 26.06.2020	(72) Reales, Emilio	(21) EP21180615.3
(54) METHOD FOR MANUFACTURING	(51) E02D 3/054	(47) 13.09.2023
A SENSORIZED ELASTOMERIC	E02D 3/08	(22) 21.06.2021
SUPPORT AND SENSORIZED	E02D 5/66	(54) A METHOD OF TESTING A
ELASTOMERIC SUPPORT	E02D 7/18	STRUCTURE, AN ASSEMBLY FOR
(73) Fundación Tecnalia Research &	(11) EP3911801	TESTING A STRUCTURE, AND USE
Innovation	(21) EP19701600.9	OF AN ASSEMBLY FOR TESTING A
Tecaplas, S.L.	(47) 13.09.2023	STRUCTURE
(72) Ibeas Gonzalo, Jon Ander	(87) EP2019051295	(73) BBR VT International Ltd.
Jiménez Fernández, José Carlos	23.07.2020	(72) Wang, Xiaomeng
García Sánchez, David	(22) 18.01.2019	Manshadi, Behzad Dehghan
Ezquerro Andreu, Mikel	(54) VIBROFLOTATION FOR COMPACTING	Träger, Wolfgang
Chapartegui Elola, Maialen	SOIL	Pardatscher, Herbert
Gaztelumendi Lizarraga, Idoia	(73) Keller Holding GmbH	(31) 20189214
Seddon, Richard	(72) KLEIN, Kuno	(32) 03.08.2020
Florez Fernandez, Sonia	MAURIER, Victor	(33) European Patent Office (EPO)
(51) E01D 22/00	SCHMIDT, Uwe	(51) E02D 17/13
(11) EP4004289	(51) E02D 3/12	E02F 3/20
(21) EP20736566.9	C09K 17/12	E02F 3/47
(47) 13.09.2023	E02D 17/02	(11) EP4112816
(87) DE2020100498	(11) EP4060122	(21) EP21183267.0
04.02.2021	(21) EP21163394.6	(47) 13.09.2023
(22) 15.06.2020	(47) 13.09.2023	(22) 01.07.2021
(54) METHOD AND APPARATUS	(22) 18.03.2021	(54) UNDERGROUND DIAPHRAGM AND
FOR REPLACING BRIDGE	(54) INSTALLATION AND METHOD FOR	METHOD FOR CREATING A SLIT IN
CONSTRUCTIONS IN TRACK	PRODUCING AN INJECTION SILICATE	THE GROUND
SYSTEMS	GEL SOLUTION FOR INJECTING INTO	(73) BAUER Maschinen GmbH
(73) Riga Mainz GmbH & Co. KG	A BASE	(72) FLIERL, Daniel
(72) LANGER, Uwe	(73) BAUER Spezialtiefbau GmbH	WEIXLER, Leonhard
(31) 102019120231	(72) BEIER, Dirk	HUBER, Ludwig Andreas
(32) 26.07.2019	BECKHAUS, Karsten	(51) E02D 27/04
(33) Germany	LIERSCH, Lars	E02D 27/06
(51) E01F 15/04	WENZL, Patrik	E02D 27/42
(11) EP3908699	(51) E02D 5/66	E02D 27/52
(21) EP20703084.2	E02D 7/18	F03D 13/25
(47) 13.09.2023	E02D 3/08	B63B 21/48
(87) IB2020050140	(11) EP3926099	B63B 35/44
16.07.2020	(21) EP20209372.0	(11) EP3959381
(22) 09.01.2020	(47) 13.09.2023	(21) EP20711912.4
(54) MODULE FOR ROAD SAFETY	(22) 17.07.2017	(47) 13.09.2023
BARRIER AND SAFETY BARRIER	(54) VIBROFLOTATION DEVICE	(87) EP2020057089
MADE WITH SAID MODULE	(73) Degen, Alexander	29.10.2020
(73) LIBERTO, Giuseppe Giovanni	Degen, Wilhelm	(22) 16.03.2020
(72) LIBERTO, Giuseppe Giovanni	(72) Degen, Alexander	(54) FOUNDATION OF AN OFFSHORE
(31) 201900000409	Degen, Wilhelm	STRUCTURE HAVING A
(32) 10.01.2019	(31) 102016113140	TRANSMISSION CABLE AND A
(33) Italy	(32) 15.07.2016	PROTECTIVE ELEMENT
(51) E01H 4/02	(33) Germany	(73) RWE Offshore Wind GmbH
(11) EP3916158	(51) E02D 5/76	(72) JAHN, Christian
(21) EP21171791.3	E02D 5/80	OBERMEYER, Sebastian
(47) 13.09.2023	(11) EP3924554	(31) 102019110506
(22) 03.05.2021	(21) EP19850796.4	(32) 23.04.2019
(54) SNOW GROOMER	(47) 13.09.2023	(33) Germany
(73) Kässbohrer Geländefahrzeug AG	(87) TR2019050950	(51) E02F 9/20
(72) Behmüller, Andreas	20.08.2020	(11) EP3722515
Henger, Claudius	(22) 14.11.2019	(21) EP19207218.9
(31) 102020206710	(54) MULTI-PURPOSE ANCHOR	(47) 13.09.2023
(32) 28.05.2020	REINFORCEMENT APPARATUS	(22) 05.11.2019
(33) Germany	(73) ESKISEHIR TEKNİK UNIVERSITESI	(54) OPERATION CONTROL DEVICE FOR
(51) E02B 17/00	(72) EVIRGEN, Burak	WORKING VEHICLE
(11) EP3358084	TUNCAN, Mustafa	(73) Takeuchi Mfg. Co., Ltd.
(21) EP17154478.6	TUNCAN, Ahmet	(72) KUMEUCHI, Kengo
(47) 13.09.2023	(31) 201902017	SHIMIZU, Koichi
(22) 02.02.2017	(32) 11.02.2019	OKUTANI, Shumpei

KOBAYASHI, Yuta	(11) EP4074901	(32) 06.11.2018
(31) 2019072591	(21) EP22163933.9	(33) United States of America
(32) 05.04.2019	(47) 13.09.2023	(51) E04B 1/348
(33) Japan	(22) 23.03.2022	E04B 1/24
(51) E02F 9/20	(54) AN ARRANGEMENT OF DEVICES	E04B 1/343
G08C 17/02	FOR UNDERGROUND STORAGE OF	E04B 2/56
H04Q 9/00	WATER AND FOR ITS RECOVERY	E04B 2/58
(11) EP3851593	(73) Akademia Gorniczo-Hutnicza im.	E04B 2/60
(21) EP19888518.8	Stanislawa Staszica w Krakowie	E04B 2/62
(47) 13.09.2023	(72) Solecki, Marek	E04B 2/74
(87) JP2019043083	Solecki, Tadeusz	E04B 2/90
04.06.2020	Stopa, Jerzy	(11) EP3426853
(22) 01.11.2019	Wisniowski, Rafal	(21) EP17763913.5
(54) TELEOPERATION DEVICE FOR	Chruszcz-Lipska, Katarzyna	(47) 13.09.2023
CONSTRUCTION MACHINERY	(31) 43738721	(87) US2017021177
(73) KOBELCO CONSTRUCTION	(32) 24.03.2021	14.09.2017
MACHINERY CO., LTD.	(33) Poland	(22) 07.03.2017
(72) NODA, Daisuke	(51) E03B 7/08	(54) PREFABRICATED WALL PANELS
YAMASHITA, Koji	E04H 4/12	INCLUDING WATERPROOFING
YAMAZAKI, Yoichiro	F16L 27/107	ASSEMBLIES
(31) 2018224603	(11) EP4043648	(73) Innovative Building Technologies, LLC
(32) 30.11.2018	(21) EP22165077.3	(72) COLLINS, Arlan
(33) Japan	(47) 13.09.2023	WOERMAN, Mark
(51) E02F 9/22	(22) 14.02.2018	(31) 201662304858 P
E02F 9/20	(54) FLUID TRANSFER DEVICE FOR	(32) 07.03.2016
F15B 21/14	TRANSFERRING A FLUSHING	(33) United States of America
F15B 11/00	SOLUTION FROM A CONDUIT	(51) E04B 1/86
F15B 11/024	(73) A.P.F. Aqua System AG	B29C 43/18
(11) EP3517789	(72) UHLMANN, Dr. Helmut	B29C 43/40
(21) EP16913636.3	MATSCHULAT, Arndt	E04B 1/82
(47) 13.09.2023	(51) E03C 1/04	(11) EP3762558
(87) JP2016077961	E03C 1/048	(21) EP19723488.3
29.03.2018	E03C 1/14	(47) 13.09.2023
(22) 23.09.2016	E03C 1/16	(87) IB2019051835
(54) HYDRAULIC ENERGY RECOVERY	E03C 1/18	12.09.2019
DEVICE FOR WORK MACHINE	(11) EP3705639	(22) 07.03.2019
(73) Hitachi Construction Machinery Co., Ltd.	(21) EP20161212.4	(54) STIFFENED SOUND ABSORBING
(72) HIJIKATA, Seiji	(47) 13.09.2023	PANEL AND CORRESPONDING
ISHIKAWA, Kouji	(22) 05.03.2020	METHOD OF MANUFACTURE
IMURA, Shinya	(54) WASHING STATION DEVICE	(73) Eleda S.r.l.
(51) E02F 9/22	(73) Hansgrohe SE	(72) CAIMI, Renato
F15B 11/17	(72) Armbruster, Stefan	(31) 201800003410
(11) EP3683453	Flaig, Marco	(32) 09.03.2018
(21) EP18856734.1	Meißner, Axel	(33) Italy
(47) 13.09.2023	Oesterle, Matthias	(51) E04B 9/30
(87) JP2018014782	(31) 102019203168	E04F 13/00
21.03.2019	(32) 08.03.2019	E04B 9/04
(22) 06.04.2018	(33) Germany	(11) EP3724416
(54) DRIVING DEVICE OF CONSTRUCTION	(51) E04B 1/00	(21) EP18833457.7
EQUIPMENT	(11) EP4047147	(47) 13.09.2023
(73) Hitachi Construction Machinery Co., Ltd.	(21) EP21460015.7	(87) FR2018053151
(72) SHIMIZU, Juri	(47) 13.09.2023	20.06.2019
HIRAKU, Kenji	(22) 19.02.2021	(22) 07.12.2018
TAKAHASHI, Hiromasa	(54) CONSTRUCTION REINFORCEMENT	(54) BEAM WITH DETACHABLE PARTS
SUGIKI, Shohei	CONNECTOR	(73) Normalu
(31) 2017177202	(73) iBALKON Dariusz Glaza	(72) KOUJZER, Edwin
(32) 14.09.2017	(72) Glaza, Dariusz	SCHERRER, Jean-Marc
(33) Japan	(51) E04B 1/21	(31) 1761882
(51) E03B 3/40	E04B 1/41	(32) 11.12.2017
B65G 5/00	(11) EP3650607	(33) France
E02B 3/00	(21) EP19207395.5	(51) E04C 2/20
E03B 11/14	(47) 13.09.2023	E04C 2/288
E03F 5/10	(22) 06.11.2019	(11) EP4047152
A01G 25/00	(54) CONCRETE EMBEDDABLE CORBEL	(21) EP21158221.8
A62C 3/00	SYSTEM	(47) 13.09.2023
E03B 3/02	(73) ALP Supply, Inc.	(22) 19.02.2021
E03B 3/03	(72) Jablonsky, David S.	
E03B 3/30	(31) 201816181712	

(54) BUILDING PANEL AND CORRESPONDING METHOD FOR MANUFACTURING A BUILDING PANEL	(73) ARDEX Group GmbH (72) Johann, Ralf Brüll, Wolfgang	(11) EP4036350 (21) EP21382084.8 (47) 13.09.2023
(73) Mostafa, Kamal El-Shaer, Waleed Gaber	(31) 202019106094 U (32) 04.11.2019	(22) 01.02.2021 (54) ROLLER DEVICE FOR POOL COVERS
(72) Mostafa, Kamal El-Shaer, Waleed Gaber	(33) Germany	(73) Fluidra Industry France
(51) E04D 11/00 A01G 9/033 D03D 11/02	(51) E04F 15/02 E04F 15/08 E04F 15/18 E04F 15/20	(72) BOUCHAIN, Nicolas MOULET, Cédric EDMOND, Larry
(11) EP4063581 (21) EP21164102.2 (47) 13.09.2023 (22) 22.03.2021	(11) EP3559371 (21) EP17832283.0 (47) 13.09.2023	(51) E04H 4/14 E04H 4/12 (11) EP3835514 (21) EP20212439.2 (47) 13.09.2023 (22) 08.12.2020
(54) MODULAR UNIT FOR A GREEN ROOF (73) Sam Groofing Tech B.V. (72) Blaakman, Mark Leonard Wilhelmus Borra, Hans Antonius van der Hart, Bartholomeus Leonardus Maria Vermeer, Adrianus Maria Antonius	(87) FR2017053801 (22) 28.06.2018 (2) 21.12.2017 (54) METHOD FOR MAKING A TILED FLOOR (73) SAINT-GOBAIN WEBER (72) WIETZERBIN, Karine COMOY, Daniel	(54) POOL BODY WITH AN INTERNAL STAIRCASE (73) Maier, Karsten (72) Maier, Karsten (31) 102019008674 (32) 14.12.2019 (33) Germany
(51) E04F 11/18 (11) EP4008850 (21) EP20212186.9 (47) 13.09.2023 (22) 07.12.2020	(31) 1663188 (32) 22.12.2016 (33) France	(51) E04H 5/06 (11) EP4004309 (21) EP20742410.2 (47) 13.09.2023 (87) GB2020051682 04.02.2021 (22) 13.07.2020
(54) DEVICE, SYSTEM AND INSTALLATION METHOD FOR MOUNTING A PANEL (73) Railingcompany BV (72) Omer, Mertens	(51) E04F 15/02 E04F 15/10 B32B 21/02 B32B 27/30 (11) EP3870776 (21) EP19779011.6 (47) 13.09.2023 (87) EP2019076443 30.04.2020 (22) 30.09.2019 (54) MULTI-PURPOSE TILE SYSTEM (73) I4F LICENSING NV (72) BOUCKÉ, Eddy Alberic	(87) GB2020051682 04.02.2021 (22) 13.07.2020 (54) VEHICLE INSPECTION PIT COVER WITH ADJUSTABLE WIDTH (73) Oxford Safety Components Limited (72) BLACK, John Alexander BLACK, Robert David (31) 201910947 (32) 31.07.2019 (33) United Kingdom
(51) E04F 13/08 (11) EP3567182 (21) EP18763554.5 (47) 13.09.2023 (87) JP2018008767 13.09.2018 (22) 07.03.2018	(31) 2021887 (32) 26.10.2018 (33) Netherlands	(51) E04H 12/10 F03D 13/20 E04H 12/00 (11) EP4065798 (21) EP20810882.9 (47) 13.09.2023 (87) EP2020082345 03.06.2021 (22) 17.11.2020
(54) WALL MATERIAL FIXTURE AND WALL STRUCTURE (73) Nichiha Corporation (72) SAWADA, Youhei (31) 2017044666 (32) 09.03.2017 (33) Japan	(51) E04F 15/18 (11) EP3791032 (21) EP19725654.8 (47) 13.09.2023 (87) EP2019061798 14.11.2019 (22) 08.05.2019 (54) DRAINAGE MAT (73) ARDEX Group GmbH (72) GUTJAHR, Walter (31) 202018102584 U (32) 08.05.2018 (33) Germany	(54) LATTICE STRUCTURE FOR A TOWER OF A WIND TURBINE, AND TOWER OF A WIND TURBINE (73) ThyssenKrupp Steel Europe AG (72) KOTTKAMP, Klaus QAIMI, Sear GALAL, Galal (31) 102019218358 (32) 27.11.2019 (33) Germany
(51) E04F 13/08 (11) EP3578732 (21) EP18825060.9 (47) 13.09.2023 (87) JP2018024049 03.01.2019 (22) 25.06.2018	(51) E04H 1/12 (11) EP3724422 (21) EP18839932.3 (47) 13.09.2023 (87) NL2018050837 20.06.2019 (22) 13.12.2018 (54) TRANSPORTABLE SANITARY UNIT (73) MAD Investments B.V. (72) BIKKER, Marcel Adriaan Dirk (31) 2020090 (32) 14.12.2017 (33) Netherlands	(87) EP2020082345 03.06.2021 (22) 17.11.2020 (54) LATTICE STRUCTURE FOR A TOWER OF A WIND TURBINE, AND TOWER OF A WIND TURBINE (73) ThyssenKrupp Steel Europe AG (72) KOTTKAMP, Klaus QAIMI, Sear GALAL, Galal (31) 102019218358 (32) 27.11.2019 (33) Germany
(54) FIXTURE AND WALL STRUCTURE FOR BUILDINGS (73) Nichiha Corporation (72) SAWADA, Youhei (31) 2017128379 (32) 30.06.2017 (33) Japan	(51) E04F 15/02 E04F 15/024 (11) EP3816366 (21) EP20205281.7 (47) 13.09.2023 (22) 02.11.2020	(51) E04H 17/20 (11) EP3969694 (21) EP20735652.8 (47) 13.09.2023 (87) GB2020051337 10.12.2020 (22) 03.06.2020 (54) FENCE-POST SYSTEM AND METHOD RELATING THERETO (73) BJA Trading Ltd (72) NAYLOR, Mark Anthony (31) 201908039
(54) SUPPORTING STRUCTURE WITH MULTIPLE ELONGATE PROFILE ELEMENTS	(51) E04H 4/10	



(32) 05.06.2019	(22) 25.03.2020	(11) EP3556985
(33) United Kingdom	(54) HOUSING FOR A DRIVE AND DRIVE	(21) EP18168562.9
(51) E05B 9/08	(73) GEZE GmbH	(47) 13.09.2023
(11) EP3812537	(72) Budarick, Marko	(22) 20.04.2018
(21) EP20200696.1	(31) 102019209384	(54) PARTITION CURTAIN THAT CAN BE
(47) 13.09.2023	(32) 27.06.2019	DRAWN UP
(22) 08.10.2020	(33) Germany	(73) Trenomat GmbH & Co. KG
(54) LOCKING CYLINDER	(51) E05F 15/63	(72) Knittel, Klaus Walter
(73) ABUS August Bremicker Söhne KG	(11) EP3361033	(51) E06B 9/74
(31) 102019128884	(21) EP17207500.4	E06B 9/76
(32) 25.10.2019	(47) 13.09.2023	(11) EP3916192
(33) Germany	(22) 14.12.2017	(21) EP21176256.2
(51) E05B 81/20	(54) METHOD FOR STARTING UP A DOOR	(47) 13.09.2023
E05B 83/40	OR WINDOW CLOSER	(22) 27.05.2021
E05B 83/18	(73) GEZE GmbH	(54) CRANK MECHANISM FOR
(11) EP2952659	(72) Hucker, Dr., Matthias	ELECTRICALLY DRIVEN CURTAINS
(21) EP15001553.5	(31) 102017201951	(73) Breuer, Dieter
(47) 13.09.2023	(32) 08.02.2017	(72) SCHMITT, Michael
(22) 01.06.2015	(33) Germany	(31) 102020114154
(54) LOCKING MECHANISM	(51) E05F 15/643	(32) 27.05.2020
(73) Wietmarscher Ambulanz- und	E05F 15/657	(33) Germany
Sonderfahrzeug GmbH	(11) EP3868993	(51) E06B 11/02
(72) Gotthardt, Daniel	(21) EP20158489.3	E05F 15/614
Hoffschroer, Michael	(47) 13.09.2023	E05D 7/00
Schnieders, Thomas	(22) 20.02.2020	E05D 3/02
(31) 102014107771	(54) SLIDING DOOR, ESPECIALLY A	(11) EP4092242
(32) 03.06.2014	COOLING ROOM SLIDING DOOR	(21) EP22173238.1
(33) Germany	(73) Frinova GmbH	(47) 13.09.2023
(51) E05D 3/12	(72) Dück, Wilhelm	(22) 13.05.2022
E05D 11/10	(51) E05F 15/668	(54) A MOTION TRANSMISSION DEVICE
E05F 1/06	E05F 15/684	FOR MOTOR-DRIVEN GATES
(11) EP3428374	(11) EP3601709	(73) F.LLI Mannori S.N.C. Di Mannori Simone
(21) EP18182569.6	(21) EP18712818.6	e Marco
(47) 13.09.2023	(47) 13.09.2023	(72) MANNORI, Marco
(22) 10.07.2018	(87) EP2018056123	MANNORI, Simone
(54) JOINT STRUCTURE WITH DIRECTION-	27.09.2018	(31) 202100012833
DEPENDENT PIVOT RESISTANCE	(22) 12.03.2018	(32) 18.05.2021
(73) Jungheinrich Aktiengesellschaft	(54) TORQUE TRANSMISSION DEVICE,	(33) Italy
(72) REICHENBACH, Falk	DOOR DRIVE AND DOOR FITTED	(51) E06B 11/08
(31) 102017211924	WITH SAID DEVICE	E05F 15/614
(32) 12.07.2017	(73) Hörmann KG Antriebstechnik	(11) EP3867480
(33) Germany	(72) SCHÜTZ, Viktor	(21) EP19786965.4
(51) E05D 15/06	(31) 102017106444	(47) 13.09.2023
E06B 3/50	(32) 24.03.2017	(87) EP2019077640
E05D 15/14	(33) Germany	23.04.2020
E05D 15/58	(51) E06B 3/46	(22) 11.10.2019
(11) EP3980619	E06B 3/28	(54) PASSAGE BARRIER AND METHOD
(21) EP20730024.5	E06B 3/54	FOR PRODUCING A PASSAGE
(47) 13.09.2023	E05D 15/06	BARRIER
(87) EP2020065305	(11) EP3660253	(73) dormakaba Deutschland GmbH
10.12.2020	(21) EP19212467.5	(72) GENDIG, Oliver
(22) 03.06.2020	(47) 13.09.2023	KUTTRUFF, Martin
(54) PIECE OF FURNITURE HAVING A	(22) 29.11.2019	MEULENBELD, Jan
DOOR HELD BY A TRANSLATION	(54) AUTOMATIC DOOR SYSTEM,	EICHNER, Harald
DEVICE	ESPECIALLY IN THE FORM OF A	(31) 102018125462
(73) Hawa Sliding Solutions AG	SLIDING DOOR OR A TELESCOPIC	(32) 15.10.2018
(72) HAAB, Gregor	SLIDING DOOR OR A FOLDING DOOR,	(33) Germany
PREHM, Pascal	AND A BUILDING COMPRISING SUCH	(51) E06C 1/393
(31) 19179204	AN AUTOMATIC DOOR SYSTEM	E06C 1/397
(32) 07.06.2019	(73) Agtatec AG	E06C 7/18
(33) European Patent Office (EPO)	(72) TSCHANZ, Peter	E06C 7/46
(51) E05F 3/22	(31) 202018106790 U	E06C 7/14
E05F 15/603	(32) 29.11.2018	E05D 11/10
H05K 5/00	(33) Germany	E05D 15/54
(11) EP3757329	(51) E06B 9/06	(11) EP3940189
(21) EP20165497.7	E04B 2/74	(21) EP21180848.0
(47) 13.09.2023	E06B 9/24	(47) 13.09.2023
		(22) 22.06.2021

(54) DEVICE FOR WORKING AT HEIGHT WITH ARTICULATED RAILING AND AUTOMATIC GATE	AND DIRECTIONAL SENSORS FOR DRILLING DIRECTIONAL WELLS	E21B 17/04 E21B 17/042
(73) CDH Group	(73) Baker Hughes Holdings LLC	(11) EP4047178
(72) GONTIER, Gildas	(72) PETERS, Volker	(21) EP21157645.9
(31) 2007388	PETER, Andreas	(47) 13.09.2023
(32) 15.07.2020	FULDA, Christian	(22) 17.02.2021
(33) France	EGGERS, Heiko	(54) ELLIPTICAL DESIGN FOR HEXAGONAL SHANKS
(51) E21B 4/14	GRIMMER, Harald	(73) Sandvik Mining and Construction Tools AB
E21B 4/16	(31) 201615274892	(72) JANSSON, Tomas
E21B 6/00	(32) 23.09.2016	KRAFT, Conny
E21B 10/60	(33) United States of America	(51) E21B 17/03
(11) EP3336301	(51) E21B 7/26	E21B 17/042
(21) EP16205044.7	E21B 7/02	(11) EP4047179
(47) 13.09.2023	E21B 47/024	(21) EP21157658.2
(22) 19.12.2016	E21D 9/10	(47) 13.09.2023
(54) DRILLING APPARATUS AND METHOD FOR PRODUCING A BOREHOLE	(11) EP3775464	(22) 17.02.2021
(73) BAUER Maschinen GmbH	(21) EP19722668.1	(54) ELLIPTICAL DESIGN FOR SHANK ADAPTERS
(72) BAUER, Sebastian	(47) 13.09.2023	(73) Sandvik Mining and Construction Tools AB
(51) E21B 4/14	(87) FR2019050860	(72) JANSSON, Tomas
E21B 10/36	17.10.2019	NORDBERG, Anders
E21B 10/38	(22) 11.04.2019	(51) E21B 19/16
(11) EP3899188	(54) DEVICE FOR CONTROLLING A BORING ACCESSORY, EQUIPPED WITH AN ANGLE MEASUREMENT DEVICE	E21B 44/00
(21) EP19808818.9	(73) Montabert	E21B 19/00
(47) 13.09.2023	(72) DROUAUD, Charlotte	(11) EP3480420
(87) EP2019082648	(31) 1853143	(21) EP18202911.6
25.06.2020	(32) 11.04.2018	(47) 13.09.2023
(22) 27.11.2019	(33) France	(22) 26.10.2018
(54) ROCK DRILL BIT FOR PERCUSSIVE DRILLING	(51) E21B 10/42	(54) CONTROL SYSTEM FOR HYDROCARBON RECOVERY TOOLS
(73) Sandvik Mining and Construction Oy	E21B 10/43	(73) Weatherford Technology Holdings, LLC
Sandvik Mining and Construction Tools AB	E21B 10/60	(72) WIEDECKE, Michael
(72) BRUANDET, Olivier	(11) EP3833844	THIEMANN, Bjoern
HARELAND, Mathias	(21) EP19753599.0	HOELTERLING, Carlo
GEWERS, Gustav	(47) 13.09.2023	WERN, Frank
(31) 18212828	(87) US2019045525	(31) 201715804690
(32) 17.12.2018	13.02.2020	(32) 06.11.2017
(33) European Patent Office (EPO)	(22) 07.08.2019	(33) United States of America
(51) E21B 4/14	(54) DOWNHOLE TOOL WITH FIXED CUTTERS FOR REMOVING ROCK	(51) E21B 25/16
E21B 10/38	(73) Ulterra Drilling Technologies, L.P.	E21B 47/024
(11) EP3899189	(72) CASAD, Christopher M.	E21B 44/00
(21) EP19808819.7	(31) 201815999039	G01V 1/50
(47) 13.09.2023	201862719097 P	G05B 13/04
(87) EP2019082653	201862715771 P	(11) EP3869000
25.06.2020	(32) 17.08.2018	(21) EP21168345.3
(22) 27.11.2019	16.08.2018	(47) 13.09.2023
(54) DOWN-THE-HOLE HAMMER DRILL BIT ASSEMBLY	07.08.2018	(22) 22.12.2017
(73) Sandvik Mining and Construction Oy	(33) United States of America	(54) METHOD AND SYSTEM FOR DETERMINING CORE ORIENTATION
Sandvik Mining and Construction Tools AB	United States of America	(73) Reflex Instruments Asia Pacific Pty Ltd
(72) BRUANDET, Olivier	United States of America	(72) Tapson, Jonathan Craig
(31) 18212827	(51) E21B 17/02	Brown, Kelvin
(32) 17.12.2018	(11) EP4007838	Jabbal, Gurtej Aingh
(33) European Patent Office (EPO)	(21) EP20746828.1	Mcleod, Gavin Thomas
(51) E21B 7/06	(47) 13.09.2023	(31) 2016905363
E21B 47/024	(87) US2020041630	(32) 23.12.2016
(11) EP3519663	04.02.2021	(33) Australia
(21) EP17853862.5	(22) 10.07.2020	(51) E21B 33/02
(47) 13.09.2023	(54) DOWNHOLE FIBER OPTIC WET MATE CONNECTIONS	(11) EP3760830
(87) US2017052655	(73) Weatherford Technology Holdings, LLC	(21) EP20172065.3
29.03.2018	(72) SIMONSEN, Tore	(47) 13.09.2023
(22) 21.09.2017	GRØDEM, Tore	(22) 29.04.2020
(54) DRILLING APPARATUS USING A SELF-ADJUSTING DEFLECTION DEVICE	(31) 201916529624	(54) DEVICE FOR CLOSING A CAVITY FORMED IN THE GROUND
	(32) 01.08.2019	(73) GMB GmbH
	(33) United States of America	
	(51) E21B 17/03	

(72) STRZODKA, Michael MAGISTER, Jan BÜRGER, Andreas BIEGEL, Peter GIAPAPAS, Sokrates	(73) ARDYNE HOLDINGS LIMITED (72) EVERTSEN, Steffen (31) 20131434 (32) 30.10.2013 (33) Norway	(31) 2019054009 2019054008 (32) 22.03.2019 22.03.2019 (33) Japan
(31) 202019103633 U (32) 02.07.2019 (33) Germany	(51) E21B 43/12 E21B 43/14 E21B 43/26	(51) F01C 1/077
(51) E21B 33/035 (11) EP4031746 (21) EP20793567.7 (47) 13.09.2023 (87) EP2020075885 25.03.2021 (22) 16.09.2020 (54) A CONFIGURABLE WORKOVER SYSTEM AND METHOD FOR ADAPTING THE SYSTEM	(11) EP3380701 (21) EP16808741.9 (47) 13.09.2023 (87) GB2016053730 01.06.2017 (22) 28.11.2016 (54) AUTONOMOUS DOWNHOLE FLOW CONTROL VALVE FOR WELL PRESSURE CONTROL	(11) EP3755882 (21) EP19715361.2 (47) 13.09.2023 (87) DE2019000002 29.08.2019 (22) 08.01.2019 (54) SPHERICAL ENERGY CONVERTER
(73) Aker Solutions AS (72) BJØRNSTAD, Petter EGBEJULE, Omagbe	(73) Swellfix UK Limited (72) GREEN, Annabel HUNTER, John FROST, Clint	(73) Kröll, André (72) Kröll, André (31) 202018000899 U (32) 21.02.2018 (33) Germany
(31) 20191115 (32) 16.09.2019 (33) Norway	(31) 201609093 201521012 (32) 24.05.2016 27.11.2015	(51) F01C 1/344 F01C 21/08 F04C 2/344 F04C 18/344 F04C 14/06 F04C 15/00 F04C 15/06
(51) E21B 33/035 E21B 33/038 E21B 43/013 F16L 1/26	(33) United Kingdom United Kingdom	(11) EP3957821
(11) EP3755870 (21) EP19757200.1 (47) 13.09.2023 (87) US2019018769 29.08.2019 (22) 20.02.2019 (54) VERSATILE FLYING LEAD (VFL) TERMINATION HEAD SYSTEM	(51) E21B 47/12 E21B 47/135 E21B 17/20 E21B 19/22 G02B 6/36 G02B 6/44 G02B 6/50	(21) EP21201660.4 (47) 13.09.2023 (22) 28.02.2018 (54) HYDRAULIC MACHINE WITH STEPPED ROLLER VANE AND FLUID POWER SYSTEM INCLUDING HYDRAULIC MACHINE WITH STARTER MOTOR CAPABILITY
(73) Oceaneering International, Inc. (72) LU, Ronald DUNCAN, Jason PRAKASH, Sunil WILLIAMS, Christopher	(11) EP3356638 (21) EP16852323.1 (47) 13.09.2023 (87) US2016052731 06.04.2017 (22) 21.09.2016 (54) OPTICAL ROTARY JOINT IN COILED TUBING APPLICATIONS	(73) Mathers Hydraulics Technologies Pty Ltd (72) MATHERS, Norman, Ian (31) 201762504283 P 201762467658 P (32) 10.05.2017 06.03.2017 (33) United States of America United States of America
(31) 201862632714 P (32) 20.02.2018 (33) United States of America	(73) Schlumberger Technology B.V. (72) SEGURA DOMINGUEZ, Jordi Juan KENISON, Michael Hayes	(51) F01C 21/08 F01C 21/10 F01C 1/344
(51) E21B 34/06 F16K 31/04	(31) 201514873083 (32) 01.10.2015 (33) United States of America	(11) EP3885529 (21) EP21156570.0 (47) 13.09.2023 (22) 11.02.2021
(11) EP4028635 (21) EP20771806.5 (47) 13.09.2023 (87) EP2020075228 18.03.2021 (22) 09.09.2020 (54) SUBSURFACE SAFETY VALVE AND METHOD OF OPERATING A SUBSURFACE SAFETY VALVE	(11) EP3943709 (21) EP20777495.1 (47) 13.09.2023 (87) JP2020012350 01.10.2020 (22) 19.03.2020 (54) PIPE JOINING METHOD INSIDE PIPELINE CONSTRUCTION SHAFT	(54) ROTARY COMPRESSOR (73) LG Electronics Inc. (72) MOON, Seokhwan NOH, Kiyoul SA, Bumdong (31) 20200036505 (32) 25.03.2020 (33) Korea (Republic)
(73) Expro North Sea Limited (72) ACKROYD, Warren	(22) 19.03.2020 (54) PIPE JOINING METHOD INSIDE PIPELINE CONSTRUCTION SHAFT	(51) F01D 5/02 F01D 5/30
(31) 201912947 (32) 09.09.2019 (33) United Kingdom	(73) Kubota Corporation (72) KISHI, Shozo ITO, Kazuya KOMARU, Yuito ISHIMURA, Ko SHIMOMURA, Masataka FUJIMOTO, Yutaka HIGASHI, Kento	(51) F01D 5/02 F01D 5/30 (11) EP3611338 (21) EP19180400.4 (47) 13.09.2023 (22) 14.06.2019 (54) DOVETAIL WEIGHT SYSTEM FOR ROTOR BALANCE (73) Raytheon Technologies Corporation (72) OREN, Nicholas Waters

WILSON, Ross	(33) United States of America	(22) 29.09.2017
(31) 201816103138	(51) F01D 11/02	(54) SYSTEM, METHOD, AND COMPUTER-READABLE MEDIUM FOR CONTROLLING FLOW VALVES IN A TURBINE
(32) 14.08.2018	F01D 25/18	
(33) United States of America	F02C 3/067	
(51) F01D 5/14	F02C 7/06	
(11) EP3108109	F02C 7/28	(73) General Electric Technology GmbH
(21) EP15751738.4	F02C 7/36	(72) SALTSMAN, Joseph, Clay
(47) 13.09.2023	F02K 3/06	(31) 201615280551
(87) US2015016378	(11) EP4073354	(32) 29.09.2016
27.08.2015	(21) EP20828663.3	(33) United States of America
(22) 18.02.2015	(47) 13.09.2023	(51) F01D 17/16
(54) GAS TURBINE ENGINE FAN BLADE	(87) FR2020052230	F02C 6/12
(73) Raytheon Technologies Corporation	17.06.2021	(11) EP3417154
(72) GALLAGHER, Edward J.	(22) 01.12.2020	(21) EP17708356.5
MONZON, Byron R.	(54) PRESSURISING OF LUBRICATION CHAMBERS IN A TURBOMACHINE WITH COUNTER-ROTATING TURBINE	(47) 13.09.2023
LIU, Ling	(73) SAFRAN AIRCRAFT ENGINES	(87) US2017017135
LI, Linda S.	(72) LEVISSE, Paul Ghislain Albert	24.08.2017
WHITLOW, Darryl	BELMONTE, Olivier	(22) 09.02.2017
FORD, Barry M.	CATY, Fabien Roger Gaston	(54) GUIDE APPARATUS FOR A TURBOCHARGER INCLUDING A VANE LEVER INTEGRATED ADJUSTMENT RING AXIAL TRAVEL STOP
(31) 201461941781 P	CHASSAGNE, Amélie Argie Antoinette	(73) BorgWarner Inc.
(32) 19.02.2014	(31) 1914017	(72) WILLIAMS, Greg
(33) United States of America	(32) 10.12.2019	MORGAN, Elias
(51) F01D 5/14	(33) France	KENNEDY, Donald
F01D 11/00	(51) F01D 11/22	(31) 201615046079
(11) EP3781791	F01D 17/02	(32) 17.02.2016
(21) EP19745681.7	F01D 25/24	(33) United States of America
(47) 13.09.2023	F01D 17/12	(51) F01D 25/12
(87) FR2019051416	F01D 17/24	(11) EP3543477
19.12.2019	F01D 11/20	(21) EP19163888.1
(22) 12.06.2019	(11) EP3904639	(47) 13.09.2023
(54) GAS TURBINE VANE HAVING A PASSIVE SYSTEM FOR REINJECTING LEAKAGE GAS INTO THE GAS PATH	(21) EP21171652.7	(22) 19.03.2019
(73) SAFRAN AIRCRAFT ENGINES	(47) 13.09.2023	(54) HOODED ENTRANCE TO EFFUSION HOLES
(72) PINTAT, Ludovic	(22) 30.04.2021	(73) Raytheon Technologies Corporation
(31) 1855264	(54) SEMI-AUTONOMOUS RAPID RESPONSE ACTIVE CLEARANCE CONTROL SYSTEM	(72) LAMSON, Scott H.
(32) 15.06.2018	(73) Raytheon Technologies Corporation	(31) 201815925223
(33) France	(72) FARRIS, John R.	(32) 19.03.2018
(51) F01D 11/00	McCAFFREY, Michael G.	(33) United States of America
C04B 35/80	(31) 202016864765	(51) F01D 25/16
F01D 11/08	(32) 01.05.2020	F01D 25/28
F01D 25/24	(33) United States of America	F16C 35/063
(11) EP3767077	(51) F01D 15/10	(11) EP3431721
(21) EP20183256.5	F01D 9/06	(21) EP18184235.2
(47) 13.09.2023	(11) EP4069948	(47) 13.09.2023
(22) 30.06.2020	(21) EP20820507.0	(22) 18.07.2018
(54) CMC BOAS ARRANGEMENT	(47) 13.09.2023	(54) GAS TURBINE ENGINE COMPONENTS AND ASSEMBLY THEREOF
(73) Raytheon Technologies Corporation	(87) FR2020052158	(73) Raytheon Technologies Corporation
(72) BLANEY, Ken F.	10.06.2021	(72) MULDOON, Marc J.
CLARK, Thomas E.	(22) 24.11.2020	(31) 201715652712
(31) 201916516977	(54) ELECTRIC MODULE FOR AN AIRCRAFT TURBOMACHINE	(32) 18.07.2017
(32) 19.07.2019	(73) SAFRAN AIRCRAFT ENGINES	(33) United States of America
(33) United States of America	(72) MILLIER, Vincent François Georges	(51) F01D 25/18
(51) F01D 11/00	GUILLOTTEL, Loïc Paul Yves	F02C 7/06
F01D 21/08	(31) 1913668	F02C 7/36
F01D 25/24	(32) 03.12.2019	F02K 3/06
F01D 11/12	(33) France	F02C 3/067
(11) EP3828391	(51) F01D 17/14	(11) EP4073355
(21) EP20208790.4	F01D 17/20	(21) EP20828533.8
(47) 13.09.2023	F01K 13/02	(47) 13.09.2023
(22) 20.11.2020	(11) EP3519680	(87) FR2020052231
(54) SEAL ASSEMBLY FOR A GAS TURBINE ENGINE	(21) EP17788349.3	17.06.2021
(73) Raytheon Technologies Corporation	(47) 13.09.2023	(22) 01.12.2020
(72) LUTJEN, Paul M.	(87) US2017054222	
THILL, Carson A. Roy	05.04.2018	
(31) 201916695616		
(32) 26.11.2019		

- (54) RECOVERY OF LUBRICATING OIL FROM A REDUCTION GEAR OF AN AIRCRAFT TURBINE ENGINE  
(73) SAFRAN AIRCRAFT ENGINES  
(72) LEVISSE, Paul Ghislain Albert  
BELMONTE, Olivier  
CHASSAGNE, Amélie Argie Antoinette  
(31) 1914016  
(32) 10.12.2019  
(33) France
- 
- (51) F01D 25/26  
F01K 7/22  
F01K 7/02  
F01D 25/14  
(11) EP3850194  
(21) EP19795107.2  
(47) 13.09.2023  
(87) EP2019077895  
22.05.2020  
(22) 15.10.2019  
(54) STEAM TURBINE AND METHOD FOR OPERATING SAME  
(73) Siemens Energy Global GmbH & Co. KG  
(72) PREIBISCH, Stefan  
(31) 102018219374  
(32) 13.11.2018  
(33) Germany
- 
- (51) F01K 23/10  
(11) EP3797217  
(21) EP19731129.3  
(47) 13.09.2023  
(87) DE2019000142  
28.11.2019  
(22) 21.05.2019  
(54) AIRCRAFT PROPULSION SYSTEM WITH EXHAUST-GAS TREATMENT DEVICE AND METHOD FOR TREATING AN EXHAUST-GAS STREAM  
(73) MTU Aero Engines AG  
(72) KLINGELS, Hermann  
SCHMITZ, Oliver  
(31) 102018208026  
(32) 22.05.2018  
(33) Germany
- 
- (51) F01L 1/06  
F01L 13/06  
F02D 13/04  
F02D 13/02  
(11) EP3601750  
(21) EP18778035.8  
(47) 13.09.2023  
(87) SE2018050327  
04.10.2018  
(22) 27.03.2018  
(54) FOUR-STROKE INTERNAL COMBUSTION ENGINE THERE TO RELATED VEHICLE AND METHOD  
(73) Scania CV AB  
(72) DAHL, Andreas  
OLOFSSON, Eric  
(31) 1750392  
(32) 31.03.2017  
(33) Sweden
- 
- (51) F01L 13/00  
F01L 1/352  
(11) EP3721062  
(21) EP18811782.4  
(47) 13.09.2023
- (87) EP2018082846  
13.06.2019  
(22) 28.11.2018  
(54) DRIVING ARRANGEMENT FOR AN ACTUATION SHAFT IN A CONTINUOUSLY VARIABLE VALVE TIMING SYSTEM IN AN INTERNAL COMBUSTION ENGINE  
(73) Pierburg GmbH  
(72) BREUER, Michael  
MOORMANN, Stefan  
SADOWSKI, Christoph  
(31) 102017129025  
(32) 06.12.2017  
(33) Germany
- 
- (51) F01N 1/08  
F01N 13/18  
(11) EP4098851  
(21) EP22169873.1  
(47) 13.09.2023  
(22) 26.04.2022  
(54) SILENCER  
(73) Purem GmbH  
(72) Beck, Thomas  
Häberle, Jürgen  
(31) 102021114254  
(32) 02.06.2021  
(33) Germany
- 
- (51) F01N 3/027  
F01N 3/20  
F01N 9/00  
(11) EP4098852  
(21) EP22169872.3  
(47) 13.09.2023  
(22) 26.04.2022  
(54) EXHAUST HEATER  
(73) Purem GmbH  
(72) Brenner, Holger  
(31) 102021113989  
(32) 31.05.2021  
(33) Germany
- 
- (51) F01N 3/20  
F01N 3/28  
F01N 9/00  
(11) EP3775513  
(21) EP19776571.2  
(47) 13.09.2023  
(87) US2019024732  
03.10.2019  
(22) 29.03.2019  
(54) METHOD FOR CONTROLLING UREA MIXERS TO REDUCE NOX EMISSION FROM COMBUSTION ENGINES  
(73) Emissol LLC  
(72) MASOUDI, Mansour  
TEGELER IV, Edward, B.  
HENSEL, Jacob, R.  
(31) 201862649793 P  
(32) 29.03.2018  
(33) United States of America
- 
- (51) F01N 11/00  
F01N 3/021  
(11) EP3674525  
(21) EP19219702.8  
(47) 13.09.2023  
(22) 24.12.2019  
(54) CONTROL DEVICE FOR INTERNAL COMBUSTION ENGINE
- (73) Toyota Jidosha Kabushiki Kaisha  
(72) KATOH, Kazumasa  
FUJIWARA, Takahiko  
IGAWA, Kenji  
MINEO, Kentaro  
(31) 2019214722  
2018241662  
(32) 27.11.2019  
25.12.2018  
(33) Japan  
Japan
- 
- (51) F01N 13/00  
F01N 13/18  
(11) EP3899222  
(21) EP19797195.5  
(47) 13.09.2023  
(87) EP2019078885  
25.06.2020  
(22) 23.10.2019  
(54) CONNECTION PIECE AND SENSOR SYSTEM  
(73) Robert Bosch GmbH  
(72) KLOOS, Manuel  
RUSS, Sebastian  
(31) 102018221893  
(32) 17.12.2018  
(33) Germany
- 
- (51) F01N 13/04  
F01N 13/08  
F01N 1/16  
F01N 1/18  
F16K 1/00  
F16K 11/08  
(11) EP3887661  
(21) EP19801586.9  
(47) 13.09.2023  
(87) EP2019081533  
04.06.2020  
(22) 15.11.2019  
(54) GAS FLOW AND SOUND CONTROL VALVE AND EXHAUST GAS SYSTEM  
(73) Akrapovic d.d.  
(72) PENCA, Jure  
AKRAPOVIC, Igor  
(31) 18208611  
(32) 27.11.2018  
(33) European Patent Office (EPO)
- 
- (51) F01P 7/16  
F16K 31/52  
F16K 11/087  
F16K 11/16  
F16K 27/06  
F16K 31/524  
F16K 31/528  
F16K 31/53  
F01P 7/14  
(11) EP3680524  
(21) EP20151517.8  
(47) 13.09.2023  
(22) 13.01.2020  
(54) ACTUATING MECHANISM  
(73) Illinois Tool Works, Inc.  
(72) MA, Yue  
HENKER, Michael  
ZHENG, Ziteng  
FENG, Sheng  
(31) 202010018386  
201910033576

(32) 08.01.2020 14.01.2019	F02K 5/00	(21) EP21204556.1
(33) China	(11) EP3832089	(47) 13.09.2023
China	(21) EP20211349.4	(22) 25.10.2021
(51) F01P 11/04	(47) 13.09.2023	(54) METHODS AND SYSTEMS FOR
F01P 7/16	(22) 02.12.2020	DETERMINING A SYNTHESIZED
F16L 27/12	(54) SYSTEMS AND METHODS FOR	ENGINE PARAMETER
(11) EP4042003	HYBRID ELECTRIC TURBINE	(73) PRATT & WHITNEY CANADA CORP.
(21) EP20792575.1	ENGINES	(72) MIRZAHEKMATI, Daryoush
(47) 13.09.2023	(73) Raytheon Technologies Corporation	SABAU, Ioan
(87) EP2020078444	(72) SUCIU, Gabriel L.	TANG, Poi Loon
15.04.2021	SHARMA, Om P.	(31) 202017078653
(22) 09.10.2020	STAUBACH, Joseph B.	(32) 23.10.2020
(54) FLUID MODULE	MULDOON, Marc J.	(33) United States of America
(73) Sogefi Air & Cooling	CHANDLER, Jesse M.	(51) F02C 9/18
(72) COLIN, Boris	MA, David Lei	F04D 27/02
SCHUB, Arnaud	(31) 201916706058	(11) EP3726032
(31) 201962913917 P	(32) 06.12.2019	(21) EP19169967.7
(32) 11.10.2019	(33) United States of America	(47) 13.09.2023
(33) United States of America	(51) F02C 6/14	(22) 17.04.2019
(51) F02B 47/02	B60K 6/24	(54) BLEED VALVE
F02M 57/00	F02K 5/00	(73) Microtecnica S.r.l.
(11) EP3049653	F02C 7/32	(72) MEZZINO, Giacomo
(21) EP14806343.1	(11) EP3421760	SALVATORIELLO, Gianfranco
(47) 13.09.2023	(21) EP18178260.8	(51) F02D 41/00
(87) GB2014052879	(47) 13.09.2023	F02D 19/02
26.03.2015	(22) 18.06.2018	F02D 19/06
(22) 22.09.2014	(54) HYBRID-ELECTRICPROPULSION	F02D 19/08
(54) INTERNAL COMBUSTION ENGINES	SYSTEM FOR AN AIRCRAFT	F02D 41/10
(73) Hydro-Ject LLC	(73) General Electric Company	F02D 41/40
(72) SHER, Eran	(72) HON, Robert Charles	F02M 21/02
ROSEN, Ian	GANSLER, Michael Thomas	(11) EP4045784
(31) 201320857	(31) 201715632814	(21) EP20792381.4
201316775	(32) 26.06.2017	(47) 13.09.2023
(32) 26.11.2013	(33) United States of America	(87) EP2020078815
20.09.2013	(51) F02C 7/236	22.04.2021
(33) United Kingdom	F02C 9/30	(22) 14.10.2020
United Kingdom	(11) EP3667047	(54) METHOD FOR OPERATING AN
(51) F02C 3/10	(21) EP19216293.1	INTERNAL COMBUSTION ENGINE
F02C 9/16	(47) 13.09.2023	(73) MAN Truck & Bus SE
F02C 3/30	(22) 13.12.2019	(72) MALISCHEWSKI, Thomas
F02C 6/18	(54) FUEL SYSTEMS HAVING REDUCED	HYNA, Dominic
(11) EP2119891	BYPASS FLOW	(31) 102019007221
(21) EP09160295.3	(73) Hamilton Sundstrand Corporation	(32) 17.10.2019
(47) 13.09.2023	(72) TURNEY, Joseph	(33) Germany
(22) 14.05.2009	COCKS, Peter AT	(51) F02D 41/14
(54) Control of working fluid flow of a two-	(31) 201816218865	(11) EP3155250
shaft gas turbine	(32) 13.12.2018	(21) EP15722498.1
(73) Mitsubishi Heavy Industries, Ltd.	(33) United States of America	(47) 13.09.2023
(72) Koganezawa, Tomomi	(51) F02C 7/28	(87) EP2015059842
Higuchi, Shinichi	F02C 7/06	17.12.2015
Takahashi, Yasuo	F01D 11/00	(22) 05.05.2015
Akiyama, Ryo	F04D 29/08	(54) MEHTOD AND APPARATUS FOR
Marushima, Shinya	F04D 29/06	CONTROLLING AN EXHAUST GAS
(31) 2009057281	(11) EP3705703	SENSOR
2008234167	(21) EP20167133.6	(73) Robert Bosch GmbH
2008197176	(47) 13.09.2023	(72) FEY, Michael
2008128100	(22) 14.03.2014	(31) 102014210981
(32) 11.03.2009	(54) SHIELD FOR ARRANGING BETWEEN	(32) 10.06.2014
12.09.2008	A BEARING AND A ROTATING SEAL	(33) Germany
31.07.2008	ELEMENT	(51) F02F 1/24
15.05.2008	(73) Raytheon Technologies Corporation	F02B 37/02
(33) Japan	(72) JAMES, Denman H.	F01N 13/10
Japan	(31) 201361787334 P	(11) EP2532869
Japan	(32) 15.03.2013	(21) EP11169411.3
Japan	(33) United States of America	(47) 13.09.2023
(51) F02C 3/10	(51) F02C 9/00	(22) 10.06.2011
F02K 3/06	G05B 17/00	(54) Combustion engine with four cylinders
(11) EP3988775	(11) EP3988775	arranged in a row

(73) Ford Global Technologies, LLC	(47) 13.09.2023	(72) Roos, Thomas
(72) Kuhlbach, Kai Stump, Ludwig	(87) FR2019051770 23.01.2020	(31) 102011052873 102011002175
(51) F02F 7/00	(22) 15.07.2019	(32) 19.08.2011
F16M 1/021	(54) COMMON-RAIL INJECTION DEVICE	(32) 19.04.2011
F16M 1/025	(73) Duncha France	(33) Germany
F16C 9/02	(72) GRIVEAU, Pierre-Yves	Germany
F02B 77/00	DAUBORD, Gilles	(51) F03B 13/10
(11) EP3526462	(31) 1856543	F03B 13/26
(21) EP17783869.5	(32) 16.07.2018	F03B 17/06
(47) 13.09.2023	(33) France	F03B 15/00
(87) EP2017076256	(51) F02N 11/08	(11) EP3899241
26.04.2018	B60L 15/00	(21) EP18943741.1
(22) 13.10.2017	H01M 8/04	(47) 13.09.2023
(54) CYLINDER BLOCK OF INTERNAL COMBUSTION ENGINE	B60W 10/26	(87) SE2018051348
(73) Caterpillar Motoren GmbH & Co. KG	B60L 1/00	25.06.2020
(72) GREBIEN, Jan	B60R 16/023	(22) 20.12.2018
ABRAHAM, Volker	B60R 16/03	(54) SUBMERSIBLE POWER PLANT FOR PRODUCING ELECTRICAL POWER
WITT, Frank	B60R 16/033	(73) Minesto AB
PETERSEN, Marco	H01M 10/0525	(72) BERGQVIST, Björn
MLYNARCZYK, Paul	H01M 10/48	(51) F03B 13/24
(31) 201617546	H01M 10/42	F03B 13/18
(32) 17.10.2016	H01M 10/663	(11) EP3799611
(33) United Kingdom	B60L 58/25	(21) EP19763200.3
(51) F02K 1/72	B60L 58/24	(47) 13.09.2023
(11) EP3789600	(11) EP3232049	(87) RO2019000007
(21) EP19215410.2	(21) EP15866420.1	12.09.2019
(47) 13.09.2023	(47) 13.09.2023	(22) 08.03.2019
(22) 11.12.2019	(87) CN2015097017	(54) A SYSTEM FOR PRODUCING ELECTRIC CURRENT BY USING SEA/ OCEAN WAVES
(54) TRANSLATING SLEEVE THRUST REVERSER ASSEMBLY	16.06.2016	(73) Popa, Petre
(73) Rohr, Inc.	(22) 10.12.2015	(72) Popa, Petre
(72) PALANISAMY, Jai Ganesh	(54) AUTOMOBILE STARTING CONTROL SYSTEM AND AUTOMOBILE	(31) 201800170
SARAVANAN, Boopathy	(73) BYD Company Limited	(32) 09.03.2018
(31) 201941035802	(72) LIU, Yanchu	(33) Romania
201916665348	PAN, Xiaoping	(51) F03D 1/06
(32) 05.09.2019	PAN, Fuzhong	B29C 37/00
28.10.2019	WANG, Cong	(11) EP3571393
(33) India	MA, Aili	(21) EP18709177.2
United States of America	(31) 201410758912	(47) 13.09.2023
(51) F02M 21/04	(32) 10.12.2014	(87) US2018014149
F02M 26/13	(33) China	26.07.2018
F02M 26/47	(51) F03B 11/04	(22) 18.01.2018
F02M 21/02	F03B 3/12	(54) PROCESS OF USING A FINISHING SYSTEM FOR SURFACES OF A WIND TURBINE BLADE
F02M 26/17	F03B 17/06	(73) Illinois Tool Works Inc.
F02M 26/19	(11) EP3891382	(72) KOKKOT, Ranjith
F02M 35/10	(21) EP20700828.5	PANDEY, Amit
F02D 19/02	(47) 13.09.2023	DUINEVELD, Stephanus, A.n.
F02D 41/00	(87) EP2020051097	DESHPANDE, Subodh
(11) EP3851661	23.07.2020	(31) 201762448500 P
(21) EP19916537.4	(22) 17.01.2020	(32) 20.01.2017
(47) 13.09.2023	(54) HYDROTURBINE RUNNER BLADE LOCAL EXTENSION TO AVOID CAVITATION EROSION	(33) United States of America
(87) CN2019130586	(73) GE Renewable Technologies	(51) F03D 7/02
27.05.2021	(72) BORNARD, Laurent	F03D 7/04
(22) 31.12.2019	DEBEISSAT, Frédéric	(11) EP3899251
(54) GAS MIXING APPARATUS AND NATURAL GAS ENGINE	(31) 19305070	(21) EP19821248.2
(73) Weichai Power Co., Ltd.	(32) 18.01.2019	(47) 13.09.2023
(72) LIU, Zhen	(33) European Patent Office (EPO)	(87) DK2019050385
(31) 201911152738	(51) F03B 13/06	25.06.2020
(32) 22.11.2019	(11) EP3683438	(22) 11.12.2019
(33) China	(21) EP20155775.8	(54) PRIORITIZATION OF POWER GENERATING UNITS OF A POWER PLANT COMPRISING ONE OR MORE WIND TURBINE GENERATORS
(51) F02M 55/02	(47) 13.09.2023	
F02M 55/00	(22) 17.04.2012	
F02M 61/14	(54) PUMP STORAGE UNIT IN A BODY OF WATER AND METHOD OF OPERATION	
(11) EP3824174	(73) Roos, Thomas	
(21) EP19752733.6		

(73) VESTAS WIND SYSTEMS A/S	(22) 21.11.2019	(72) JEONG, Mingeon
(72) WEI, Mu	(54) METHOD FOR PRETENSIONING A TOWER OF A WIND POWER PLANT	PARK, Bokann
KRISHNAN JAMUNA, Karthik	(73) Wobben Properties GmbH	PARK, Kyoungjun
KIDMOSE, Jacob Quan	(72) KERSTEN, Roy	KIM, Seeun
ANDERSEN, Søren Sønderbo	(31) 102018131443	(31) 20200147954
KAPPELGAARD, Søren	(32) 07.12.2018	(32) 06.11.2020
(31) 201811047863	(33) Germany	(33) Korea (Republic)
(32) 18.12.2018	(51) F03D 17/00	(51) F04C 18/02
(33) India	(11) EP3862563	(11) EP3830419
(51) F03D 7/04	(21) EP21154246.9	(21) EP19753260.9
G05B 23/02	(47) 13.09.2023	(47) 13.09.2023
(11) EP3942176	(22) 29.01.2021	(87) EP2019070224
(21) EP20711787.0	(54) METHOD FOR DETERMINING THE DIRECTION OF THE WIND BY MEANS OF A LASER REMOTE DETECTION SENSOR	06.02.2020
(47) 13.09.2023	(73) IFP Energies nouvelles	(22) 26.07.2019
(87) DK2020050060	(72) GUILLEMIN, Fabrice	(54) COOLANT COMPRESSOR
24.09.2020	NGUYEN, Hoai-Nam	(73) IPETRONIK GmbH & Co. KG
(22) 10.03.2020	(31) 2001278	(72) ZIPP, Walter
(54) METHOD FOR DETERMINING PERFORMANCE PARAMETERS IN REAL TIME	(32) 10.02.2020	HARTMANN, Thomas
(73) VESTAS WIND SYSTEMS A/S	(33) France	INHOFF, Andreas
(72) VALCAN, Dumitru-Mihai	(51) F03D 80/50	RIEDRICH, Simon
(31) PA201970170	F16B 19/02	(31) 102018118928
(32) 19.03.2019	F16B 2/12	(32) 03.08.2018
(33) Denmark	(11) EP4031765	(33) Germany
(51) F03D 9/17	(21) EP20765210.8	(51) F04C 18/02
F03D 9/19	(47) 13.09.2023	F04C 29/12
F03D 9/25	(87) EP2020073037	(11) EP3985256
F03D 9/32	25.03.2021	(21) EP20850952.1
F03D 5/06	(22) 18.08.2020	(47) 13.09.2023
B63H 9/071	(54) FASTENING MEANS FOR HEAVY TRANSMISSION PARTS	(87) JP2020029890
B63H 9/072	(73) ZF Friedrichshafen AG	11.02.2021
B63B 25/14	ZF Wind Power Antwerpen NV	(22) 04.08.2020
B64C 31/06	(72) DE LAET, Wim	(54) SCROLL COMPRESSOR
F03D 5/04	AERTS, Jan	(73) Daikin Industries, Ltd.
B63J 3/04	CEYSSENS, Dominiek	(72) YAMADA, Masahiro
(11) EP4038275	(31) 102019214094	(31) 2019143730
(21) EP20817493.8	(32) 17.09.2019	(32) 05.08.2019
(47) 13.09.2023	(33) Germany	(33) Japan
(87) IB2020060681	(51) F04B 17/03	(51) F04C 18/356
20.05.2021	F04B 53/00	F04C 29/12
(22) 13.11.2020	F04B 49/10	F04C 18/32
(54) KITE DRIVEN WATERCRAFT POWER GENERATING SYSTEM	(11) EP3746658	F04C 23/00
(73) OCEANERGY INNOVATION GmbH	(21) EP19746605.5	(11) EP3078859
(72) REINERS, Wolfram Johannes Bernd	(47) 13.09.2023	(21) EP13898730.0
(31) 201916516	(87) US2019015552	(47) 13.09.2023
(32) 13.11.2019	08.08.2019	(87) CN2013088688
(33) United Kingdom	(22) 29.01.2019	11.06.2015
(51) F03D 13/20	(54) EMERGENCY STATION AND METHOD OF USE	(22) 05.12.2013
E04H 12/08	(73) FFP2018, Inc.	(54) ROTARY COMPRESSOR AND COMPRESSION UNIT THEREOF, AND AIR CONDITIONER
F16L 23/16	(72) FLASTER, Michael Leonard	(73) Guangdong Meizhi Compressor Co., Ltd.
(11) EP4001639	(31) 201916259883	(72) ZHOU, Xingbiao
(21) EP20207170.0	201862625616 P	FU, Yongjun
(47) 13.09.2023	(32) 28.01.2019	ZHENG, Liyu
(22) 12.11.2020	02.02.2018	ZHANG, Cheng
(54) COUPLING ASSEMBLY	(33) United States of America	GUO, Hong
(73) Siemens Gamesa Renewable Energy A/S	United States of America	(51) F04D 13/02
(72) KLAASSEN, Jacobus	(51) F04B 39/02	F04D 29/62
DE JONG, Erwin	(11) EP3995696	F04D 13/06
(51) F03D 13/20	(21) EP21205531.3	F16D 1/076
E04H 12/16	(47) 13.09.2023	(11) EP3699435
(11) EP3891386	(22) 29.10.2021	(21) EP18868678.6
(21) EP19808573.0	(54) HERMETIC COMPRESSOR	(47) 13.09.2023
(47) 13.09.2023	(73) LG Electronics Inc.	(87) JP2018038912
(87) EP2019082025		25.04.2019
11.06.2020		(22) 19.10.2018
		(54) PUMP, PUMP DEVICE, AND METHOD OF DISASSEMBLING PUMP DEVICE



(73) EBARA CORPORATION	(32) 27.01.2020	(73) Pierburg Pump Technology GmbH
(72) MIZUKI, Kagenobu	(33) European Patent Office (EPO)	(72) FINDEISEN, Alexander
KAWABATA, Junya	(51) F04D 29/054	PATZNER, Rene
NAKAMURA, Yoichi	F01D 5/06	ZACHER, DR., Wolfgang
(31) 2017203632	(11) EP3084130	(51) F15B 15/22
(32) 20.10.2017	(21) EP14812512.3	B64C 25/02
(33) Japan	(47) 13.09.2023	(11) EP3739221
(51) F04D 13/10	(87) EP2014077894	(21) EP20174231.9
F04D 29/047	25.06.2015	(47) 13.09.2023
F16C 17/02	(22) 16.12.2014	(22) 12.05.2020
H02K 5/132	(54) METHOD OF ASSEMBLING A SET OF	(54) HYDRAULIC CYLINDER PROVIDED
(11) EP3701622	IMPELLERS THROUGH TIE RODS,	WITH A DEVICE FOR SLOWING END-
(21) EP18869770.0	IMPELLER AND TURBOMACHINE	OF-TRAVEL
(47) 13.09.2023	(73) Nuovo Pignone Tecnologie - S.r.l.	(73) Safran Landing Systems
(87) US2018052622	(72) VENKATACHALAM, Kalyan Kumar	(72) KAMIS, Jean-Baptiste
02.05.2019	KURVA, Lakshmanudu	ROGER, Jean-Charles
(22) 25.09.2018	BIGI, Manuele	(31) 1904966
(54) ELECTRICAL DISCHARGE	(31) CO20130071	(32) 13.05.2019
PREVENTION IN BEARING FOR	(32) 18.12.2013	(33) France
SUBMERSIBLE PUMP MOTOR	(33) Italy	(51) F15B 20/00
(73) Baker Hughes Holdings LLC	(51) F04D 29/38	F15B 21/0423
(72) WILCOX, Spencer	F04D 29/00	F04B 39/08
CLINGMAN, James C.	(11) EP3553320	F16K 31/122
(31) 201715793808	(21) EP17888019.1	(11) EP3329129
(32) 25.10.2017	(47) 13.09.2023	(21) EP16736063.5
(33) United States of America	(87) JP2017044226	(47) 13.09.2023
(51) F04D 19/00	05.07.2018	(87) EP2016065758
F04D 25/08	(22) 08.12.2017	09.02.2017
F04D 29/52	(54) PROPELLER FAN	(22) 05.07.2016
F04D 29/64	(73) Daikin Industries, Ltd.	(54) HYDRAULIC DRIVE FOR EXECUTING
(11) EP3848589	(72) IWATA, Tooru	A LINEAR MOVEMENT
(21) EP19870613.7	TOMIOKA, Hirota	(73) Voith Patent GmbH
(47) 13.09.2023	(31) 2017080267	(72) GOLL, Armin
(87) JP2019039042	2016255373	(31) 102016102387
16.04.2020	(32) 14.04.2017	102015009991
(22) 03.10.2019	28.12.2016	(32) 11.02.2016
(54) BLOWER	(33) Japan	31.07.2015
(73) Iris Ohyama Inc.	Japan	(33) Germany
(72) FUKUMASU, Kazuhito	(51) F04D 29/44	Germany
FUJII, Hirokazu	F04D 1/00	(51) F16B 5/00
YAMAMOTO, Hideki	H02K 7/14	G09F 9/33
TSUTSUMI, Kanako	H02K 16/02	F16B 5/10
(31) 2018192033	F04D 13/06	(11) EP3483460
(32) 10.10.2018	(11) EP3822490	(21) EP18811434.2
(33) Japan	(21) EP20211104.3	(47) 13.09.2023
(51) F04D 19/04	(47) 13.09.2023	(87) CN2018072448
F04D 27/00	(22) 03.12.2014	07.02.2019
(11) EP4006350	(54) ROTATING DIFFUSER PUMP	(22) 12.01.2018
(21) EP21213446.4	(73) Flowserve Management Company	(54) LOCKING BUCKLE
(47) 13.09.2023	(72) DREISS, Andreas	(73) Unilumin Group Co. Ltd.
(22) 09.12.2021	FAROOQI, Rehan	(72) HE, Jinfeng
(54) VACUUM PUMP	TOSIN, Stefano	(31) 201710660752
(73) Pfeiffer Vacuum Technology AG	FRIEDRICH, Jens	(32) 04.08.2017
(72) Hopf, Dirk	(31) 201361911269 P	(33) China
(51) F04D 19/04	(32) 03.12.2013	(51) F16B 12/20
F04D 29/52	(33) United States of America	A47B 47/00
G01M 3/02	(51) F04D 29/60	(11) EP3663595
(11) EP3851680	F04D 29/66	(21) EP19213581.2
(21) EP20217527.9	(11) EP3870858	(47) 13.09.2023
(47) 13.09.2023	(21) EP18793410.4	(22) 04.12.2019
(22) 29.12.2020	(47) 13.09.2023	(54) DEVICE FOR MAINTAINING THE
(54) MOLECULAR VACUUM PUMP AND	(87) EP2018079316	POSITION OF A PANEL OF A
METHOD FOR INFLUENCING THE	30.04.2020	PIECE OF FURNITURE WITH
SUCTION PERFORMANCE OF SAME	(22) 25.10.2018	RESPECT TO A BASE AND METHOD
(73) Pfeiffer Vacuum Technology AG	(54) MOTOR VEHICLE PUMP	FOR ASSEMBLING A PIECE OF
(72) Birkenfeld, Max	ARRANGEMENT AND MOUNTING	FURNITURE
Hofmann, Jan	ARRANGEMENT FOR A MOTOR	(73) CAR S.r.l.
(31) 20153779	VEHICLE PUMP ARRANGEMENT	(72) ROVOLETTO, Stefano

(31) 201800010821	Hsu, Ming-Hao	(21) EP22197037.9
(32) 05.12.2018	(31) 109133451	(47) 13.09.2023
(33) Italy	(32) 26.09.2020	(22) 22.09.2022
(51) F16B 19/00	(33) Taiwan, Chinese Taipei	(54) STRUT BEARING DEVICE, VEHICLE
F16B 21/06	(51) F16C 13/00	STRUT SUSPENSION, PRODUCING
F16B 5/04	F16C 13/02	METHOD OF LOWER CASE AND SEAL
F16B 19/10	B21B 31/07	OF STRUT BEARING DEVICE, AND
F16B 19/05	B21B 37/62	PRODUCING METHOD OF UPPER
C22C 45/00	D21G 1/00	CASE AND SEAL OF STRUT BEARING
(11) EP3626981	D21G 1/02	DEVICE
(21) EP19199247.8	(11) EP4077957	(73) Nakanishi Metal Works Co., Ltd.
(47) 13.09.2023	(21) EP20838892.6	(72) SHIBATA, Kohei
(22) 24.09.2019	(47) 13.09.2023	NARAZAKI, Yasuhiro
(54) AMORPHOUS METAL RIVET SYSTEMS	(87) DE2020101009	(31) 2021162914
(73) Liquidmetal Technologies, Inc.	24.06.2021	(32) 01.10.2021
(72) STEVICK, Joseph W.	(22) 30.11.2020	(33) Japan
(31) 201862735225 P	(54) ROLLERS ARRANGEMENT	(51) F16D 1/116
(32) 24.09.2018	(73) Matthews International Corporation	F16D 1/08
(33) United States of America	(72) HACKFORT, Thomas	B01F 27/213
(51) F16B 19/08	BOGENSTAHL, Frank	(11) EP4015857
B21J 15/02	LANSING, Christoph	(21) EP20214036.4
B21J 15/36	WOLTERS, René	(47) 13.09.2023
F16B 37/06	BARTSCH, Harald	(22) 15.12.2020
B23P 19/06	KLEINGRIES, Carsten	(54) DEVICE FOR REVERSIBLY
(11) EP3575618	WOLTERS, Kay	CONNECTING A MIXING TOOL TO A
(21) EP19176764.9	GOTTSZKY, Jörg	MIXER
(47) 13.09.2023	(31) 102019135524	(73) Siemens Healthcare Diagnostics
(22) 27.05.2019	(32) 20.12.2019	Products GmbH
(54) SELF-PIERCING RIVET ELEMENT,	(33) Germany	(72) Klingelhoefer, Armin
ASSEMBLY PART CONSISTING	(51) F16C 33/54	(51) F16D 3/62
OF THE RIVET ELEMENT AND	F16C 19/36	F16D 3/50
A COMPONENT, METHOD FOR	F16C 19/46	(11) EP4089295
PRODUCING THE ASSEMBLY PART	F16C 43/06	(21) EP22173106.0
AND DIE	F16C 19/26	(47) 13.09.2023
(73) Profil Verbindungstechnik GmbH & Co.	(11) EP3770453	(22) 12.05.2022
KG	(21) EP19771435.5	(54) TORQUE TRANSFER COUPLING
(72) Mahlme, Amer	(47) 13.09.2023	(73) PRATT & WHITNEY CANADA CORP.
(31) 102019113560	(87) JP2019004995	(72) SHIELDS, Mark
102018112964	26.09.2019	MENHEERE, David
(32) 21.05.2019	(22) 13.02.2019	KIM, Dennis
30.05.2018	(54) ROLLER BEARING CAGE	(31) 202117320306
(33) Germany	(73) Nakanishi Metal Works Co., Ltd.	(32) 14.05.2021
Germany	(72) YABUBAYASHI Yasuki	(33) United States of America
(51) F16B 25/00	FUKADA Shogo	(51) F16D 11/14
F16B 12/16	HOSOKAWA Tomomi	F16D 41/22
(11) EP3832150	KAMETA Seiji	F16D 43/202
(21) EP20207976.0	TESHIMA Kenji	(11) EP3649363
(47) 13.09.2023	(31) 2019020466	(21) EP18746435.9
(22) 17.11.2020	2018052551	(47) 13.09.2023
(54) SCREW AND METHOD OF	(32) 07.02.2019	(87) US2018041203
ASSEMBLING BY MEANS OF SAID	20.03.2018	10.01.2019
SCREW	(33) Japan	(22) 09.07.2018
(73) WM System Srl	Japan	(54) DISPLACEMENT-ACTUATED
(72) MAZZOLI, William	(51) F16C 33/78	POSITIVE-DRIVE CLUTCH
(31) 201900022686	(11) EP3591245	(73) Parker-Hannifin Corporation
(32) 02.12.2019	(21) EP19182591.8	(72) HEDGE, Jonathan, S.
(33) Italy	(47) 13.09.2023	(31) 201762529717 P
(51) F16B 25/00	(22) 26.06.2019	(32) 07.07.2017
F16B 25/10	(54) SEALED BEARING MODULE	(33) United States of America
(11) EP3974665	(73) Aktiebolaget SKF	(51) F16D 13/54
(21) EP20211418.7	(72) Baumann, Michael	F16D 13/70
(47) 13.09.2023	Hofmann, Matthias	F16D 23/12
(22) 03.12.2020	(31) 102018211020	(11) EP3636946
(54) ANTI-PULLOUT AND LOW-	(32) 04.07.2018	(21) EP18877303.0
RESISTANCE SCREW	(33) Germany	(47) 13.09.2023
(73) Hsu, Kuo-Tai	(51) F16C 33/78	(87) CN2018123422
Hsu, Ming-Hao	F16C 33/76	20.02.2020
(72) Hsu, Kuo-Tai	(11) EP4160033	(22) 25.12.2018

(54) CLUTCH AND VEHICLE PROVIDED WITH SAME	B60G 11/16	(87) EP2019066913
(73) ZHEJIANG SIEKON TRANSMISSION TECHNOLOGY CO., LTD.	(11) EP3842659	02.01.2020
(72) YU, Wenyong	(21) EP19852400.1	(22) 25.06.2019
NAKAO, Akihiro	(47) 13.09.2023	(54) JUNCTION DEVICE FOR CONVEYOR BELT
JIN, Jianhua	(87) JP2019033039	(73) FP Business Invest
(31) 201810915737	27.02.2020	(72) TAVERNIER, Bernard
(32) 13.08.2018	(22) 23.08.2019	(31) 1855731
(33) China	(54) SUSPENSION COIL SPRING DEVICE	(32) 26.06.2018
(51) F16D 25/08	(73) NHK Spring Co., Ltd.	(33) France
F16D 25/12	(72) SHIBATA, Yuichi	
(11) EP4034777	SUWA, Taisuke	(51) F16G 11/06
(21) EP20768531.4	(31) 2018157584	F16G 11/10
(47) 13.09.2023	(32) 24.08.2018	(11) EP3841314
(87) EP2020074379	(33) Japan	(21) EP19758436.0
01.04.2021	(51) F16F 1/38	(47) 13.09.2023
(22) 02.09.2020	F16F 7/108	(87) GB2019000102
(54) SELF-ADJUSTING PNEUMATIC CLUTCH ACTUATOR	(11) EP3940260	27.02.2020
(73) ZF CV Systems Europe BV	(21) EP21184171.3	(22) 17.07.2019
(72) EISFELDER, Stephan	(47) 13.09.2023	(54) CONNECTING DEVICE
(31) 102019126064	(22) 07.07.2021	(73) Gripple Limited
(32) 27.09.2019	(54) DEVICE FOR FILTERING THE VIBRATIONS OF A VEHICLE ENGINE	(72) DAVIS, Simon
(33) Germany	(73) ContiTech Vibration Control GmbH	(31) 201910146
(51) F16D 55/226	(72) GUENO, Eric	201906724
F16D 55/2265	HERCOUET, Roland	201813867
F16D 65/092	KERGUELEN, Franck	(32) 16.07.2019
F16D 65/097	(31) 2007276	13.05.2019
(11) EP3368787	(32) 09.07.2020	24.08.2018
(21) EP16795221.7	(33) France	(33) United Kingdom
(47) 13.09.2023	(51) F16F 7/108	United Kingdom
(87) DE2016100483	B64C 1/40	United Kingdom
04.05.2017	(11) EP4118357	(51) F16H 19/04
(22) 17.10.2016	(21) EP22703449.3	F15B 15/06
(54) DISC BRAKE, AND LEAF SPRING AND MOUNTING BRACKET OF A DISC BRAKE PAD PRESS-UP ASSEMBLY	(47) 13.09.2023	F01B 9/04
(73) BPW Bergische Achsen KG	(87) IB2022050588	(11) EP3627001
(72) GOYKE, Georg	22.09.2022	(21) EP18801927.7
KÖSTER, Fabian	(22) 24.01.2022	(47) 13.09.2023
(31) 102015118291	(54) PASSIVE VIBRATION DAMPING DEVICE FOR AIRCRAFT	(87) CN2018086042
(32) 27.10.2015	(73) Leonardo S.p.A.	22.11.2018
(33) Germany	(72) GRAVAGNONE, Nicola	(22) 08.05.2018
(51) F16D 65/18	DI GIULIO, Massimiliano	(54) RECIPROCATING LINEAR MOTION AND ROTATION MOTION TRANSFORMING DEVICE, AND CYLINDER DEVICE
B60T 13/74	(31) 202100006680	(73) Zheng, Anqing
F16D 55/227	(32) 19.03.2021	(72) Zheng, Anqing
F16D 121/24	(33) Italy	(31) 201710353223
F16D 125/44	(51) F16F 13/06	(32) 18.05.2017
F16D 55/2265	B64C 27/51	(33) China
(11) EP3816470	(11) EP3680510	(51) F16H 48/00
(21) EP19825161.3	(21) EP19214008.5	B23K 33/00
(47) 13.09.2023	(47) 13.09.2023	B23K 101/00
(87) JP2019023446	(22) 06.12.2019	(11) EP3470705
02.01.2020	(54) HYDROELASTIC DAMPER, ROTOR COMPRISING SUCH A HYDROELASTIC DAMPER AND ASSOCIATED AIRCRAFT	(21) EP18197982.4
(22) 13.06.2019	(73) Airbus Helicopters	(47) 13.09.2023
(54) DISK BRAKE	(72) BIHEL, Jean-Romain	(22) 01.10.2018
(73) Hitachi Astemo, Ltd.	SEQUERA, Damien	(54) VEHICULAR DIFFERENTIAL DEVICE AND WELDING METHOD FOR THE SAME
(72) YU, Hao	JALAGUIER, Jean-Pierre	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
ODAIRA, Atsushi	GREGORCZYK, Wojciech	(72) SHIMIZU, Osamu
SAKIMOTO, Koichi	(31) 1873293	IMAI, Nobuharu
(31) 2019013080	(32) 19.12.2018	SUZUKI, Yuji
2018121045	(33) France	(31) 2017197228
(32) 29.01.2019	(51) F16G 3/08	(32) 10.10.2017
26.06.2018	D03D 47/02	(33) Japan
(33) Japan	(11) EP3814653	(51) F16H 61/02
Japan	(21) EP19734353.6	F16H 59/68
(51) F16F 1/12	(47) 13.09.2023	F16H 63/46

F16H 59/02	(11) EP3760901	(73) Otto Egelhof GmbH & Co. KG
A01B 33/08	(21) EP18908252.2	(72) WILLERS, Eike
F16H 59/54	(47) 13.09.2023	AUWEDER, Andreas
(11) EP3869071	(87) JP2018046082	MAURER, Rainer
(21) EP19874051.6	06.09.2019	ROTH, Siegfried
(47) 13.09.2023	(22) 14.12.2018	WAGNER, Bernhard
(87) KR2019012187	(54) SEALING STRUCTURE	HELLMUTH, Uwe
23.04.2020	(73) NOK Corporation	(31) 102018111811
(22) 20.09.2019	(72) HAGIWARA Naoki	(32) 16.05.2018
(54) CONTROL APPARATUS FOR	(31) 2018032669	(33) Germany
TRANSMISSION OF AGRICULTURAL	(32) 27.02.2018	(51) F16K 7/04
WORK VEHICLE AND CONTROL	(33) Japan	(11) EP3458750
METHOD FOR TRANSMISSION OF	(51) F16J 15/16	(21) EP17798450.7
AGRICULTURAL WORK VEHICLE	F16J 15/3212	(47) 13.09.2023
(73) LS Mtron Ltd.	F16J 15/3236	(87) CA2017050590
(72) YU, Ji Hun	(11) EP3312482	23.11.2017
LEE, Jin Woong	(21) EP17198160.8	(22) 16.05.2017
SHIN, Ok Shik	(47) 13.09.2023	(54) SLEEVE FOR USE IN A PINCH VALVE
CHO, Bong Jin	(22) 24.10.2017	(73) Proto Fusion, Inc.
(31) 20190108182	(54) SEAL ASSEMBLIES FOR EXTREME	(72) ST-LAURENT, Patrice
20180124485	TEMPERATURES AND RELATED	(31) 201662338106 P
(32) 02.09.2019	METHODS	(32) 18.05.2016
18.10.2018	(73) Bal Seal Engineering, LLC	(33) United States of America
(33) Korea (Republic)	(72) DILMAGHANIAN, Farshid	(51) F16K 11/074
Korea (Republic)	SORIANO, Marc	F16K 3/08
(51) F16J 15/00	BALSELLS, Peter J.	F16K 31/02
F16J 15/40	ZHOU, Shirley	(11) EP4116611
B63H 23/32	GHASIRI, Majid	(21) EP20958918.3
(11) EP3425243	CHANGSRIVONG, Derek	(47) 13.09.2023
(21) EP18179943.8	MAGANA, Raul	(87) CN2020130143
(47) 13.09.2023	(31) 201662412135 P	05.05.2022
(22) 26.06.2018	(32) 24.10.2016	(22) 19.11.2020
(54) SEA WATER SEAL WITHOUT OIL	(33) United States of America	(54) MANUAL OPERATION AND SENSING
LUBRICATION FOR PODS	(51) F16J 15/34	INTEGRATED FAUCET
(73) GE Energy Power Conversion	F16B 5/02	(73) Xiamen Olt Co., Ltd
Technology Limited	F16B 39/24	(72) ZHANG, Songgen
(72) VINCENT, Loic	F16B 43/00	HONG, Jiaming
(31) 1756327	(11) EP3779247	ZHANG, Zhenguo
(32) 05.07.2017	(21) EP19780777.9	(31) 202011179518
(33) France	(47) 13.09.2023	(32) 29.10.2020
(51) F16J 15/08	(87) JP2019014573	(33) China
F16J 15/46	10.10.2019	(51) F16K 11/074
G21B 1/17	(22) 02.04.2019	F16K 47/04
(11) EP3987200	(54) MECHANICAL SEAL	F16K 31/04
(21) EP20746563.4	(73) Eagle Industry Co., Ltd.	F25B 41/35
(47) 13.09.2023	EagleBurgmann Japan Co., Ltd.	(11) EP3855053
(87) EP2020067051	(72) KITO, Masakazu	(21) EP19847952.9
24.12.2020	TAKIGAHIRA, Yoshiaki	(47) 13.09.2023
(22) 18.06.2020	(31) 2018071502	(87) CN2019098296
(54) METAL SEALING RING AND METHOD	(32) 03.04.2018	13.02.2020
OF FORMING A METAL-TO-METAL	(33) Japan	(22) 30.07.2019
SEAL	(51) F16K 1/36	(54) ELECTRIC SWITCH VALVE AND VALVE
(73) Tokamak Energy Ltd	F16K 1/42	BLOCK THEREOF
(72) LANGTRY, Anthony Vivian	F16K 15/06	(73) Zhejiang Sanhua Intelligent Controls
(31) 201908783	F16K 27/02	CO., Ltd.
(32) 19.06.2019	F25B 40/00	(72) TANG, Hanwei
(33) United Kingdom	F28F 9/02	CHEN, Bin
(51) F16J 15/10	F28F 27/02	(31) 201810889111
F16J 15/3204	F28D 7/10	(32) 07.08.2018
F16J 15/3224	(11) EP3794256	(33) China
F16J 15/3236	(21) EP19725315.6	(51) F16K 15/20
F16J 15/3252	(47) 13.09.2023	F16K 24/06
F16J 15/3268	(87) EP2019062441	(11) EP3619451
F16J 15/3276	21.11.2019	(21) EP17908746.5
F16J 15/34	(22) 15.05.2019	(47) 13.09.2023
F16J 15/44	(54) NON-RETURN VALVE, IN PARTICULAR	(87) CN2017082992
F16J 15/02	FOR A REFRIGERATION OR HEAT	08.11.2018
F16J 15/06	CIRCUIT	(22) 04.05.2017

(54) 3-IN-1 AIR VALVE ASSEMBLY	(11) EP4077996	TOSHIRO, Kenzou
(73) Bestway Inflatables & Material Corp.	(21) EP20838475.0	MIYAZAWA, Misao
(72) HUANG, Shuiyong	(47) 13.09.2023	(31) 2017204620
QIU, Wanbin	(87) EP2020087277	(32) 23.10.2017
ZHAO, Qiao	24.06.2021	(33) Japan
(51) F16K 17/02	(22) 18.12.2020	(51) F16L 13/02
F16K 7/17	(54) SPOOLING AND INSTALLING TRACE-HEATED PIPELINES OF PIPE-IN-PIPE CONFIGURATION	F16L 58/10
F16K 15/14		F16L 58/18
(11) EP3617570	(73) Subsea 7 Limited	(11) EP4058708
(21) EP18790376.0	(72) WORSLEY, Christopher James	(21) EP20811706.9
(47) 13.09.2023	(31) 201918765	(47) 13.09.2023
(87) JP2018016999	(32) 18.12.2019	(87) GB2020052852
01.11.2018	(33) United Kingdom	20.05.2021
(22) 26.04.2018	(51) F16L 3/10	(22) 10.11.2020
(54) GAS-PERMEABLE UNIT	G02B 6/44	(54) IMPROVED METHODS FOR JOINING LINED PIPES AND ASSOCIATED APPARATUS
(73) Nitto Denko Corporation	H02G 3/32	
(72) NAKAYAMA, Yusuke	(11) EP3767144	(73) Flowlining Limited
YANO, Youzou	(21) EP19187354.6	(72) BARNES, Stephen
(31) 2017089673	(47) 13.09.2023	(31) 202006741
(32) 28.04.2017	(22) 19.07.2019	201916543
(33) Japan	(54) MICRO-DUCT GRIP	(32) 06.05.2020
(51) F16K 37/00	(73) Raycap IP Development Ltd.	13.11.2019
G01B 7/00	(72) MARATHIAS, Megaklis	(33) United Kingdom
G05D 7/06	(51) F16L 3/13	United Kingdom
G01D 5/20	(11) EP3688357	(51) F16L 17/04
F16K 31/06	(21) EP18796098.4	(11) EP3988830
F15B 13/04	(47) 13.09.2023	(21) EP20835021.5
F15B 13/044	(87) IB2018001160	(47) 13.09.2023
(11) EP2172683	28.03.2019	(87) CN2020098869
(21) EP08791989.0	(22) 25.09.2018	07.01.2021
(47) 13.09.2023	(54) CABLE CLIPS	(22) 29.06.2020
(87) JP2008063774	(73) PPC Broadband Fiber Ltd.	(54) PIPELINE CONNECTING DEVICE AND COUPLING METHOD
05.02.2009	(72) LEESON, Kim	(73) Shanghai Vision Mechanical Joint Co., Ltd.
(22) 31.07.2008	(31) 201762563057 P	(72) LU, Zhigang
(54) FLOW RATE CONTROL VALVE AND FLOW RATE CONTROL VALVE SPOOL POSITION DETECTION DEVICE	(32) 25.09.2017	ZHAI, Zhibing
(73) Amiteq Co., Ltd.	(33) United States of America	(31) 202010345015
(72) Goto, Atsutoshi	(51) F16L 5/04	201910581107
(31) 2007198214	E04F 17/08	(32) 27.04.2020
(32) 31.07.2007	H02G 3/04	29.06.2019
(33) Japan	H02G 3/22	(33) China
(51) F16K 39/02	(11) EP3660373	China
F16K 15/06	(21) EP19211856.0	
F16K 15/18	(47) 13.09.2023	(51) F16L 29/04
F16K 47/04	(22) 27.11.2019	F16L 37/32
F17C 13/04	(54) A SEALING SYSTEM	F16L 37/56
(11) EP3807561	(73) MCT Brattberg AB	F16L 39/00
(21) EP19818591.0	(72) Andersson, Joakim	E21B 33/038
(47) 13.09.2023	Fagerberg, Ola	B33Y 80/00
(87) IB2019054998	(31) 1851481	F16L 1/26
19.12.2019	(32) 28.11.2018	(11) EP3472502
(22) 14.06.2019	(33) Sweden	(21) EP17733390.3
(54) AN ACTUATED VALVE	(51) F16L 11/12	(47) 13.09.2023
(73) The Bührmann Trust	A62C 33/00	(87) EP2017064681
(72) BÜHRMANN, Rudolph	F16L 11/127	21.12.2017
(31) 201802740	F16L 55/00	(22) 15.06.2017
(32) 15.06.2018	F03B 13/00	(54) POPPET COUPLING
(33) South Africa	(11) EP3702655	(73) FMC Kongsberg Subsea AS
(51) F16L 1/20	(21) EP18869504.3	(72) TANDBERG, Geir
F16L 9/18	(47) 13.09.2023	BERGSLAND, Peter
F16L 59/065	(87) JP2018039074	(31) 20161018
F16L 59/14	02.05.2019	(32) 16.06.2016
F16L 59/16	(22) 19.10.2018	(33) Norway
F16L 53/38	(54) WATER FEED HOSE PROVIDED WITH POWER SUPPLY	(51) F16L 33/207
F16L 17/10	(73) Sakura Rubber Co., Ltd.	(11) EP3877687
F16L 25/01	(72) NAKAMURA, Hiroshi	(21) EP19800999.5
F16L 39/00	CHIBA, Kenji	(47) 13.09.2023

- (87) EP2019080440  
14.05.2020  
(22) 06.11.2019  
(54) SHRINK-FIT COLLAR  
(73) Oetiker Schweiz AG  
(72) MIESSMER, Stefan  
(31) PCT/EP2018/080452  
(32) 07.11.2018  
(33) World Intellectual Property Office (WIPO)  

---

(51) F16L 33/22  
F16L 37/092  
(11) EP3869078  
(21) EP20886170.8  
(47) 13.09.2023  
(87) CN2020094770  
20.05.2021  
(22) 05.06.2020  
(54) SEALING STRUCTURE  
(73) Rifeng Enterprise (Foshan) Co., Ltd.  
Rifeng Enterprise Group Co., Ltd.  
(72) DIAO, Zhenbin  
LI, Ximin  
LIN, Xiyong  
CHENG, Jiajia  
CHEN, Wenfeng  
CAO, Huijian  
CHEN, Ali  
(31) 201911124319  
(32) 15.11.2019  
(33) China  

---

(51) F16L 35/00  
F16L 37/00  
A61M 39/16  
(11) EP3803181  
(21) EP19728037.3  
(47) 13.09.2023  
(87) EP2019064121  
05.12.2019  
(22) 29.05.2019  
(54) CONNECTOR FOR ASEPTIC  
CONNECTION, AND METHOD FOR  
CONNECTING AND DISCONNECTING  
SUCH CONNECTORS  
(73) Cytiva Sweden AB  
(72) GEBAUER, Klaus  
(31) 201808826  
(32) 30.05.2018  
(33) United Kingdom  

---

(51) F16L 37/088  
B25B 9/02  
B25B 27/20  
(11) EP3587885  
(21) EP19183004.1  
(47) 13.09.2023  
(22) 27.06.2019  
(54) QUICK CONNECTION SYSTEM AND  
MANUFACTURING METHOD  
(73) Sogefi Air & Cooling (SAS)  
(72) KREIDER, Julien  
(31) 1855937  
(32) 29.06.2018  
(33) France  

---

(51) F16L 37/23  
F16L 55/00  
G01K 11/12  
G01K 13/02  
G01K 1/14  
(11) EP3805625
- (21) EP19202012.1  
(47) 13.09.2023  
(22) 08.10.2019  
(54) COUPLING SYSTEM FOR HOSE AND /  
OR PIPE LINES AND METHOD FOR  
HANDLING A COUPLING SYSTEM FOR  
HOSE AND / OR PIPE LINES  
(73) Lüdecke GmbH  
(72) SCHNELLINGER, Reinhold  
WEISS, Sebastian  

---

(51) F16L 55/124  
F17C 13/06  
(11) EP3696460  
(21) EP19851320.2  
(47) 13.09.2023  
(87) JP2019012920  
27.02.2020  
(22) 26.03.2019  
(54) VENT PIPE ISOLATION DEVICE  
(73) Mutsubishi Rubber Co., Ltd.  
(72) HARA, Masaki  
MAENO, Kodai  
(31) 2018156135  
(32) 23.08.2018  
(33) Japan  

---

(51) F16L 55/165  
F16L 58/10  
F16L 9/147  
F16L 11/04  
B29C 55/30  
B29C 63/34  
B32B 1/08  
B32B 7/12  
B32B 15/08  
B32B 15/085  
B32B 15/18  
B32B 15/20  
B32B 27/08  
B32B 27/30  
B32B 27/32  
(11) EP4051944  
(21) EP20803236.7  
(47) 13.09.2023  
(87) GB2020052710  
06.05.2021  
(22) 26.10.2020  
(54) IMPROVED PIPE LINER AND  
ASSOCIATED METHODS  
(73) Flowlining Limited  
(72) BARNES, Stephen  
(31) 201915755  
(32) 30.10.2019  
(33) United Kingdom  

---

(51) F16L 55/32  
B08B 9/049  
F16L 55/26  
B08B 9/055  
E21B 37/00  
F16L 55/30  
F16L 55/46  
(11) EP3872384  
(21) EP19874796.6  
(47) 13.09.2023  
(87) BR2019050461  
30.04.2020  
(22) 24.10.2019  
(54) INTERVENTION DRIVE PIG  
COMPRISING AN UMBILICAL
- (73) Petroleo Brasileiro S.A. - PETROBRAS  
Universidade Federal Do Rio Grande Do  
Sul-UFRGS  
(72) LISBOA SANTOS, Hugo Francisco  
SALVI DOS REIS, Ney Robinson  
GALASSI, Maurício  
THOME FERREIRA, Lincoln Homero  
MENDES URSINE KRETTLI, Igor  
DA CUNHA PEREIRA PINTO, Hardy  
Leonardo  
BECKER, Tiago  
COMPARSI LARANJA, Rafael Antônio  
PORCHER NEDEL, Luciana  
AMAYA TORRES, Laura  
TICONA LARICO, Jose Abel  
RIASCOS SALAS, Jaime Andrés  
ALMEIDA DE SOUZA, Gabrielle  
PAIXÃO GEIGER, Filipe  
DISCONZI WILDNER, Fabiano  
WINK DE MENEZES, Eduardo Antonio  
DONADEL BASSO, Eduardo  
STEEVEN VILLA SALAZAR, David  
PERONDI, Eduardo André  
MACIEL, Anderson  
COUTO BARONE, Dante Augusto  
MORATO FRANZ, Juliano  
(31) 102018072062  
(32) 26.10.2018  
(33) Brazil  

---

(51) F16L 59/02  
E04B 1/80  
F16L 59/04  
F16L 59/06  
F25D 23/06  
B32B 5/00  
B29C 70/00  
(11) EP3390884  
(21) EP16808616.3  
(47) 13.09.2023  
(87) EP2016079999  
22.06.2017  
(22) 07.12.2016  
(54) A METHOD OF PRODUCING AN  
INSULATION PRODUCT  
(73) ROCKWOOL A/S  
(72) RAHBEK, Jens Eg  
(31) 15200751  
(32) 17.12.2015  
(33) European Patent Office (EPO)  

---

(51) F16M 13/02  
G09F 9/35  
(11) EP3943798  
(21) EP20773333.8  
(47) 13.09.2023  
(87) CN2020079039  
24.09.2020  
(22) 12.03.2020  
(54) CONTROL METHOD AND DEVICE  
FOR VEHICLE AND MULTI-SCREEN  
SYSTEM THEREOF  
(73) BYD Company Limited  
(72) LIAN, Yubo  
ZHONG, Yilin  
ZHAO, Na  
LIANG, Qun  
PENG, Bei  
(31) 201910213962  
(32) 20.03.2019

(33) China	(33) Spain	B60R 19/02
(51) F16P 3/08	(51) F21S 41/147	F21S 43/20
H02B 1/26	F21S 41/255	F21S 43/30
B30B 9/30	F21S 41/32	F21S 43/50
(11) EP3940286	F21S 41/43	(11) EP3983718
(21) EP21176294.3	(11) EP3353466	(21) EP20735074.5
(47) 13.09.2023	(21) EP16767287.2	(47) 13.09.2023
(22) 27.05.2021	(47) 13.09.2023	(87) EP2020066137
(54) BALER WITH A SWITCH CABINET AND AN AUXILIARY POWER SUPPLY	(87) EP2016072274	17.12.2020
(73) Unotech GmbH	30.03.2017	(22) 10.06.2020
(72) Telscher, Thomas	(22) 20.09.2016	(54) VEHICULAR COMPONENTS HAVING CHROMIUM-BASED REFLECTIVE COATING AT LEAST PARTIALLY PERMEABLE TO LIGHT
(31) 102020118572	(54) LED HEADLAMP PROJECTION LIGHTING DEVICE	(73) Motherson Innovations Company Limited
(32) 14.07.2020	(73) Lumileds LLC	(72) HERRMANN, Andreas
(33) Germany	(72) CHEN, Felix	HEIB, Sascha Björn
(51) F17D 1/04	WU, Ping	FIELD, Simon David
(11) EP3807570	HAN, Meng	(31) 201916439674
(21) EP19746119.7	(31) PCT/CN2015/090231	(32) 12.06.2019
(47) 13.09.2023	15190520	(33) United States of America
(87) FR2019051473	(32) 22.09.2015	(51) F21S 41/24
19.12.2019	20.10.2015	F21S 41/26
(22) 17.06.2019	(33) World Intellectual Property Office (WIPO)	F21S 41/143
(54) ENERGY-OPTIMIZED BACKFEEDING INSTALLATION	European Patent Office (EPO)	G02B 19/00
(73) GRTgaz	(51) F21S 41/148	(11) EP3430459
(72) DUFOUR, Daniel	F21S 41/19	(21) EP17707920.9
SESMAT, Alban	F21S 41/32	(47) 13.09.2023
BAINIER, Francis	F21S 43/14	(87) EP2017055139
(31) 1855299	F21S 43/239	21.09.2017
(32) 15.06.2018	F21S 43/245	(22) 06.03.2017
(33) France	F21S 43/249	(54) ARRANGEMENT OF A TIR BODY
(51) F21S 4/28	F21S 43/31	(73) Lumileds LLC
F21V 5/00	F21S 43/40	(72) MERTENS, Juergen
F21V 7/00	F21S 41/20	MARCHEWKA, Astrid
F21V 13/04	F21S 41/663	HENNINGER, Georg
F21Y 115/10	F21S 45/48	(31) 16160303
(11) EP3832194	(11) EP3961086	(32) 15.03.2016
(21) EP20209714.3	(21) EP21191095.5	(33) European Patent Office (EPO)
(47) 13.09.2023	(47) 13.09.2023	(51) F21V 7/22
(22) 25.11.2020	(22) 12.08.2021	G02B 5/08
(54) OPTICAL SYSTEM FOR INFLUENCING THE LIGHT EMITTED BY AN EXTENDED LIGHT SOURCE	(54) MOTOR VEHICLE ILLUMINATING HEADLIGHT	B29D 11/00
(73) Zumtobel Lighting GmbH	(73) Foshan Sunway Auto Electrical Co., Ltd.	C08L 33/06
(72) ESCOURROU, Thibaut	(72) Chai, Xueqian	C09D 133/06
BIZJAK, Martin	(31) 202021787410 U	(11) EP2875285
(31) 202019106804 U	(32) 24.08.2020	(21) EP13822429.0
(32) 06.12.2019	(33) China	(47) 13.09.2023
(33) Germany	(51) F21S 41/151	(87) US2013050589
(51) F21S 9/03	F21S 41/675	30.01.2014
F21S 8/08	(11) EP3350507	(22) 16.07.2013
H01L 31/02	(21) EP16769933.9	(54) LIGHTING DEVICES COMPRISING OPTICAL REFLECTORS, REFLECTION FILMS AND SHEETS
H01L 31/048	(47) 13.09.2023	(73) Trinseo Europe GmbH
H02S 20/10	(87) EP2016071821	(72) GE, Jiaxin Jason
F21Y 115/10	23.03.2017	AUBART, Mark A.
F21W 131/103	(22) 15.09.2016	(31) 201261674407 P
(11) EP3255335	(54) LIGHTING DEVICE FOR MOTOR VEHICLES	(32) 23.07.2012
(21) EP16746169.8	(73) Valeo Vision	(33) United States of America
(47) 13.09.2023	(72) SANCHEZ, Vanesa	(51) F21V 8/00
(87) ES2016070070	MOREL, Xavier	B29D 11/00
11.08.2016	COURCIER, Marine	G02F 1/1335
(22) 05.02.2016	EVARD, Laurent	F21V 15/00
(54) PHOTOVOLTAIC MODULE	(31) 1558636	G02B 6/00
(73) Caviasca, Alessandro	(32) 15.09.2015	(11) EP3682162
Studio Itinerante Arquitectura, S.L.	(33) France	(21) EP17925315.8
(72) CAVIASCA, Alessandro	(51) F21S 41/20	(47) 13.09.2023
(31) 201530144	F21S 41/30	(87) FI2017050657
(32) 05.02.2015	F21S 41/50	
	B60Q 1/00	

21.03.2019	(73) Emerson Process Management	F24F 1/00
(22) 15.09.2017	Regulator Technologies, Inc.	F28D 15/02
(54) IMPACT RESISTANT LIGHT GUIDE STRUCTURE	(72) WEYER, Thomas L., Jr.	(11) EP3460342
(73) Nanocomp Oy Ltd.	KOTRAGOUDA BASAPPA,	(21) EP18201723.6
(72) KONTTURI, Ville	Madhusudhan Reddy	(47) 13.09.2023
(51) F21V 21/38	(31) 201562240043 P	(22) 19.06.2015
F21S 8/06	(32) 12.10.2015	(54) HEATING SYSTEM
B66D 1/48	(33) United States of America	(73) Flint Engineering Limited
B66D 1/56	(51) F23N 1/02	(72) LESTER, Stephen
B66D 1/60	F23N 5/24	(31) 201410932
F21V 23/04	F23D 14/02	(32) 19.06.2014
(11) EP3702314	(11) EP3754258	(33) United Kingdom
(21) EP18869857.5	(21) EP20178311.5	(51) F24F 1/00
(47) 13.09.2023	(47) 13.09.2023	F24F 11/56
(87) KR2018012797	(22) 04.06.2020	F24F 11/62
02.05.2019	(54) METHOD FOR DETECTING DEFECTS IN A FLUID GUIDING DEVICE	F24F 11/64
(22) 26.10.2018	(73) Robert Bosch GmbH	F24F 11/65
(54) ELEVATING DEVICE FOR HIGH-ELEVATION INSTALLATION EQUIPMENT	(72) Snijder, Ab	F24F 11/72
(73) Reel Tech Co. Ltd.	Hasperhoven, Jeroen	F24F 11/79
(72) SHIN, Jeong Hoon	van Bentem, Maarten	F24F 110/10
(31) 20180090971	de Jong, Bert	F24F 110/20
20170141517	(31) 102019208786	F24F 11/74
(32) 03.08.2018	(32) 17.06.2019	(11) EP4010637
27.10.2017	(33) Germany	(21) EP20761915.6
(33) Korea (Republic)	(51) F23R 3/28	(47) 13.09.2023
Korea (Republic)	F23D 11/38	(87) IT2020050194
(51) F21V 29/83	(11) EP3974726	11.02.2021
F21V 29/77	(21) EP21199934.7	(22) 04.08.2020
F21S 8/08	(47) 13.09.2023	(54) CONDITIONING APPARATUS AND METHOD TO REGULATE IT
F21V 7/00	(22) 29.09.2021	(73) De' Longhi Appliances S.r.l. Con Unico Socio
F21W 131/103	(54) FUEL NOZZLE AND ASSOCIATED METHOD OF ASSEMBLY	(72) LONGO, Raffaele
F21Y 115/10	(73) PRATT & WHITNEY CANADA CORP.	MIRMIRAN, Roshanak
(11) EP3911892	(72) SWABY, Nadia	FACCO, Mauro
(21) EP19835632.1	(31) 202017035974	(31) 201900013962
(47) 13.09.2023	(32) 29.09.2020	(32) 05.08.2019
(87) EP2019084981	(33) United States of America	(33) Italy
23.07.2020	(51) F24C 15/02	(51) F24F 1/0022
(22) 12.12.2019	E05D 3/02	F24F 1/0063
(54) LAMP WITH A PERIPHERALLY CLOSED HEATSINK	E05F 1/12	F24F 13/30
(73) Zumtobel Lighting GmbH	(11) EP3748235	F24F 13/20
(72) FAVAROLO, Angelo	(21) EP20174301.0	(11) EP3726150
(31) 202019100275 U	(47) 13.09.2023	(21) EP18889396.0
(32) 18.01.2019	(22) 13.05.2020	(47) 13.09.2023
(33) Germany	(54) HINGE FOR A COOKING APPLIANCE THAT CAN BE CLOSED BY A DOOR AND COOKING APPLIANCE	(87) JP2018042819
(51) F23G 5/20	(73) Miele & Cie. KG	20.06.2019
F23J 15/06	(72) Render, Joachim	(22) 20.11.2018
F23J 15/04	(31) 102019115144	(54) HEAT EXCHANGE UNIT AND AIR CONDITIONING DEVICE HAVING SAME MOUNTED THEREIN
(11) EP4036471	(32) 05.06.2019	(73) Mitsubishi Electric Corporation
(21) EP21153944.0	(33) Germany	(72) ONAKA, Yoji
(47) 13.09.2023	(51) F24D 11/02	TANISHIMA, Makoto
(22) 28.01.2021	F24F 1/00	MATSUMOTO, Takashi
(54) WASTE INCINERATOR	F28D 15/02	UEMURA, Takamasa
(73) Paluda, Stanislav	(11) EP3460341	FUKUOKA, Hiroki
(72) Paluda, Stanislav	(21) EP18201722.8	ADACHI, Rihito
(51) F23N 1/00	(47) 13.09.2023	(31) 2017238779
(11) EP3362740	(22) 19.06.2015	(32) 13.12.2017
(21) EP16787665.5	(54) HEATING SYSTEM	(33) Japan
(47) 13.09.2023	(73) Flint Engineering Limited	(51) F24F 1/0035
(87) US2016056489	(72) LESTER, Stephen	F24F 7/00
20.04.2017	(31) 201410932	F24F 13/10
(22) 12.10.2016	(32) 19.06.2014	(11) EP3835677
(54) ADJUSTABLE BURNER CONTROL VALVE	(33) United Kingdom	(21) EP18939464.6
	(51) F24D 11/02	(47) 13.09.2023
		(87) CN2018125033



14.05.2020	(73) Qingdao Haier Air-Conditioning Electronic Co., Ltd	(21) EP21183057.5
(22) 28.12.2018	Haier Smart Home Co., Ltd.	(47) 13.09.2023
(54) AIR CONDITIONER INDOOR UNIT		(22) 01.07.2021
(73) Gree Electric Appliances, Inc. of Zhuhai	(72) LENG, Yu	(54) HVAC DEVICE WITH FLUID HANDLING DEVICE AND MOUNTING DEVICE
(72) LIN, Yuliang	SUN, Hui	(73) Robert Bosch GmbH
JIN, Haiyuan	ZHAO, Lei	(72) Kanters, Rene
WANG, Chaoxin	LI, Zhenhong	Mentink, Thomas
CHEN, Shengwen	(31) 201910837881	Kerkmeijer, Tonnie
ZENG, Qinghe	(32) 05.09.2019	Mertens, Ramon
LI, Deqing	(33) China	Haverkort, Andre
FU, Kaikai	(51) F24F 11/49	Vos, Maarten
LIU, Heming	F24F 1/0068	Plantagie, Ralph
LIU, Shengbei	(11) EP3376126	Steenjtes, Rudie
JIA, Feifei	(21) EP16864307.0	(31) 102020208875
LI, Jun	(47) 13.09.2023	(32) 16.07.2020
(31) 201811320755	(87) JP2016083368	(33) Germany
(32) 07.11.2018	18.05.2017	
(33) China	(22) 10.11.2016	(51) F24F 13/28
(51) F24F 3/16	(54) AIR CONDITIONING SYSTEM	F24F 3/16
F24F 6/06	(73) Toshiba Carrier Corporation	B01D 46/00
(11) EP3631309	(72) MATSUBARA Kentaro	B01D 45/16
(21) EP18732655.8	(31) 2015221940	F24F 7/06
(47) 13.09.2023	(32) 12.11.2015	F24F 7/007
(87) EP2018000282	(33) Japan	F24F 8/108
06.12.2018	(51) F24F 11/74	F24F 8/158
(22) 30.05.2018	F24F 11/30	(11) EP3894758
(54) AIR SCRUBBER	F24F 11/36	(21) EP19813536.0
(73) Boneco AG	F24F 11/43	(47) 13.09.2023
(72) FITSCH, Manfred	F24F 11/63	(87) EP2019083726
(31) 7092017	F24F 11/76	18.06.2020
(32) 01.06.2017	F24F 11/77	(22) 04.12.2019
(33) Switzerland	F24F 110/10	(54) AIR PURIFIER
(51) F24F 11/00	F24F 130/00	(73) Blueair AB
F24H 4/00	F24F 11/89	(72) HADDING DELIN, Lars Johan Wilhelm
F24F 11/74	(11) EP3633282	DUNBERGER, Lars Henrik
F24F 11/79	(21) EP17912014.2	SACK, Stefan
F24F 11/86	(47) 13.09.2023	(31) 18211924
F24F 110/10	(87) JP2017020556	(32) 12.12.2018
F24F 120/00	06.12.2018	(33) European Patent Office (EPO)
F24F 140/20	(22) 02.06.2017	(51) F24H 1/14
F24F 140/50	(54) AIR CONDITIONING DEVICE	F24H 9/1818
F25B 13/00	(73) Mitsubishi Electric Corporation	A47J 31/54
F25B 49/02	(72) YAMATANI, Takahiro	H05B 3/06
(11) EP4123236	OKAJIMA, Jiro	H05B 3/48
(21) EP22195670.9	TSUTSUMI, Hiroshi	F22B 1/28
(47) 13.09.2023	(51) F24F 13/08	(11) EP3775710
(22) 07.04.2017	F24F 13/06	(21) EP19721128.7
(54) AIR CONDITIONER	F24F 13/02	(47) 13.09.2023
(73) MITSUBISHI ELECTRIC CORPORATION	(11) EP3584510	(87) IB2019052715
(72) Hirose, Chiyoko	(21) EP19177305.0	10.10.2019
SUGIYAMA, Daisuke	(47) 13.09.2023	(22) 03.04.2019
(51) F24F 11/42	(22) 29.05.2019	(54) ELECTRIC HEATER
F24F 11/64	(54) A TERMINAL DEVICE TO BE CONNECTED TO A VENTHOLE AND A METHOD FOR CONNECTING A TERMINAL DEVICE TO A VENTHOLE	(73) I.R.C.A. S.p.a. Industria Resistenze Corazzate e Affini
F24F 11/65	(73) Climecon OY	(72) MICHELON, Lucio
F24F 11/70	(72) LEHTOVAARA, Sami	CEOTTA, Christian
F25B 47/02	(31) 20185549	DE MOLINER, Antonio
F24F 12/00	(32) 19.06.2018	BORTOLUZZI, Christian
(11) EP4027070	(33) Finland	ZOPPAS, Federico
(21) EP20860254.0	(51) F24F 13/20	(31) 201800004169
(47) 13.09.2023	F24H 9/06	(32) 03.04.2018
(87) CN2020070797	F24H 9/13	(33) Italy
11.03.2021	F24F 1/60	(51) F24H 4/02
(22) 08.01.2020	F24F 13/32	F24H 1/18
(54) TOTAL HEAT RECOVERY DEFROSTING CONTROL METHOD AND CONTROL DEVICE, AND AIR CONDITIONING APPARATUS	F24F 1/10	F24H 4/04
	(11) EP3940301	F24H 9/20
		(11) EP3757477
		(21) EP18906993.3

(47) 13.09.2023	(32) 05.02.2020	F25B 40/00
(87) JP2018006727	(33) United States of America	(11) EP3933306
29.08.2019	(51) F25B 39/00	(21) EP20820037.8
(22) 23.02.2018	F28D 1/053	(47) 13.09.2023
(54) HOT WATER SUPPLY DEVICE	F28F 1/02	(87) JP2020010241
(73) Mitsubishi Electric Corporation	F28F 1/40	16.09.2021
(72) YOSHIDA, Jun	F28F 13/06	(22) 10.03.2020
TAKAYAMA, Keisuke	F24F 1/18	(54) REFRIGERANT CONTROL SYSTEM
(51) F25B 1/00	(11) EP4060252	AND REFRIGERATION SYSTEM
F25B 13/00	(21) EP20887565.8	(73) ATS Japan Co., Ltd.
F25B 43/00	(47) 13.09.2023	(72) SATO, Toshimi
F25B 47/02	(87) JP2020040840	SHIMIZU, Kazushige
F25B 45/00	20.05.2021	FUKAMI, Yasuhiro
F25B 49/02	(22) 30.10.2020	KARIYA, Tomoyuki
(11) EP3361185	(54) HEAT TRANSFER PIPE AND HEAT	(51) F25B 49/02
(21) EP15905829.6	EXCHANGER	F24F 11/36
(47) 13.09.2023	(73) Daikin Industries, Ltd.	F24F 13/20
(87) JP2015078657	(72) SATOU, Ken	F24F 1/0043
13.04.2017	SAKAMAKI, Tomohiko	F24F 1/0063
(22) 08.10.2015	UCHIDA, Kengo	F24F 11/89
(54) REFRIGERATION CYCLE DEVICE	ORITANI, Yoshio	F24F 13/22
(73) Mitsubishi Electric Corporation	(31) 2019205903	F25B 13/00
(72) ITO, Masahiro	(32) 14.11.2019	F25B 49/00
ITO, Takuya	(33) Japan	F24F 110/66
OKOSHI, Yasushi	(51) F25B 39/04	(11) EP3998443
ISHIDA, Kazuyuki	B60H 1/00	(21) EP20840735.3
(51) F25B 1/00	F25B 43/00	(47) 13.09.2023
F25B 49/02	F28F 19/00	(87) JP2020026929
F24F 1/68	F28F 19/01	21.01.2021
F24F 5/00	F28B 1/06	(22) 09.07.2020
F24F 11/30	(11) EP3671068	(54) INDOOR UNIT OF REFRIGERATION
F24F 11/46	(21) EP18461649.8	EQUIPMENT
F24F 11/83	(47) 13.09.2023	(73) Daikin Industries, Ltd.
F24F 11/85	(22) 18.12.2018	(72) TSUJI, Yoshiyuki
F24F 1/06	(54) HEAT EXCHANGER WITH FILTER, FOR	KOJIMA, Makoto
F24F 140/20	REFRRIGERANT FLUID LOOP	(31) 2019130645
F24F 140/50	(73) Valeo Autosystemy SP. Z.O.O.	(32) 12.07.2019
(11) EP3839373	(72) CICHOSZ, Filip	(33) Japan
(21) EP18930228.4	KACZMARCZYK, Mateusz	(51) F25B 49/02
(47) 13.09.2023	POKRYWINSKI, Karol	F25B 1/00
(87) JP2018030533	SUS, Pawe	F24F 11/36
20.02.2020	(51) F25B 41/20	F25B 5/02
(22) 17.08.2018	(11) EP3458782	F24F 3/06
(54) FREE COOLING SYSTEM	(21) EP17733526.2	F24F 140/00
(73) Mitsubishi Electric Corporation	(47) 13.09.2023	(11) EP3486584
(72) MUKAITANI, Naoya	(87) IB2017052873	(21) EP17827616.8
HIKONE, Takahito	23.11.2017	(47) 13.09.2023
YAMANO, Yoshio	(22) 16.05.2017	(87) JP2017025241
KADOWAKI, Kimitaka	(54) REFRIGERATION PLANT WITH	18.01.2018
ITO, Takuya	MULTIPLE EVAPORATION LEVELS	(22) 11.07.2017
OKOSHI, Yasushi	AND METHOD OF MANAGING SUCH A	(54) REFRIGERATION SYSTEM
(51) F25B 1/10	PLANT	(73) Daikin Industries, Ltd.
F25B 5/02	(73) Epta S.p.A.	(72) SAKAE, Satoru
F25B 31/00	(72) CAVALLERI, Paolo	KONDOU, Azuma
F25B 41/42	DE BONA, Mario	(31) 2016140612
F25B 41/20	MAZZOLA, Daniele	(32) 15.07.2016
F25B 49/02	(31) UA20163465	(33) Japan
F25B 9/00	(32) 16.05.2016	(51) F25B 49/02
(11) EP3862652	(33) Italy	F25D 11/00
(21) EP21154923.3	(51) F25B 43/00	F25D 23/00
(47) 13.09.2023	F25B 1/00	F25D 29/00
(22) 03.02.2021	F25B 1/10	F25B 47/02
(54) COOLING SYSTEM WITH VERTICAL	F25B 5/02	F25B 49/00
ALIGNMENT	F25B 6/02	(11) EP3859251
(73) Heatcraft Refrigeration Products LLC	F25B 25/00	(21) EP19867145.5
(72) MARTIN, Nicole Z.	F25B 41/20	(47) 13.09.2023
ZHA, Shitong	F25B 41/24	(87) JP2019037875
(31) 202016782545	F25B 49/02	02.04.2020

(22) 26.09.2019	(22) 29.09.2020	(22) 05.04.2004
(54) ABNORMALITY DETERMINATION DEVICE FOR TRANSPORTING FREEZING DEVICE, TRANSPORTING FREEZING DEVICE INCLUDING THIS ABNORMALITY DETERMINATION DEVICE, AND ABNORMALITY DETERMINATION METHOD FOR TRANSPORTING FREEZING DEVICE	(54) VACUUM ADIABATIC BODY AND REFRIGERATOR	(54) DEVICE FOR COOLING FIRED BULK MATERIAL
(73) DAIKIN INDUSTRIES, LTD.	(73) Qingdao Haier Refrigerator Co., Ltd.	(73) Claudius Peters Projects GmbH
(72) SATOU Kiichirou	(72) Haier Smart Home Co., Ltd.	(72) Meyer, Hartmut
(31) 2018184239	(72) FEI, Bin	Staak, Thomas
(32) 28.09.2018	ZHU, Xiaobing	Wallace, Archibald
(33) Japan	LIU, Zhanzhan	Wallis, Helmut
(51) F25D 23/02	LI, Peng	(31) 03010386
(11) EP3745061	ZHANG, Peng	(32) 08.05.2003
(21) EP20176055.0	(31) 202010011081	(33) European Patent Office (EPO)
(47) 13.09.2023	(32) 06.01.2020	(51) F28D 1/02
(22) 22.05.2020	(33) China	F28F 13/12
(54) FRIDGE AND / OR FREEZER	(51) F25D 23/12	F04D 29/28
(73) Liebherr-Hausgeräte Ochsenhausen GmbH	(11) EP3945273	F04D 29/42
(72) Rapp, Stefan	(21) EP21188479.6	(11) EP3657112
(31) 102019119089	(47) 13.09.2023	(21) EP18897833.2
102019114487	(22) 29.07.2021	(47) 13.09.2023
(32) 15.07.2019	(54) REFRIGERATOR	(87) CN2018075741
29.05.2019	(73) LG Electronics Inc.	04.07.2019
(33) Germany	(72) YOU, Jimin	(22) 08.02.2018
Germany	(31) 20200095408	(54) HEAT EXCHANGE ASSEMBLY AND HEAT EXCHANGE DEVICE
(51) F25D 23/02	(32) 30.07.2020	(73) Gree Electric Appliances, Inc. of Zhuhai
F25D 25/02	(33) Korea (Republic)	(72) DONG, Mingzhu
(11) EP3967957	(51) F25J 1/00	TAN, Jianming
(21) EP20823603.4	F25J 1/02	XIA, Guanghui
(47) 13.09.2023	F25B 1/047	LIANG, Bo
(87) CN2020079988	F25B 31/00	WANG, Xianlin
17.12.2020	F25B 43/02	LAI, Xiaocheng
(22) 18.03.2020	(11) EP3612778	LIAO, Junjie
(54) REFRIGERATOR	(21) EP18721105.7	(31) 201711468487
(73) Qingdao Haier Refrigerator Co., Ltd.	(47) 13.09.2023	(32) 27.12.2017
Haier Smart Home Co., Ltd.	(87) GB2018051012	(33) China
(72) HUI, Bin	25.10.2018	(51) F28D 1/03
WANG, Ning	(22) 18.04.2018	F28F 9/02
LI, Shidong	(54) METHOD OF COOLING BOIL-OFF GAS	H01M 10/6556
LIU, Zhijun	(73) LGE IP MANAGEMENT COMPANY LIMITED	F28F 3/12
HU, Xiaobin	(72) FELBAB, Nikola	(11) EP3931507
(31) 201920869914 U	(31) 201706265	(21) EP20725809.6
(32) 11.06.2019	(32) 20.04.2017	(47) 13.09.2023
(33) China	(33) United Kingdom	(87) FR2020050417
(51) F25D 23/06	(51) F25J 1/00	10.09.2020
(11) EP2589904	F25J 5/00	(22) 02.03.2020
(21) EP12007264.0	F28C 3/08	(54) TEMPERATURE CONTROL DEVICE, IN PARTICULAR COOLING DEVICE FOR A MOTOR VEHICLE
(47) 13.09.2023	F28D 9/00	(73) VALEO SYSTEMES THERMIQUES
(22) 22.10.2012	F28F 3/04	(72) DJALLAL, Fethy
(54) Refrigerator	(11) EP3767210	VERON, Julien
(73) LG Electronics Inc.	(21) EP19766710.8	BELLENFANT, Aurélie
(72) Jung, Wonyeong	(47) 13.09.2023	HERRY, Marc
Youn, Deokhyun	(87) JP2019009009	(31) 1902122
(31) 20110113415	19.09.2019	(32) 01.03.2019
(32) 02.11.2011	(22) 07.03.2019	(33) France
(33) Korea (Republic)	(54) RELIQUEFACTION DEVICE	(51) F28D 1/047
(51) F25D 23/06	(73) Kabushiki Kaisha Kobe Seiko Sho (Kobe Steel, Ltd.)	F25B 39/00
F25D 23/02	(72) NOISHIKI, Koji	F28F 1/12
F25D 11/02	(31) 2018045437	F28F 9/00
(11) EP4060264	(32) 13.03.2018	F28F 21/08
(21) EP20911944.5	(33) Japan	(11) EP4124817
(47) 13.09.2023	(51) F26B 17/26	(21) EP22177649.5
(87) CN2020118856	F27B 7/38	(47) 13.09.2023
15.07.2021	F27D 15/02	(22) 07.06.2022
	F27D 19/00	(54) HEAT EXCHANGER UNIT PARTICULARLY EFFICIENT
	B65G 25/06	(73) I.M.A.T. S.p.A.
	(11) EP1939116	(72) SOMENZI, Daniele
	(21) EP07025135.0	
	(47) 13.09.2023	

(31) 202100020570	(73) Valeo Autosystemy SP. Z.O.O.	(73) Nortek Air Solutions Canada, Inc.
(32) 30.07.2021	(72) BELZOWSKI, Michal	(72) ERB, Blake Norman
(33) Italy	POKRYWINSKI, Karol	HANSON, Stephen
(51) F28D 1/047	SZOSTEK, Dawid	AFSHIN, Mohammad
F28D 21/00	AUGUSTYN, Milosz	(31) 201414190715
F28F 1/08	(51) F28D 15/02	201361783048 P
F28F 21/06	(11) EP4083562	(32) 26.02.2014
H01M 10/643	(21) EP22169484.7	14.03.2013
H01M 10/6557	(47) 13.09.2023	(33) United States of America
(11) EP3878045	(22) 22.04.2022	United States of America
(21) EP19801674.3	(54) LOOP HEAT PIPE	(51) F28F 9/007
(47) 13.09.2023	(73) SHINKO ELECTRIC INDUSTRIES CO., LTD.	(11) EP4036511
(87) EP2019078462	(72) MACHIDA, Yoshihiro	(21) EP22153846.5
14.05.2020	(31) 2021074035	(47) 13.09.2023
(22) 18.10.2019	(32) 26.04.2021	(22) 28.01.2022
(54) A SUPPORT STRUCTURE FOR A DUCT	(33) Japan	(54) PLATE HEAT EXCHANGER
(73) XEROTECH LIMITED	(51) F28D 20/02	(73) Marcel Labbe
(72) FLANNERY, Barry	F28F 1/12	(72) LABBE, Thomas
(31) 201818053	(11) EP3465053	(31) 2100891
(32) 05.11.2018	(21) EP17735225.9	(32) 29.01.2021
(33) United Kingdom	(47) 13.09.2023	(33) France
(51) F28D 7/02	(87) IB2017053255	(51) F28F 9/02
F28D 1/047	07.12.2017	(11) EP3943866
F28D 21/00	(22) 01.06.2017	(21) EP20187386.6
F02C 7/14	(54) HEAT EXCHANGER DEVICE	(47) 13.09.2023
(11) EP3705828	COMPRISING A PHASE-CHANGE MATERIAL	(22) 23.07.2020
(21) EP19216221.2	(73) Edge Innovation Aveiro, Unipessoal Lda	(54) HEAT EXCHANGER
(47) 13.09.2023	(72) DE JESUS TEIXEIRA, Rui Pedro	(73) Valeo Systemes Thermiques
(22) 13.12.2019	(31) 2016109420	(72) WUNGKAHARD, Supawadee
(54) HEAT EXCHANGER COMPRISING HEADERS WITH FRACTAL GEOMETRY	16199704	PHAKDEEBUN, Surawut
(73) Hamilton Sundstrand Corporation	(32) 01.06.2016	CHOEINAM, Jaturong
(72) BECENE, Ahmet T.	18.11.2016	SRATONGHOI, Poonsin
RUIZ, Gabriel	(33) Portugal	(51) F28F 9/22
FENG, Feng	European Patent Office (EPO)	F28F 9/26
MAYNARD, Michael	(51) F28F 1/04	F28D 7/16
DOE, Michael	F28D 1/053	F28D 9/00
HU, Michele	F28D 7/16	F28D 11/02
JOSEPH, Ephraim	F28F 1/02	F28F 9/02
(31) 201962815831 P	F28F 1/26	F28G 1/02
(32) 08.03.2019	F28F 3/04	(11) EP3638971
(33) United States of America	F28F 9/02	(21) EP18817315.7
(51) F28D 7/16	(11) EP3901551	(47) 13.09.2023
F28D 9/00	(21) EP21169740.4	(87) IL2018050637
F28F 9/02	(47) 13.09.2023	20.12.2018
F28D 21/00	(22) 21.04.2021	(22) 11.06.2018
(11) EP4015959	(54) MODIFIED SHAPED HEAT EXCHANGER INLETS/OUTLETS	(54) PLATE AND SHELL HEAT EXCHANGING SYSTEM HAVING A DIVIDED MANIFOLD TUBE
(21) EP20461595.9	(73) Raytheon Technologies Corporation	(73) Livni, Zvi
(47) 13.09.2023	(72) SPANGLER, Brandon W.	Livni, Omer
(22) 15.12.2020	PACK, David R.	(72) Livni, Zvi
(54) HEAT EXCHANGER	STILLMAN, William P.	Livni, Omer
(73) Valeo Autosystemy Sp. z o.o.	(31) 202016854661	(31) 201762517926 P
(72) BELZOWSKI, Michal	(32) 21.04.2020	(32) 11.06.2017
SZOSTEK, Dawid	(33) United States of America	(33) United States of America
AUGUSTYN, Milosz	(51) F28F 3/08	(51) F28F 13/18
(51) F28D 9/00	F24F 12/00	H02G 5/10
F28F 9/00	F28F 3/10	(11) EP3816569
F25B 39/00	F28D 21/00	(21) EP20204814.6
B60H 1/00	F28D 9/00	(47) 13.09.2023
F28D 21/00	F28F 9/00	(22) 30.10.2020
(11) EP3517874	(11) EP3730892	(54) HEAT DISSIPATING CLADDING
(21) EP18461509.4	(21) EP20180081.0	(73) Rockwell Automation Technologies, Inc.
(47) 13.09.2023	(47) 13.09.2023	(72) SUROWKA, Piotr
(22) 29.01.2018	(22) 04.03.2014	(31) 201916671031
(54) HEAT EXCHANGING MODULE HAVING A HOUSING COMPRISING AN INNER FRAME AND AN OUTER FRAME	(54) MEMBRANE-INTEGRATED ENERGY EXCHANGE ASSEMBLY	(32) 31.10.2019
		(33) United States of America

(51) F28F 21/04 F28F 21/02	(32) 18.10.2017 18.10.2017	SYSTEM RELATIVE TO THE INKJET COORDINATE SYSTEM
(11) EP3309497	18.10.2017	(73) BOARD OF REGENTS THE
(21) EP16193638.0	18.10.2017	UNIVERSITY OF TEXAS SYSTEM
(47) 13.09.2023	11.10.2017	(72) SREENIVASAN, Sidgata, V.
(22) 13.10.2016	13.04.2017	SINGHAL, Shrawan
(54) HOT GAS HEAT EXCHANGER FOR A HEAT EXCHANGER ENGINE OF AN AIRCRAFT OR SPACECRAFT, METHOD FOR PRODUCING A HEAT EXCHANGER ELEMENT FOR A HOT GAS HEAT EXCHANGER	(33) United States of America United States of America United States of America United States of America United States of America United States of America	(31) 201662339454 P (32) 20.05.2016 (33) United States of America
(73) Airbus Defence and Space GmbH	(51) G01B 11/00	(51) G01B 21/00
(72) Steinwandel, Jürgen Wilhelmi, Christian Piringer, Helmut Wang, Ning	G06Q 50/08 G06Q 10/06	G01B 5/00 G01B 11/02 B01J 8/00 G01D 11/30 B01J 19/24
(51) F41A 17/52	(11) EP3928056	(11) EP3998449
F41A 19/16	(21) EP20706210.0	(21) EP20836015.6
F41A 19/17	(47) 13.09.2023	(47) 13.09.2023
F41A 19/15	(87) EP2020054210	(87) JP2020025796
(11) EP3748278	27.08.2020	14.01.2021
(21) EP20177479.1	(22) 18.02.2020	(22) 01.07.2020
(47) 13.09.2023	(54) COMPUTER-IMPLEMENTED METHOD, COMPUTER PROGRAM PRODUCT AND SYSTEM FOR DETERMINING INSTALLATION DATA RELATING TO THE POSITION OF AT LEAST ONE WATER ENGINEERING FACILITY TO BE INSTALLED	(54) DISTANCE-MEASURING DEVICE AND DISTANCE-MEASURING METHOD
(22) 29.05.2020		(73) Nippon Shokubai Co., Ltd.
(54) TRIGGER UNIT FOR A FIREARM		(72) NISHIGUCHI, Toshiya
(73) BENELLI ARMI S.p.A.		(31) 2019127660
(72) Moretti, Luigi		(32) 09.07.2019
(31) 201900007983	(73) ACO Ahlmann SE & Co. KG	(33) Japan
(32) 04.06.2019	(31) 102019104172	(51) G01B 21/04
(33) Italy	(32) 19.02.2019	G01B 5/008
(51) F41G 7/22	(33) Germany	G01B 5/012
G02B 17/08	(51) G01B 11/06	G01B 11/00
G01S 7/481	A61C 7/08	(11) EP3818336
(11) EP3899411	B29C 51/46	(21) EP19758898.1
(21) EP19821118.7	G01B 11/24	(47) 13.09.2023
(47) 13.09.2023	(11) EP3574284	(87) EP2019068019
(87) EP2019086243	(21) EP18706305.2	09.01.2020
25.06.2020	(47) 13.09.2023	(22) 04.07.2019
(22) 19.12.2019	(87) IB2018050429	(54) MEASURING ARM HAVING A MULTI- FUNCTIONAL END
(54) OPTICAL DETECTION DEVICE OF A SELF-GUIDED FLYING VEHICLE	02.08.2018	(73) Hexagon Metrology SAS
(73) Safran Electronics & Defense	(22) 24.01.2018	(72) DESFORGES, Laurent
(72) DAVENEL, Arnaud MARIE, Daniel	(54) METHOD OF MEASURING THE THICKNESS OF DEVICES OBTAINED BY THERMOFORMING	DUPORTAL, Thibault ROUX, Denis FAMECHON, Jean-Luc INGLIS, Wes
(31) 1873483	(73) Airnivol S.p.A.	(31) 1856255
(32) 20.12.2018	(72) BARONE, Sandro	(32) 06.07.2018
(33) France	PAOLI, Alessandro	(33) France
(51) G01B 5/008	RAZIONALE, Armando Viviano	(51) G01C 11/02
G01B 1/00	(31) 201700008019	G08B 13/196
G01B 5/00	(32) 25.01.2017	G06T 7/11
(11) EP3610221	(33) Italy	H04N 7/18
(21) EP18784589.6	(51) G01B 11/30	(11) EP3845858
(47) 13.09.2023	B05D 1/02	(21) EP20217634.3
(87) US2018027511	B05D 1/40	(47) 13.09.2023
18.10.2018	B05D 1/42	(22) 29.12.2020
(22) 13.04.2018	B05D 3/12	(54) USING THREE DIMENSIONAL DATA FOR PRIVACY MASKING OF IMAGE DATA
(54) ULTRA-LIGHT AND ULTRA- ACCURATE PORTABLE COORDINATE MEASUREMENT MACHINE	G01N 21/88 G01N 21/89 B81C 1/00	(73) Faro Technologies, Inc.
(73) SA08700334	(11) EP3458807	(72) HEIDEMANN,, Rolf WOLKE, Matthias
(72) SAJEDI, Allen	(21) EP17800256.4	(31) 202062956382 P
(31) 201715787558	(47) 13.09.2023	(32) 02.01.2020
201715787554	(87) US2017033584	(33) United States of America
201715787552	23.11.2017	(51) G01C 19/5607
201715787549	(22) 19.05.2017	H10N 30/00
201715730517	(54) PRECISION ALIGNMENT OF THE SUBSTRATE COORDINATE	
201715486427		

(11) EP3842742	(51) G01C 21/36	(51) G01D 3/08
(21) EP19866617.4	G06Q 50/26	G01D 18/00
(47) 13.09.2023	G06Q 50/30	G06V 20/56
(87) JP2019037633	G06V 10/82	(11) EP3757587
02.04.2020	G06V 20/58	(21) EP19214115.8
(22) 25.09.2019	G07C 5/08	(47) 13.09.2023
(54) SENSOR ELEMENT AND ANGULAR	G08G 1/01	(22) 06.12.2019
VELOCITY SENSOR	G08G 1/16	(54) FLEXIBLE TEST BOARD TO IMPROVE
(73) Kyocera Corporation	G08G 1/0967	SENSOR I/O COVERAGE FOR
(72) SOEJIMA, Munetaka	G08G 1/14	AUTONOMOUS DRIVING PLATFORM
TAKANAMI, Shun	G07C 5/00	(73) Baidu USA LLC
(31) 2018184760	(11) EP3836114	(72) OH, Kwan
(32) 28.09.2018	(21) EP20212813.8	ZHANG, Tiffany
(33) Japan	(47) 13.09.2023	ZHANG, Manjiang
(51) G01C 19/72	(22) 09.12.2020	(31) 201916457315
(11) EP3875903	(54) VEHICLE TERMINAL DEVICE,	(32) 28.06.2019
(21) EP18938457.1	SERVICE SERVER, METHOD,	(33) United States of America
(47) 13.09.2023	COMPUTER PROGRAM, COMPUTER	(51) G01D 4/00
(87) CN2018113213	READABLE RECORDING MEDIUM	G01D 3/08
07.05.2020	FOR PROVIDING DRIVING RELATED	G08B 21/04
(22) 31.10.2018	GUIDANCE SERVICE	H04L 12/14
(54) BIDIRECTIONAL OPTICAL-CARRYING	(73) Thinkware Corporation	H04Q 9/00
MICROWAVE RESONANCE SYSTEM	(72) KANG, Young Su	(11) EP4009002
BASED ON CIRCULATOR STRUCTURE	(31) 20190164008	(21) EP21209394.2
AND METHOD FOR DETECTING	(32) 10.12.2019	(47) 13.09.2023
ANGULAR VELOCITY BY SAID	(33) Korea (Republic)	(22) 19.11.2021
SYSTEM	(51) G01C 25/00	(54) METER HEALTH FUNCTION
(73) Zhejiang University	B60R 1/00	(73) Honeywell International Inc.
(72) SONG, Kaichen	G06T 7/80	(72) LAMPE-JUERGENS, Christian
YU, Jinlong	G01C 11/00	(31) 202017247129
YE, Lingyun	B60R 11/04	(32) 01.12.2020
WANG, Ju	(11) EP3769045	(33) United States of America
(51) G01C 21/16	(21) EP19715383.6	(51) G01D 4/00
G01C 21/30	(47) 13.09.2023	G01D 18/00
B61L 25/02	(87) DE2019100257	G01F 25/00
(11) EP3887759	26.09.2019	G01F 1/66
(21) EP19836473.9	(22) 19.03.2019	(11) EP4060290
(47) 13.09.2023	(54) METHOD FOR DETERMINING THE	(21) EP22172242.4
(87) EP2019082918	POSITION AND ORIENTATION OF	(47) 13.09.2023
04.06.2020	THE COORDINATES SYSTEM OF AT	(22) 18.07.2014
(22) 28.11.2019	LEAST ONE CAMERA IN A VEHICLE	(54) A METHOD AND A SYSTEM FOR TEST
(54) METHOD AND APPARATUS FOR	RELATIVE TO THE COORDINATES	AND CALIBRATION OF WIRELESS
DETERMINING A POSITION OF A	SYSTEM OF THE VEHICLE	CONSUMPTION METERS
VEHICLE	(73) Dürr Assembly Products GmbH	(73) Apator Miitors ApS
(73) Thales Holdings UK Plc	(72) TENTRUP, Thomas	(72) DRACHMANN, Jens
(72) BATCHELOR, Andrew	PFEIL, Holger-Thorsten	HELSTRUP, Kresten
WATSON, Douglas	(31) 102018106464	BORUP, Thorbjørn
(31) 201819620	(32) 20.03.2018	(51) G01D 5/14
(32) 30.11.2018	(33) Germany	(11) EP3667249
(33) United Kingdom	(51) G01D 3/036	(21) EP19214838.5
(51) G01C 21/20	G01D 5/20	(47) 13.09.2023
G01C 21/36	G01B 7/00	(22) 10.12.2019
B62D 15/02	G01D 5/244	(54) STEERING POSITION ROTARY
G01C 21/12	(11) EP3640601	SENSOR ASSEMBLY
(11) EP3543653	(21) EP19187970.9	(73) Littelfuse, Inc.
(21) EP17870780.8	(47) 13.09.2023	(72) KRUGER, Jay
(47) 13.09.2023	(22) 24.07.2019	(31) 201816214487
(87) CN2017095038	(54) POSITION MEASURING DEVICE AND	(32) 10.12.2018
24.05.2018	METHOD FOR OPERATING SAME	(33) United States of America
(22) 28.07.2017	(73) Dr. Johannes Heidenhain GmbH	(51) G01D 5/14
(54) NAVIGATION METHOD BASED ON	(72) SCHWAIGER, Werner	(11) EP3807598
ALONG-THE-WAY REFERENCE	ROSENEGGER, Gregor	(21) EP19745193.3
OBJECT MATCHING	MITTERER, Andreas	(47) 13.09.2023
(73) NIO (Anhui) Holding Co., Ltd.	SCHMIDT, Ludwig	(87) FR2019051408
(72) MA, Xiang	STRASSER, Erich	19.12.2019
(31) 201611049020	(31) 102018217934	(22) 11.06.2019
(32) 21.11.2016	(32) 19.10.2018	
(33) China	(33) Germany	

(54) METHOD FOR DETERMINING A RELATIVE ANGULAR POSITION BETWEEN TWO PARTS	03.12.2020 (22) 17.01.2020 (54) UNIVERSAL INDUSTRIAL TRANSMITTER MOUNTING	H01Q 9/04 (11) EP3374742 (21) EP16790382.2 (47) 13.09.2023 (87) EP2016076562 18.05.2017
(73) Electricfil Automotive (72) JERANCE, Nikola (31) 1855274 (32) 15.06.2018 (33) France	(73) Rosemount Inc. (72) ROBINSON, Cory NEUHARTH, Jared MARSO, Zach CHHUOY, Hun	(22) 03.11.2016 (54) RADAR BASED FLUID LEVEL SENSOR (73) Endress+Hauser SE+Co. KG (72) MAYER, Winfried HITZLER, Martin WALDSCHMIDT, Christian
(51) G01D 5/14 B64C 11/30 (11) EP3730902 (21) EP20171408.6 (47) 13.09.2023 (22) 24.04.2020	(31) 201916426384 (32) 30.05.2019 (33) United States of America	(31) 102015119690 (32) 13.11.2015 (33) Germany
(54) BLADE ANGLE POSITION FEEDBACK SYSTEM WITH OFFSET SENSORS	(11) EP3601961 (21) EP18709310.9 (47) 13.09.2023 (87) EP2018054926 27.09.2018 (22) 28.02.2018	(51) G01F 23/284 G01S 13/10 G01S 7/40 G01S 13/88 G01S 7/41 (11) EP3256880 (21) EP16749624.9 (47) 13.09.2023 (87) US2016016684 18.08.2016 (22) 05.02.2016
(73) Pratt & Whitney Canada Corp. (72) TOMESCU, Dana (31) 201962838378 P (32) 25.04.2019 (33) United States of America	(54) METHOD OF OPERATING A MAGNETO-INDUCTIVE FLOWMETER AND MAGNETO-INDUCTIVE FLOWMETER	(54) MARKING TANK OBSTRUCTIONS USING AN ELECTRONIC LEVEL GAUGE (73) Honeywell International Inc. (72) MULDOWNNEY, Mark L. (31) 201514622582 (32) 13.02.2015 (33) United States of America
(51) G01D 5/14 G01D 11/30 G01R 33/06 G01R 33/07 G01R 33/09 G01D 11/24 (11) EP4006494 (21) EP21210586.0 (47) 13.09.2023 (22) 25.11.2021	(73) Endress+Hauser Flowtec AG (72) SCHMALZRIED, Frank (31) 102017105959 (32) 20.03.2017 (33) Germany	(54) SENSOR CAPABLE OF DETECTING THE MAGNETIC FIELD OF A REMOTE ENCODER OF AN AIR GAP
(54) NTN-SNR ROULEMENTS (72) DUNOYER, Aymeric (31) 2012265 (32) 27.11.2020 (33) France	(51) G01F 1/66 G01F 15/02 G01F 25/00 G01F 1/667 G01F 25/10 (11) EP3719451 (21) EP19888241.7 (47) 13.09.2023 (87) CN2019074368 06.08.2020 (22) 01.02.2019	(33) United States of America
(51) G01D 5/20 (11) EP4170289 (21) EP21204416.8 (47) 13.09.2023 (22) 25.10.2021	(54) SIGNAL PROCESSING CIRCUIT, AND RELATED CHIP, FLOWMETER AND METHOD	(51) G01F 23/284 G01S 13/88 G01D 3/08 G01D 11/24 G05B 19/418 G01S 7/02 (11) EP3631383 (21) EP18727790.0 (47) 13.09.2023 (87) EP2018063982 06.12.2018 (22) 29.05.2018
(54) INDUCTIVE ANGLE MEASURING DEVICE	(73) SHENZHEN GOODIX TECHNOLOGY CO., LTD. (72) CHANG, Jung-Yu HUANG, Yen-Hin	(54) FIELD DEVICE (73) Rosemount Tank Radar AB (72) NILSSON, Leif FREDRIKSSON, Hakan NYBERG, Hakan (31) 201715608188 (32) 30.05.2017 (33) United States of America
(73) Dr. Johannes Heidenhain GmbH (72) TIEMANN, Marc Oliver HEUMANN, Martin FRANK, Alexander	(51) G01F 23/24 (11) EP3555574 (21) EP17791403.3 (47) 13.09.2023 (87) EP2017077762 21.06.2018 (22) 30.10.2017	(54) MULTI-TURN ROTARY ENCODER
(51) G01D 5/24 (11) EP4180774 (21) EP21208394.3 (47) 13.09.2023 (22) 16.11.2021	(54) FAIL-SAFE LIMIT LEVEL SWITCH	(51) G01F 23/284 G01S 13/88 H02H 9/00 (11) EP3899454 (21) EP18825696.0 (47) 13.09.2023 (87) EP2018086257 25.06.2020 (22) 20.12.2018
(54) MULTI-TURN ROTARY ENCODER	(73) Endress+Hauser SE+Co. KG (72) DÖTSCH, Michael JEHLE, Max SANDOR, Izabella WERNET, Armin	(54) GUIDED WAVE RADAR LEVEL GAUGE WITH EXPLOSION PROOF HOUSING AND FLOATING BARRIER (73) Rosemount Tank Radar AB (72) NILSSON, Leif
(73) SICK AG (72) Tabler, Eduard Gao, Rick	(31) 102016124364 (32) 14.12.2016 (33) Germany	
(51) G01D 11/30 G01D 11/24 G01F 15/14 G01F 15/18 (11) EP3953664 (21) EP20704762.2 (47) 13.09.2023 (87) US2020013982	(51) G01F 23/284 G01S 7/03 G01S 13/88 H01Q 1/22 H01L 23/00	

NYBERG, Håkan	(73) Ishida Co., Ltd.	G01G 23/00
ERIKSSON, Mikael	(72) KAGEYAMA Toshiharu	G01L 1/26
(51) G01F 23/80	(31) 2016054931	G01G 21/24
G01F 23/284	(32) 18.03.2016	(11) EP2977731
G01F 23/14	(33) Japan	(21) EP14770471.2
G01F 23/24	(51) G01G 19/393	(47) 13.09.2023
G01F 23/26	(11) EP3995794	(87) CN2014072356
(11) EP3628985	(21) EP21205699.8	25.09.2014
(21) EP18197579.8	(47) 13.09.2023	(22) 21.02.2014
(47) 13.09.2023	(22) 29.10.2021	(54) ELASTIC BODY OF WEIGHING
(22) 28.09.2018	(54) COMBINATION WEIGHING	SENSOR
(54) FILL LEVEL MEASURING DEVICE	APPARATUS	(73) Mettler Toledo (Changzhou) Precision
USING A CONTINUOUSLY	(73) ISHIDA CO., Ltd.	Instrument Ltd.
MEASURING FILL LEVEL SENSOR	(72) ODA, Kazuteru	Mettler Toledo (Changzhou)
AND METHOD FOR OPERATING SUCH	KAGEYAMA, Toshiharu	Measurement Technology Ltd.
A FILL LEVEL MEASURING DEVICE	IMAAKI, Naomi	Mettler Toledo (Changzhou)
(73) VEGA Grieshaber KG	(31) 2020185844	Scale&System Ltd.
(72) Haas, Jürgen	(32) 06.11.2020	(72) WANG, Wei
Motzer, Jürgen	(33) Japan	HAO, Degang
Grießbaum, Karl	(51) G01G 19/393	TANG, Youan
Skowaisa, Jürgen	G01G 13/02	(31) 201310211407
(51) G01G 7/04	(11) EP3879246	201310086434
G01G 21/30	(21) EP21160802.1	(32) 29.05.2013
(11) EP3910300	(47) 13.09.2023	18.03.2013
(21) EP21171149.4	(22) 04.03.2021	(33) China
(47) 13.09.2023	(54) CONVEYANCE MECHANISM	China
(22) 29.04.2021	AND COMBINATION WEIGHING	(51) G01G 23/00
(54) INTEGRATED HIGH-PRECISION	APPARATUS	G01G 23/48
WEIGHING MODULE WITH REDUCED	(73) Ishida Co., Ltd.	(11) EP3759462
THERMAL GRADIENT	(72) MIYAMOTO, Hideshi	(21) EP19760013.3
(73) Mettler Toledo (Changzhou) Precision	KISHIKAWA, Mikio	(47) 13.09.2023
Instrument Ltd.	ENAMI, Shinya	(87) CN2019073344
Mettler Toledo (Changzhou)	(31) 2020047425	06.09.2019
Measurement Technology Ltd.	2020040883	(22) 28.01.2019
Mettler-Toledo International Trading	(32) 18.03.2020	(54) HIGH PRECISION WEIGHING
(Shanghai) Co. Ltd.	10.03.2020	SYSTEM AND WEIGHING METHOD,
(72) Huang, DanDan	(33) Japan	THERMOGRAVIMETRIC ANALYSER
Li, Xiang	Japan	AND STORAGE MEDIUM
Zhang, Ping	(51) G01G 19/414	(73) Mettler Toledo Precision Instrument
Cai, JinJie	G01G 23/37	Company Limited
(31) 202010393055	G01G 23/36	Mettler Toledo Measurement Technology
(32) 11.05.2020	G16H 20/60	Company Limited
(33) China	G16H 40/67	Mettler-Toledo International Trading
(51) G01G 19/08	G06Q 50/22	(Shanghai) Co., Ltd.
B60W 40/13	G09B 19/00	(72) XU, Lei
(11) EP3872461	G09B 23/28	EMERY, Jean-Christophe
(21) EP20315024.8	A61B 5/00	(31) 201810163724
(47) 13.09.2023	(11) EP2408350	(32) 27.02.2018
(22) 27.02.2020	(21) EP10753760.7	(33) China
(54) METHOD FOR DETERMINING THE	(47) 13.09.2023	(51) G01H 3/04
LOADING STATE OF A TRANSPORTER	(87) SE2010000061	G01H 17/00
AND TRANSPORT MANAGEMENT	23.09.2010	G06F 30/20
SYSTEM	(22) 15.03.2010	G06F 30/30
(73) Continental Automotive Technologies	(54) METHOD AND SYSTEM FOR	(11) EP3407032
GmbH	MEASURING AND PRESENTING	(21) EP18170676.3
(72) Segesser, Carsten	EATING RATE	(47) 13.09.2023
Rollet, Benjamin	(73) Mandometer AB	(22) 03.05.2018
(51) G01G 19/387	(72) BERGH, Cecilia	(54) METHOD FOR DETERMINING THE
B65G 65/40	SÖDERSTEN, Per	NOISE DISTRIBUTION OF A CIRCUIT
B65G 11/02	(31) 0900352	FOR OPTIMISING THE LAYOUT OF
G01G 19/393	409364	THE CIRCUIT
(11) EP3431936	(32) 19.03.2009	(73) AVL Software And Functions GmbH
(21) EP17766498.4	23.03.2009	(72) REINDL, Hartwig
(47) 13.09.2023	(33) Sweden	OLBRICH, Peter
(87) JP2017009251	United States of America	(31) 102017109712
21.09.2017	(51) G01G 21/00	(32) 05.05.2017
(22) 08.03.2017	G01G 21/30	(33) Germany
(54) COMBINATION WEIGHING DEVICE	G01G 3/14	(51) G01J 1/08



G01J 3/02	(54) SENSITIVE PIXEL BASED DETECTION	(33) United States of America
G01J 3/10	SYSTEM COMPRISING A THERMAL	(51) G01K 13/024
G01J 3/28	DETECTOR AND A COMPENSATION	G01L 19/00
G01J 3/46	DEVICE	G01K 13/02
G01J 3/50	(73) COMMISSARIAT À L'ÉNERGIE	(11) EP3926316
G01N 1/31	ATOMIQUE ET AUX ÉNERGIES	(21) EP21177587.9
G02B 21/36	ALTERNATIVES	(47) 13.09.2023
G06T 7/90	(72) ALIANE, Abdelkader	(22) 03.06.2021
(11) EP3446083	CHARPENTIER, Alain	(54) SENSOR FOR GAS TURBINE ENGINE
(21) EP17786613.4	(31) 1854635	(73) Honeywell International Inc.
(47) 13.09.2023	(32) 30.05.2018	(72) ANDERSON, Morris
(87) US2017028532	(33) France	ANTHONY, Peter
26.10.2017	(51) G01K 1/024	(31) 202016904295
(22) 20.04.2017	(11) EP4102197	(32) 17.06.2020
(54) DIGITAL PATHOLOGY COLOR	(21) EP22176047.3	(33) United States of America
CALIBRATION	(47) 13.09.2023	(51) G01L 1/14
(73) Leica Biosystems Imaging Inc.	(22) 30.05.2022	G01L 1/20
(72) OLSON, Allen	(54) TEMPERATURE DETECTION SYSTEM	(11) EP3779387
(31) 201662325330 P	(73) Shenzhen ChuangXinLian Electronics	(21) EP20181333.4
(32) 20.04.2016	Co., Ltd	(47) 13.09.2023
(33) United States of America	(72) Huang, Hong	(22) 22.06.2020
(51) G01J 1/42	Peng, Bin	(54) IMPROVED ELECTROACTIVE
G01J 5/12	(31) 202221165280 U	POLYMER PRESSURE SENSOR FOR
G01K 17/00	202110603649	LOAD MEASUREMENT
(11) EP3642575	(32) 16.05.2022	(73) Parker-Hannifin Corporation
(21) EP18734165.6	31.05.2021	(72) YORK, Alexander
(47) 13.09.2023	(33) China	(31) 201962885591 P
(87) EP2018066480	China	(32) 12.08.2019
27.12.2018	(51) G01K 7/24	(33) United States of America
(22) 20.06.2018	G01K 13/02	(51) G01L 1/24
(54) DETECTOR OF ELECTROMAGNETIC	G01K 13/024	G01L 1/25
RADIATION	A61M 16/00	G01B 11/16
(73) LASER POINT s.r.l.	A61M 16/08	(11) EP4016030
(72) SCORTICATI, Davide	A61M 16/10	(21) EP21215427.2
PELLEGRINO, Sergio	(11) EP3779385	(47) 13.09.2023
CRAPELLA, Giacomo	(21) EP20177117.7	(22) 17.12.2021
(31) 201700070606	(47) 13.09.2023	(54) LIGHT EMITTING APPARATUS
(32) 23.06.2017	(22) 31.01.2014	(73) NINTENDO CO., LTD.
(33) Italy	(54) WIRE HEATED TUBE WITH	(72) OGASAWARA, Yoshiyasu
(51) G01J 3/02	TEMPERATURE CONTROL SYSTEM	FURUIKE, Hironori
G01J 3/28	FOR HUMIDIFIER FOR RESPIRATORY	(31) 2020210147
G01J 3/12	APPARATUS	(32) 18.12.2020
G01J 3/44	(73) ResMed Pty Ltd	(33) Japan
(11) EP4027120	(72) VOS, Adrian Ashley	(51) G01L 5/28
(21) EP21214266.5	HUBY, Ronald James	B60T 8/00
(47) 13.09.2023	TANG, Zhuo Ran	B60T 17/00
(22) 14.12.2021	(31) 2013900328	G01B 5/00
(54) APPARATUS AND METHOD	(32) 01.02.2013	G01L 1/16
FOR MEASURING SPECTRAL	(33) Australia	(11) EP3722768
COMPONENTS OF RAMAN	(51) G01K 13/02	(21) EP19167970.3
SCATTERED LIGHT	G01K 1/14	(47) 13.09.2023
(73) TimeGate Instruments Oy	G01K 1/143	(22) 08.04.2019
(72) Kurki, Lauri	G01K 1/08	(54) SENSOR DEVICE FOR DETECTING
Alasaarela, Ilkka	G01K 7/42	BRAKE FORCES IN A VEHICLE AND
(31) 20215016	F16L 41/00	MEASUREMENT SYSTEM
(32) 08.01.2021	(11) EP3857191	(73) Joanneum Research
(33) Finland	(21) EP19865673.8	Forschungsgesellschaft mbH
(51) G01J 5/80	(47) 13.09.2023	Messfeld GmbH
G01J 5/02	(87) US2019051901	Dewesoft GmbH
G01J 5/04	02.04.2020	(72) Zirkl, Martin
G01J 5/06	(22) 19.09.2019	Tschepp, Andreas
G01J 5/20	(54) LOW CONTACT CLAMP FOR	Isopp, Jutta
(11) EP3803299	NON-INVASIVE PROCESS FLUID	Wernigg, Herbert
(21) EP19739674.0	TEMPERATURE INDICATION	(51) G01L 9/00
(47) 13.09.2023	(73) Rosemount Inc.	(11) EP3800455
(87) FR2019051231	(72) CAVANAUGH, Jack M.	(21) EP20199773.1
05.12.2019	(31) 201816139319	(47) 13.09.2023
(22) 28.05.2019	(32) 24.09.2018	

(22) 02.10.2020	(73) B2 Sensors GmbH	(21) EP21162061.2
(54) CEREBROSPINAL-FLUID-PRESSURE-MEASURING DEVICE	(72) BENAVIDES NORIEGA, Roberto Enrique BERGER, Axel	(47) 13.09.2023
(73) Biosense Webster (Israel) Ltd.	(31) 102018112526	(22) 11.03.2021
(72) GOVARI, Assaf	(32) 24.05.2018	(54) ANTICORROSION TEST METHOD AND ANTICORROSION TEST EQUIPMENT FOR COATED METALLIC MATERIAL
(73) SITNITSKY, Ilya	(33) Germany	(73) MAZDA MOTOR CORPORATION
(72) ALGAWI, Yehuda	(51) G01N 1/28	(72) ASADA, Teruaki
(31) 201916591912	G01N 1/02	SASAKI, Katsunobu
(32) 03.10.2019	G05B 19/4155	SHIGENAGA, Tsutomu
(33) United States of America	G01N 35/00	(31) 2020073084
(51) G01L 19/14	G01N 1/00	(32) 15.04.2020
H05K 13/00	G01N 35/10	(33) Japan
E21B 47/06	C12Q 1/6844	
E21B 47/017	(11) EP3645997	(51) G01N 21/15
(11) EP3575548	(21) EP18823058.5	B08B 3/12
(21) EP19171790.9	(47) 13.09.2023	B08B 17/02
(47) 13.09.2023	(87) KR2018007392	B08B 9/027
(22) 17.02.2012	03.01.2019	(11) EP3243071
(54) SONDE WITH INTEGRAL PRESSURE SENSOR AND METHOD	(22) 29.06.2018	(21) EP16735460.4
(73) Merlin Technology Inc.	(54) METHOD AND DEVICE FOR CONTROLLING DETECTION-COMPOSITION PREPARATION INSTRUMENT	(47) 13.09.2023
(72) CHAU, Albert W.	(73) Seegene, Inc.	(87) US2016012611
FELDMAN, Dmitry	(72) KIM, Seong-Su	14.07.2016
MEDEIROS, Benjamin John	Ji, Na-Young	(22) 08.01.2016
(31) 201113071302	MIN, Kyung-Hyun	(54) METHOD OF OBTAINING OR MAINTAINING OPTICAL TRANSMITTANCE INTO DEAERATED LIQUID
(32) 24.03.2011	(31) 20170082664	(73) Ecolab USA Inc.
(33) United States of America	(32) 29.06.2017	(72) HICKS, Peter D.
(51) G01L 27/00	(33) Korea (Republic)	Li, Hui
G01K 15/00	(51) G01N 1/31	BRADLEY, Michael E.
(11) EP3422054	G01N 35/00	MURCIA, Michael J.
(21) EP18162458.6	(11) EP3161449	SCHWARTZ, Joe L.
(47) 13.09.2023	(21) EP15733423.6	(31) 201514592219
(22) 19.03.2018	(47) 13.09.2023	(32) 08.01.2015
(54) GAUGE WITH ADAPTIVE CALIBRATION AND METHOD	(87) EP2015064518	(33) United States of America
(73) SERCEL	07.01.2016	(51) G01N 21/27
(72) BRAVARD, Nicolas	(22) 26.06.2015	A61B 5/00
(31) 201715481713	(54) AUTOMATED SPECIMEN PROCESSING SYSTEMS AND METHODS	A61B 5/1455
(32) 07.04.2017	(73) Ventana Medical Systems, Inc.	A61B 5/1495
(33) United States of America	(72) KETTERER, Matthew	G01N 21/64
(51) G01M 13/00	SCHURIG, Michael	G01N 21/77
B60T 17/04	WILLEMS, John	(11) EP3865854
B33Y 80/00	DURRANT, Timothy	(21) EP20165007.4
(11) EP3540402	QUIJADA, Jorge Nicolas	(47) 13.09.2023
(21) EP19161505.3	(31) 201462018827 P	(22) 23.03.2020
(47) 13.09.2023	(32) 30.06.2014	(54) CALIBRATION OF A SENSOR
(22) 08.03.2019	(33) United States of America	(73) SciLogica Corp.
(54) APPARATUS FOR TESTING ENDURANCE OF BRAKE HOSE	(51) G01N 15/14	(72) BARWELL, Nicholas Paul
(73) HS R & A Co., Ltd.	G01N 15/10	CRANE, Barry Colin
(72) KIM, Younkyou	G01N 21/64	MACKENZIE, Alasdair Allan
LEE, Jaehong	(11) EP3441743	PERKINS, Robert
(31) 20180028420	(21) EP18187469.4	SAGAR, Praveen
(32) 12.03.2018	(47) 13.09.2023	(31) 202016792563
(33) Korea (Republic)	(22) 06.08.2018	(32) 17.02.2020
(51) G01N 1/10	(54) SAMPLE ANALYZER AND SAMPLE ANALYZING METHOD	(33) United States of America
G01N 1/40	(73) SYSMEX CORPORATION	(51) G01N 21/27
G01N 33/18	(72) Konishi, Yusuke	G02B 6/28
H01J 49/04	Yamada, Kazuhiro	G02B 6/36
(11) EP3803319	Matsumoto, Shohei	G02B 6/38
(21) EP19725928.6	(31) 2017155942	G02B 27/01
(47) 13.09.2023	(32) 10.08.2017	G02B 27/18
(87) DE2019100437	(33) Japan	G02B 26/10
28.11.2019	(51) G01N 17/02	(11) EP3559633
(22) 14.05.2019	(11) EP3896428	(21) EP17882339.9
(54) UNDERWATER GAS MEASUREMENT APPARATUS FOR GASES DISSOLVED IN WATER		(47) 13.09.2023
		(87) US2017067982
		28.06.2018

(22) 21.12.2017	08.12.2016	(32) 28.04.2017
(54) METHODS AND SYSTEMS FOR MULTI-ELEMENT LINKAGE FOR FIBER SCANNING DISPLAY	(22) 05.04.2016	(33) Sweden
(73) Magic Leap, Inc.	(54) INTEGRATED BREATH ALCOHOL SENSOR SYSTEM	(51) G01N 21/39
(72) SCHOWENGERDT, Brian T. WATSON, Mathew D. MELVILLE, Charles David LEE, William Andrew	(73) Automotive Coalition for Traffic Safety, Inc.	G01N 27/407
(31) 201662438415 P	(72) MARTIN, Hans, Göran Evald RÖDJEGÅRD, Henrik HENNING, Jan-Åke ZYRIANOV, Pavel	G01N 33/497
(32) 22.12.2016	(31) 201562171566 P	G01N 21/3504
(33) United States of America	(32) 05.06.2015	G01N 21/03
(51) G01N 21/31	(33) United States of America	G01N 21/35
B01L 3/00	(51) G01N 21/3563	(11) EP3977095
G01N 33/49	G01N 21/3581	(21) EP20746338.1
G01N 33/72	G01N 21/3586	(47) 13.09.2023
B01D 57/02	(11) EP3749949	(87) US2020034970
(11) EP3833466	(21) EP19710449.0	03.12.2020
(21) EP19848214.3	(47) 13.09.2023	(22) 28.05.2020
(47) 13.09.2023	(87) FR2019050254	(54) INTEGRATED DEVICE FOR FLUID ANALYSIS
(87) US2019044294	15.08.2019	(73) SI-Ware Systems
13.02.2020	(22) 05.02.2019	(72) SABRY, Yasser, M. FATHY, Alaa KHALIL, Diaa, Abdelmaguid BOUROUINA, Tarik SAADANY, Bassam, A.
(22) 31.07.2019	(54) TERAHERTZ REFLECTION IMAGING SYSTEM	(31) 202016885186
(54) METHOD AND DEVICE FOR DETERMINING THE CONCENTRATION OF ANALYTES IN WHOLE BLOOD	(73) Tihive	201962853671 P
(73) Siemens Healthcare Diagnostics Inc.	(72) SHERRY, Hani	(32) 27.05.2020
(72) MEHTA, Kalpesh AZHAR, Mohiudeen	(31) 1851025	28.05.2019
(31) 201862715019 P	(32) 07.02.2018	(33) United States of America
(32) 06.08.2018	(33) France	United States of America
(33) United States of America	(51) G01N 21/3563	(51) G01N 21/45
(51) G01N 21/31	G01N 21/55	G02B 27/54
G06T 7/00	G01N 21/84	G02B 27/48
G06V 20/69	(11) EP3542148	B08B 15/02
G01N 21/17	(21) EP17804503.5	B01J 4/00
A61B 10/02	(47) 13.09.2023	G01N 21/15
G01J 3/02	(87) EP2017079543	B01L 1/04
G01J 3/28	24.05.2018	F24F 3/163
G06V 10/58	(22) 17.11.2017	(11) EP4062152
H04N 23/11	(54) PORTABLE DEVICE AND METHOD FOR ESTIMATING A PARAMETER OF A POLYMER	(21) EP20824086.1
G01N 33/483	(73) Electricité de France Sorbonne Université	(47) 13.09.2023
(11) EP3770584	(72) RIBES CORTES, Alejandro BEN CHOUIKHA, Mohamed	(87) EP2020082737
(21) EP19772299.4	(31) 1661235	27.05.2021
(47) 13.09.2023	(32) 18.11.2016	(22) 19.11.2020
(87) JP2019011152	(33) France	(54) METHOD FOR DETECTING PRIMARY GAS FLOWS IN FLOW CHAMBERS
26.09.2019	(51) G01N 21/39	(73) LaVision GmbH
(22) 18.03.2019	G01N 21/61	(72) BERG, Thomas
(54) BIOLOGICAL TISSUE ANALYZING DEVICE, BIOLOGICAL TISSUE ANALYZING PROGRAM, AND BIOLOGICAL TISSUE ANALYZING METHOD	G01M 3/38	(31) 102019131328
(73) Nakaya, Daiki	(11) EP3615919	(32) 20.11.2019
(72) SATORI Shin NAKAYA, Daiki	(21) EP18727156.4	(33) Germany
(31) 2018051114	(47) 13.09.2023	(51) G01N 21/47
(32) 19.03.2018	(87) EP2018061019	A61B 5/00
(33) Japan	01.11.2018	G01B 9/02091
(51) G01N 21/3504	(22) 30.04.2018	G01B 9/02003
G01N 21/31	(54) APPARATUS AND METHOD FOR MEASURING CONCENTRATION OF MULTIPLE GASES IN A HEADSPACE OF CLOSED CONTAINERS FOR FOOD OR PHARMACEUTICALS USING TDLAS	G01B 9/02001
G01N 21/03	(73) GasPorOx AB	G01N 21/17
G01N 21/15	(72) LEWANDER XU, Märta LUNDIN, Patrik SWARTLING, Johannes	(11) EP3657155
G01N 33/497	(31) 1750515	(21) EP18834921.1
(11) EP3304045		(47) 13.09.2023
(21) EP16716787.3		(87) JP2018026936
(47) 13.09.2023		24.01.2019
(87) US2016026024		(22) 18.07.2018
		(54) TOMOGRAPHIC IMAGE IMAGING DEVICE
		(73) Ogawa, Hiroshi
		(72) Ogawa, Hiroshi
		(31) PCT/JP2017/026091
		(32) 19.07.2017
		(33) World Intellectual Property Office (WIPO)

- (51) G01N 21/47  
B07C 5/12  
B07C 5/34  
G01N 21/59  
G01N 21/85
- (11) EP2348304  
(21) EP11000573.3  
(47) 13.09.2023  
(22) 25.01.2011  
(54) Device for detecting and sorting out optical inactive substances  
(73) Krieg, Gunther, Prof.Dr.Ing.  
(72) Bohleber, Jürgen  
Fey, Dirk  
(31) 102010005768  
(32) 25.01.2010  
(33) Germany
- 
- (51) G01N 21/64  
G01N 33/42  
(11) EP3311141  
(21) EP16740932.5  
(47) 13.09.2023  
(87) AT2016050219  
29.12.2016  
(22) 22.06.2016  
(54) METHOD AND DEVICE FOR DETERMINING A MATERIAL PROPERTY OF A BITUMEN MATERIAL  
(73) Technische Universität Wien  
(72) HOFKO, Bernhard  
HOSPODKA, Markus  
FÜSSL, Josef  
EBERHARDSTEINER, Lukas  
GROTHER, Hinrich  
HANDLE, Florian  
GROSSEGGGER, Daniel  
BLAB, Ronald  
(31) 505222015  
(32) 22.06.2015  
(33) Austria
- 
- (51) G01N 21/65  
G01N 21/03  
(11) EP2985595  
(21) EP14775968.2  
(47) 13.09.2023  
(87) JP2014052926  
02.10.2014  
(22) 07.02.2014  
(54) SURFACE-ENHANCED RAMAN SCATTERING UNIT AND RAMAN SPECTROSCOPIC ANALYSIS METHOD  
(73) Hamamatsu Photonics K.K.  
(72) ITO Masashi  
SHIBAYAMA Katsumi  
OFUJI Kazuto  
OYAMA Hiroki  
MARUYAMA Yoshihiro  
(31) 2013073308  
(32) 29.03.2013  
(33) Japan
- 
- (51) G01N 21/87  
G01N 21/64  
G01N 33/38  
(11) EP3594664  
(21) EP19191189.0  
(47) 13.09.2023  
(22) 30.03.2016
- (54) APPARATUS AND METHOD FOR FLUORESCENCE GRADING OF GEMSTONES  
(73) Gemological Institute Of America Inc.  
(GIA)  
(72) TAKAHASHI, Hiroshi  
(31) 201514673780  
(32) 30.03.2015  
(33) United States of America
- 
- (51) G01N 21/90  
G01M 11/08  
G01L 1/24  
G01N 21/88  
H04N 23/60  
(11) EP3088873  
(21) EP16167459.3  
(47) 13.09.2023  
(22) 28.04.2016  
(54) CONTAINER INSPECTION SYSTEM WITH INDIVIDUAL LIGHT CONTROL  
(73) Emhart Glass S.A.  
(72) DORDONI, Joe  
DIEHR, Richard D.  
(31) 201615130523  
201562272325 P  
201562154508 P  
(32) 15.04.2016  
29.12.2015  
29.04.2015  
(33) United States of America  
United States of America  
United States of America
- 
- (51) G01N 23/2055  
G01R 31/387  
H01M 4/133  
(11) EP4043872  
(21) EP20884143.7  
(47) 13.09.2023  
(87) KR2020015348  
14.05.2021  
(22) 04.11.2020  
(54) QUANTITATIVE ANALYSIS METHOD OF CARBON-BASED HYBRID NEGATIVE ELECTRODE  
(73) LG Energy Solution, Ltd.  
(72) YOON, Hyo-Jung  
KIM, So-Young  
LEE, Eun-Ju  
(31) 20190139764  
(32) 04.11.2019  
(33) Korea (Republic)
- 
- (51) G01N 24/08  
G01R 33/46  
A61B 5/055  
G16B 40/10  
G16B 40/20  
G16B 99/00  
G16B 40/00  
(11) EP3438651  
(21) EP18190951.6  
(47) 13.09.2023  
(22) 05.10.2011  
(54) USES OF MARKER SUBSTANCES  
(73) Numares AG  
(72) HUBER, Fritz  
KIRCHHÖFER, Renate  
PFAHLERT, Volker  
(31) 102010038014
- 39131710 P  
(32) 06.10.2010  
08.10.2010  
(33) Germany  
United States of America
- 
- (51) G01N 27/02  
(11) EP3702768  
(21) EP18871471.1  
(47) 13.09.2023  
(87) JP2018038638  
02.05.2019  
(22) 17.10.2018  
(54) SOIL SENSOR AND SOIL MEASUREMENT METHOD  
(73) National University Corporation Shizuoka University  
(72) FUTAGAWA, Masato  
KAWAHITO, Shoji  
YASUTOMI, Keita  
(31) 2017204337  
(32) 23.10.2017  
(33) Japan
- 
- (51) G01N 27/04  
F16N 29/04  
G01N 33/28  
(11) EP3279650  
(21) EP17183393.2  
(47) 13.09.2023  
(22) 26.07.2017  
(54) SYSTEMS AND METHODS FOR DETECTING CHIPS IN FLUID OF AIRCRAFT ENGINE  
(73) Pratt & Whitney Canada Corp.  
(72) RICCI, Thomas Trevor  
LAM, Simon Sai-Ming  
JARVO, James Robert  
(31) 201662369601 P  
(32) 01.08.2016  
(33) United States of America
- 
- (51) G01N 27/327  
A61B 5/145  
G01N 33/00  
(11) EP4073498  
(21) EP21701818.3  
(47) 13.09.2023  
(87) EP2021052288  
12.08.2021  
(22) 01.02.2021  
(54) METHOD AND SYSTEM FOR CALIBRATING A CHEMICAL NON-SELECTIVE SENSOR  
(73) ELLONA  
(72) ROMANYTSIA, Ivan  
(31) 2001251  
(32) 07.02.2020  
(33) France
- 
- (51) G01N 27/414  
(11) EP3764092  
(21) EP19305930.0  
(47) 13.09.2023  
(22) 11.07.2019  
(54) MULTI-GATE OECT BASED DETECTION DEVICE COMPRISING DEPOLARIZATION ELECTRODE  
(73) Ecole Polytechnique  
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE  
(72) SHIRINSKAYA, Anna

BONNASSIEUX, Yvan	LEMELIN, Marc, E.	(21) EP19179056.7
(51) G01N 27/622	CORMIER, Sylvain, Gilles	(47) 13.09.2023
H01J 49/06	(31) 201862650140 P	(22) 22.03.2011
H05K 1/14	(32) 29.03.2018	(54) A CARTILAGE CELL PROCESSING SYSTEM
(11) EP3803367	(33) United States of America	(73) CartiRegen B.V.
(21) EP19727671.0	(51) G01N 30/82	(72) Hendriks, Jeanine Anna Alphonse
(47) 13.09.2023	G01N 35/00	Riesle, Jens Uwe
(87) EP2019064029	(11) EP3143393	Wilson, Clayton Ellis
12.12.2019	(21) EP15725509.2	van den Doel, Mirella Ageeth
(22) 29.05.2019	(47) 13.09.2023	(51) G01N 33/536
(54) ION TRANSPORT DEVICE, ION MOBILITY SPECTROMETER AND ION FUNNEL	(87) EP2015059793	C12Q 1/6818
(73) Gottfried Wilhelm Leibniz Universität Hannover	19.11.2015	G16B 40/10
(72) ZIMMERMANN, Stefan	(22) 05.05.2015	G16C 20/10
KIRK, Ansgar	(54) CHROMATOGRAPHY LAB SYSTEM	G16C 20/30
BOHNHORST, Alexander	(73) Cytiva Sweden AB	(11) EP3990919
(31) 102018113331	(72) OLOVSSON, Bjorn, Markus	(21) EP20733477.2
(32) 05.06.2018	LACKI, Karol, Maciej	(47) 13.09.2023
(33) Germany	BERG, Mikael, Johan, Helmer, Eugene	(87) EP2020067493
(51) G01N 27/90	(31) 1450561	30.12.2020
(11) EP3376216	(32) 14.05.2014	(22) 23.06.2020
(21) EP16864656.0	(33) Sweden	(54) METHOD AND KIT FOR MEASURING OF ANALYTES IN BI-COMPONENT SYSTEMS AND USES THEREOF
(47) 13.09.2023	(51) G01N 30/96	(73) Actome GmbH
(87) RU2016000752	G01N 30/34	(72) JENEY, Csaba
18.05.2017	(11) EP2937690	KOLTAY, Peter
(22) 07.11.2016	(21) EP15164699.9	(31) 19182157
(54) METHOD FOR EDDY-CURRENT TESTING OF ELECTRICALLY CONDUCTIVE OBJECTS AND DEVICE FOR REALIZING SAID METHOD	(47) 13.09.2023	(32) 25.06.2019
(73) Obschestvo S Ogranichennoy Otvetstvennostiyu "Alfaservis"	(22) 22.04.2015	(33) European Patent Office (EPO)
(72) ROMANOV, Sergey Ivanovich	(54) ELECTROLYTIC DEVICE FOR CONTAMINANT REMOVAL AND METHOD	(51) G01N 33/574
KRANIN, Mihail Anatolievich	(73) Dionex Corporation	A61K 39/395
KRANIN, Dmitrii Mihailovich	(72) Srinivasan, Kannan	A61K 39/00
SEREBRENNIKOV, Andrey Nikolaevich	(31) 201414260095	A61P 35/00
BUDKOV, Aleksey Removich	(32) 23.04.2014	C07K 16/28
(31) 2015148061	(33) United States of America	(11) EP3631454
(32) 10.11.2015	(51) G01N 33/00	(21) EP18735009.5
(33) Russian Federation	(11) EP3299809	(47) 13.09.2023
(51) G01N 27/90	(21) EP16190247.3	(87) US2018035134
E21B 47/08	(47) 13.09.2023	06.12.2018
E21B 19/00	(22) 22.09.2016	(22) 30.05.2018
(11) EP3730934	(54) A SYSTEM AND A METHOD FOR DETECTING CONCENTRATIONS OF CHEMICAL COMPOUNDS IN THE AIR OF AN AIRCRAFT CABIN	(54) TREATMENT OF LAG-3 POSITIVE TUMORS
(21) EP19171228.0	(73) Airbus Operations GmbH	(73) Bristol-Myers Squibb Company
(47) 13.09.2023	(72) Riedel, Christian	(72) NOVOTNY, James Jr.
(22) 25.04.2019	(51) G01N 33/44	LONBERG, Nils
(54) WELLBORE ROD INSPECTION SYSTEM AND METHOD	G01N 23/046	HEDVAT, Cyrus
(73) Nov Downhole Eurasia Limited	(11) EP3591386	CLYNES, Raphael
(72) JANSSEN, Matthias	(21) EP18761563.8	LOCKE, Darren
WORMS, Manfred	(47) 13.09.2023	COGSWELL, John P.
SWIATEK, Slawomir	(87) JP2018007963	JACKSON, Jeffrey
(51) G01N 30/24	07.09.2018	HARBISON, Christopher
G01N 35/10	(22) 02.03.2018	EDWARDS, Robin
(11) EP3775871	(54) NON-DESTRUCTIVE METHOD FOR EVALUATING STRUCTURE OF WATER-ABSORBING RESIN	(31) 201762582178 P
(21) EP19722261.5	(73) Sumitomo Seika Chemicals Co., Ltd.	201762555176 P
(47) 13.09.2023	(72) CHIBA, Mikito	201762513813 P
(87) US2019024665	ONODA, Yuichi	201762512648 P
03.10.2019	(31) 2017038983	(32) 06.11.2017
(22) 28.03.2019	(32) 02.03.2017	07.09.2017
(54) AUTOSAMPLER SEAL PACK FOR REDUCING A CARRYOVER PERCENTAGE	(33) Japan	01.06.2017
(73) Waters Technologies Corporation	(51) G01N 33/50	30.05.2017
(72) BURNETT, Joshua, A.	A61L 27/38	(33) United States of America
	C12M 3/00	United States of America
	(11) EP3557251	United States of America
		United States of America
		(51) G01N 35/00
		B60R 13/10
		G01N 35/04

A61J 1/20	(11) EP3807652	(31) 1951382
A61J 1/12	(21) EP19734596.0	(32) 03.12.2019
(11) EP2209007	(47) 13.09.2023	(33) Sweden
(21) EP10380004.1	(87) US2019036670	(51) G01R 15/20
(47) 13.09.2023	26.12.2019	H01F 3/14
(22) 13.01.2010	(22) 12.06.2019	(11) EP3853621
(54) Method for performing automatic taking of samples of liquid from collection containers	(54) WHEEL ASSEMBLY WITH SENSOR FOR MEASURING WHEEL MOVEMENT	(21) EP19780170.7
(73) Grifols, S.A.	(73) Crown Equipment Corporation	(47) 13.09.2023
(72) Lopez Alvarez, Diego	(72) STEINBRUNNER, Cole, T.	(87) EP2019075184
Roura Adell, Sergi	MEIRING, Donald, T.	26.03.2020
Rodriguez Garcia, Francisco	ROSE, Nicholas, R.	(22) 19.09.2019
Causi Casamor, Oriol	HINDERS, John, H.	(54) MOULDED PART FOR HOLDING A C-SHAPED MAGNETIC FIELD CONCENTRATION ELEMENT, MAGNETIC FIELD CONCENTRATION DEVICE, AND CONVERTER
Wada, Shinji	(31) 201862686196 P	(73) Valeo eAutomotive Germany GmbH
(31) 200900138	(32) 18.06.2018	(72) PFEIFFER, Kay
(32) 19.01.2009	(33) United States of America	(31) 102018123204
(33) Spain	(51) G01P 3/489	(32) 20.09.2018
(51) G01N 35/00	H02M 7/48	(33) Germany
G01N 35/10	H02P 23/16	(51) G01R 19/00
G01N 35/02	(11) EP3696554	G01R 15/06
(11) EP3584581	(21) EP18866093.0	G01R 15/09
(21) EP19180109.1	(47) 13.09.2023	G01R 22/02
(47) 13.09.2023	(87) JP2018022567	G01R 22/06
(22) 13.06.2019	18.04.2019	G01R 21/06
(54) AUTOMATIC ANALYZER AND AUTOMATIC ANALYSIS METHOD	(22) 13.06.2018	(11) EP3978938
(73) JEOL LTD.	(54) SPEED CALCULATION DEVICE AND POWER CONVERSION DEVICE	(21) EP20813140.9
(72) OGAWA, Toru	(73) Hitachi Industrial Equipment Systems Co., Ltd.	(47) 13.09.2023
(31) 2018115734	(72) WATANABE, Hiroshi	(87) JP2020021380
(32) 19.06.2018	SASAKI, Masataka	03.12.2020
(33) Japan	HIRAGA, Masahiro	(22) 29.05.2020
(51) G01N 35/04	ARAO, Yusuke	(54) POWER MEASUREMENT DEVICE AND POWER MEASUREMENT METHOD
B01L 9/00	NAKAMURA, Atsuhiko	(73) Daikin Industries, Ltd.
G01N 35/02	TOMITA, Hiroyuki	National Institute Of Advanced Industrial Science and Technology
G01N 35/00	HOTTA, Kazushige	(72) MIYAKE, Yuka
G01N 1/31	ONUMA, Yusaku	DOHMAE, Hiroshi
G01N 21/64	(31) 2017196591	SUZUKI, Akio
(11) EP3625573	(32) 10.10.2017	FUJIMOTO, Jun
(21) EP18882780.2	(33) Japan	(31) 2019101927
(47) 13.09.2023	(51) G01P 13/00	(32) 31.05.2019
(87) US2018063464	G01P 5/04	(33) Japan
06.06.2019	G01P 5/02	(51) G01R 19/165
(22) 30.11.2018	(11) EP3623819	G01R 31/00
(54) SLIDE RACK CLAMP APPARATUS	(21) EP18206724.9	G01R 17/02
(73) Leica Biosystems Imaging, Inc.	(47) 13.09.2023	G01R 19/00
(72) NEWBERG, Nicholas	(22) 16.11.2018	(11) EP4019985
(31) 201762593138 P	(54) APPARATUS FOR SENSING A MOVEMENT OF AN OBJECT RELATIVE TO A FLUID	(21) EP20855013.7
(32) 30.11.2017	(73) RIEDEL Communications International GmbH	(47) 13.09.2023
(33) United States of America	(72) Borgonovo dos Santos, Marcio	(87) CN2020084508
(51) G01P 3/48	(31) 102018122581	25.02.2021
H02P 7/00	(32) 14.09.2018	(22) 13.04.2020
H02P 6/00	(33) Germany	(54) DETECTION CIRCUIT FOR INSTANTANEOUS VOLTAGE DROP AND VEHICLE-MOUNTED DIAGNOSTIC SYSTEM
(11) EP3953715	(51) G01R 15/20	(73) ZTE Corporation
(21) EP20713567.4	B61L 1/20	(72) YANG, Qian
(47) 13.09.2023	B61L 27/00	LI, Jian
(87) EP2020057730	(11) EP3832321	ZHANG, Jianhua
15.10.2020	(21) EP20210675.3	SHI, Jijie
(22) 20.03.2020	(47) 13.09.2023	(31) 201910777986
(54) METHOD FOR DETERMINING A SPEED OF AN ELECTRONICALLY COMMUTATED ELECTRIC MOTOR	(22) 30.11.2020	(32) 22.08.2019
(73) AUDI AG	(54) REMOTE SENSOR ARRANGEMENT	(33) China
(72) BARTH, Karsten	(73) ALSTOM Holdings	(51) G01R 19/257
(31) 102019205312	(72) MOGREN, Lars-Ove	
(32) 12.04.2019	FREDHOLM, Magnus	
(33) Germany	KLINGHULT, Gunnar	
(51) G01P 3/487		

- G05F 3/30  
H03M 1/46  
H03M 1/14  
(11) EP3531559  
(21) EP19157394.8  
(47) 13.09.2023  
(22) 15.02.2019  
(54) CURRENT DETECTION CIRCUIT, SEMICONDUCTOR DEVICE AND SEMICONDUCTOR SYSTEM  
(73) Renesas Electronics Corporation  
(72) Kimura, Keisuke  
(31) 2018031904  
(32) 26.02.2018  
(33) Japan
- 
- (51) G01R 23/20  
H04L 1/00  
H04L 27/26  
(11) EP3712626  
(21) EP19163779.2  
(47) 13.09.2023  
(22) 19.03.2019  
(54) HIGH-RATE DFT-BASED DATA MANIPULATOR AND DATA MANIPULATION METHOD FOR HIGH PERFORMANCE AND ROBUST SIGNAL PROCESSING  
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.  
(72) VAN DER MERWE, Johannes Rossouw RÜGAMER, Alexander  
GARZIA, Fabio
- 
- (51) G01R 27/26  
G06F 3/041  
G06F 3/044  
H03K 17/955  
G01V 3/08  
H03F 3/45  
(11) EP4089424  
(21) EP22181434.6  
(47) 13.09.2023  
(22) 15.11.2017  
(54) CAPACITANCE DETECTION DEVICE AND INPUT DEVICE  
(73) Alps Alpine Co., Ltd.  
(72) Sasai, Kiyoshi  
Fujiyoshi, Tatsumi  
Sagawai, Shinichi  
(31) 2016247475  
(32) 21.12.2016  
(33) Japan
- 
- (51) G01R 29/08  
(11) EP4001931  
(21) EP21208759.7  
(47) 13.09.2023  
(22) 17.11.2021  
(54) ELECTROMAGNETIC ENVIRONMENT ANALYSIS SYSTEM, ELECTROMAGNETIC ENVIRONMENT ANALYSIS METHOD, AND PROGRAM  
(73) TDK Corporation  
(72) SATO, Shunya  
HAYASHI, Tatsuya  
(31) 2020191889  
(32) 18.11.2020  
(33) Japan
- 
- (51) G01R 29/08  
(11) EP3688475  
(21) EP18770061.2  
(47) 13.09.2023  
(87) EP2018076028  
04.04.2019  
(22) 25.09.2018  
(54) SENSITIVE COMPONENT FOR DEVICE FOR MEASURING ELECTROMAGNETIC FIELD BY THERMOFLUORESCENCE, CORRESPONDING MEASUREMENT AND MANUFACTURING METHODS  
(73) Office National d'Etudes et de Recherches Aérospatiales  
(72) BOBO, Jean-François  
CARREY, Julian  
FAURE, Stéphane  
ISAAC, François  
PROST, Daniel  
(31) 1758907  
(32) 26.09.2017  
(33) France
- 
- (51) G01R 29/12  
(11) EP3577472  
(21) EP18794631.4  
(47) 13.09.2023  
(87) US2018016852  
08.11.2018  
(22) 05.02.2018  
(54) APPARATUS AND METHOD FOR DETECTION OF HAZARDOUSLY ENERGIZED OBJECTS  
(73) Osmose Utilities Services, Inc.  
(72) KALOKITIS, David  
(31) 201762455200 P  
(32) 06.02.2017  
(33) United States of America
- 
- (51) G01R 29/18  
H02J 3/26  
(11) EP2786161  
(21) EP12795384.2  
(47) 13.09.2023  
(87) EP2012073154  
06.06.2013  
(22) 21.11.2012  
(54) SYSTEM OF NETWORKED DOMESTIC APPLIANCES HAVING A JOINT TIME BASE AND IDENTIFICATION DEVICE OF A RESPECTIVE PHASE OF THE BUILDING INSTALLATION, AND METHOD FOR OPERATING SUCH A SYSTEM  
(73) BSH Hausgeräte GmbH  
(72) GAUGLER, Johannes  
KOLBE, Andreas  
LEITL-NOBEL, Martin  
RANCK, Sharon  
SIPPEL, Matthias  
(31) 102011087280  
(32) 29.11.2011  
(33) Germany
- 
- (51) G01R 31/16  
G01R 31/12  
(11) EP4137828  
(21) EP22182995.5  
(47) 13.09.2023  
(22) 05.07.2022  
(54) APPARATUS AND METHOD FOR TESTING INSULATED HIGH VOLTAGE DEVICES  
(73) Aptiv Technologies Limited  
(72) HERNANDEZ GOMEZ JR., Pablo Andrei  
(31) 202117402770  
(32) 16.08.2021  
(33) United States of America
- 
- (51) G01R 31/3185  
(11) EP4043894  
(21) EP22153216.1  
(47) 13.09.2023  
(22) 25.01.2022  
(54) SCAN CHAIN CIRCUIT AND CORRESPONDING METHOD  
(73) STMicroelectronics S.r.l.  
(72) CASARSA, Marco  
(31) 202100003536  
(32) 16.02.2021  
(33) Italy
- 
- (51) G01R 31/3185  
(11) EP3252488  
(21) EP17173382.7  
(47) 13.09.2023  
(22) 30.05.2017  
(54) SEMICONDUCTOR DEVICE, ELECTRONIC CONTROL SYSTEM AND METHOD FOR EVALUATING ELECTRONIC CONTROL SYSTEM  
(73) Renesas Electronics Corporation  
(72) MAEDA, Yoichi  
MATSUSHIMA, Jun  
(31) 2016107451  
(32) 30.05.2016  
(33) Japan
- 
- (51) G01R 31/34  
(11) EP3761047  
(21) EP19768647.0  
(47) 13.09.2023  
(87) JP2019008577  
19.09.2019  
(22) 05.03.2019  
(54) LOAD TESTING DEVICE  
(73) Tatsumi Ryoki Co., Ltd  
(72) KONDO Toyoshi  
HAMANO Nobuhide  
(31) PCT/JP2018/030020  
PCT/JP2018/009647  
(32) 10.08.2018  
13.03.2018  
(33) World Intellectual Property Office (WIPO)  
World Intellectual Property Office (WIPO)
- 
- (51) G01R 31/36  
G01R 31/367  
H02J 7/00  
G01R 31/387  
G01R 31/371  
(11) EP3715888  
(21) EP18878076.1  
(47) 13.09.2023  
(87) CN2018116128  
23.05.2019  
(22) 19.11.2018  
(54) METHOD, DEVICE AND SYSTEM FOR CALCULATING SOC OF BATTERY ON BASIS OF CHARGING STATUS OF CHARGING SIDE  
(73) NIO (Anhui) Holding Co., Ltd.

<p>(72) CHEN, Jiong HAO, Tianlei DAI, Chensong (31) 201711154222 (32) 20.11.2017 (33) China <hr/>(51) G01R 31/36 H01M 10/48 H01M 10/44 G01R 31/388 G01R 31/396 G01R 31/392 G01R 31/3842 G01R 31/387 (11) EP4152022 (21) EP21908088.4 (47) 13.09.2023 (87) CN2021107850 26.01.2023 (22) 22.07.2021 (54) METHOD FOR DETERMINING FULL- CHARGE CAPACITY OF BATTERY PACK, METHOD FOR DETERMINING STATE OF HEALTH OF BATTERY PACK, SYSTEM, AND APPARATUS (73) Contemporary AmpereX Technology Co., Limited (72) Du, Mingshu Gao, Shuai Sun, Shuting <hr/>(51) G01R 31/385 G01R 31/389 G01R 31/392 (11) EP3995844 (21) EP21206309.3 (47) 13.09.2023 (22) 03.11.2021 (54) BATTERY DEFECT SCREENING DEVICE AND METHOD (73) Samsung SDI Co., Ltd. (72) MOON, Se Hwan GO, Joo Young KWON, Tae Ho KIM, Jae Kyung KIM, Hyung Sik SHIN, Jae Seung OH, Jeong Won YOON, Man Sang LEE, Hyung Chun JIN, Kyong Min (31) 20210018303 20200147038 (32) 09.02.2021 05.11.2020 (33) Korea (Republic) Korea (Republic) <hr/>(51) G01R 33/50 A61B 5/055 A61B 5/00 G01R 33/561 G01R 33/54 (11) EP3197353 (21) EP15844590.8 (47) 13.09.2023 (87) CA2015050951 31.03.2016 (22) 24.09.2015</p>	<p>(54) METHOD FOR T1 MAPPING WITH INCOMPLETE TISSUE MAGNETIZATION RECOVERY (73) University Health Network (72) SUSSMAN, Marshall Stephen WINTERSPERGER, Bernd Juergen FOK, Kai-Ho YANG, Issac Yiqun (31) 201462085701 P 201462055708 P (32) 01.12.2014 26.09.2014 (33) United States of America United States of America <hr/>(51) G01R 33/561 G01R 33/54 G01R 33/56 (11) EP3256870 (21) EP16749545.6 (47) 13.09.2023 (87) SG2016050064 18.08.2016 (22) 10.02.2016 (54) METHOD FOR CONSTRUCTING IMAGE FROM MRI DATA (73) Voxelgrids Innovations Private Limited (72) ARUNACHALAM, Arjun (31) 10201501018R (32) 10.02.2015 (33) Singapore <hr/>(51) G01S 1/72 G01S 1/76 G01S 1/78 G01S 5/18 (11) EP3759508 (21) EP19714243.3 (47) 13.09.2023 (87) IB2019051626 06.09.2019 (22) 28.02.2019 (54) ACOUSTIC POSITIONING TRANSMITTER AND RECEIVER SYSTEM AND METHOD (73) Sonitor Technologies AS (72) BOOIJ, Wilfred Edwin WELLE, Knut TEN VELDHIJS, Thys ENGELHARDTSEN, Fritjof Boger (31) 201862637518 P (32) 02.03.2018 (33) United States of America <hr/>(51) G01S 5/02 G01W 1/16 G01S 5/14 G01S 5/16 (11) EP3619546 (21) EP18726285.2 (47) 13.09.2023 (87) US2018030530 08.11.2018 (22) 01.05.2018 (54) SYSTEM AND METHOD FOR SATELLITE OPTICAL GROUND RADIO HYBRID LIGHTNING LOCATION (73) Earth Networks, Inc. (72) STOCK, Michael HECKMAN, Stan (31) 201762500158 P</p>	<p>(32) 02.05.2017 (33) United States of America <hr/>(51) G01S 5/10 G01S 5/14 G01S 5/02 H04W 64/00 H04W 24/10 (11) EP3909324 (21) EP20700134.8 (47) 13.09.2023 (87) EP2020050543 16.07.2020 (22) 10.01.2020 (54) METHODS AND APPARATUS FOR RTT MEASUREMENT PROCEDURE IN A TELECOMMUNICATIONS NETWORK (73) Koninklijke Philips N.V. (72) ALAWIEH, Mohammad FRANKE, Norbert HADASCHIK, Niels EBERLEIN, Ernst (31) 19151110 (32) 10.01.2019 (33) European Patent Office (EPO) <hr/>(51) G01S 7/34 H03G 3/30 (11) EP2980601 (21) EP15178725.6 (47) 13.09.2023 (22) 28.07.2015 (54) METHOD OF SECURE RF RANGING UNDER STRONG MULTIPATH REFLECTIONS (73) NXP B.V. (72) Leong, Frank Koppelaar, Arie Drude, Stefan Hekstra, Andries (31) 201414446612 (32) 30.07.2014 (33) United States of America <hr/>(51) G01S 7/35 G01S 13/34 G01S 13/42 G01S 13/92 (11) EP3482222 (21) EP17860505.1 (47) 13.09.2023 (87) US2017041366 19.04.2018 (22) 10.07.2017 (54) METHODS AND APPARATUS FOR VELOCITY DETECTION IN MIMO RADAR INCLUDING VELOCITY AMBIGUITY RESOLUTION (73) Texas Instruments Incorporated (72) RAO, Sandeep SUBBURAJ, Karthik WANG, Dan AHMAD, Adeel (31) 201641023530 201615371754 (32) 09.07.2016 07.12.2016 (33) India United States of America <hr/>(51) G01S 13/00 G01S 11/06</p>
---	---	---



G01V 8/00	(54) DYNAMIC STRUCTURED LIGHT FOR DEPTH SENSING SYSTEMS	KISHIWADA, Jun
G01S 13/76	(73) Facebook Technologies, LLC.	YOKOTA, Soichiro
G01S 13/42	(72) HALL, Michael	NAKAMURA, Tadashi
G01S 13/88	LIU, Xinqiao	AMANO, Seiya
(11) EP3206044	ZHU, Zhaoming	MATSUURA, Kazuma
(21) EP17155495.9	CHHABRIA, Rajesh, Lachhmandas	(31) 2018120207
(47) 13.09.2023	TANG, Huixuan	(32) 25.06.2018
(22) 09.02.2017	SU, Shuochen	(33) Japan
(54) DEVICE FOR DETECTING AN OBJECT AND CORRESPONDING METHOD	GAO, Zihe	(51) G01S 19/05
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	(31) 201916415202	G01S 19/27
(72) SCHÜHLER, Mario	201862674430 P	G01S 19/21
WEISGERBER, Lars	(32) 17.05.2019	(11) EP3646061
ARENDT, Johannes	21.05.2018	(21) EP18734531.9
WANSCH, Rainer	(33) United States of America	(47) 13.09.2023
MILOSIU, Heinrich	United States of America	(87) EP2018067018
OEHLER, Frank	(51) G01S 17/10	03.01.2019
(31) 102016213241	G01S 17/14	(22) 26.06.2018
102016202201	G01S 7/4861	(54) SUPPORTING AN EXTENDED USE OF ASSISTANCE DATA FOR GALILEO
(32) 20.07.2016	G01S 7/4863	(73) HERE Global B.V.
12.02.2016	G01S 7/4865	(72) SYRJÄRINNE, Jari Tapani
(33) Germany	G01S 7/497	(31) 201715634000
Germany	(11) EP3521856	(32) 27.06.2017
(51) G01S 13/32	(21) EP18154340.6	(33) United States of America
G01S 13/42	(47) 13.09.2023	(51) G01S 19/42
G01S 13/58	(22) 31.01.2018	G01S 19/22
G01S 13/86	(54) TIME-OF-FLIGHT ARRANGEMENT AND METHOD FOR A TIME-OF-FLIGHT MEASUREMENT	G01S 19/28
G01S 13/931	(73) ams AG	(11) EP3729138
H04W 4/46	(72) Kappel, Robert	(21) EP18825926.1
G01S 13/82	Mautner, Christian	(47) 13.09.2023
(11) EP3690477	(51) G01S 17/89	(87) EP2018084496
(21) EP20153076.3	G01S 7/481	27.06.2019
(47) 13.09.2023	G01S 17/894	(22) 12.12.2018
(22) 22.01.2020	H01L 27/146	(54) METHOD FOR THE SATELLITE-SUPPORTED DETERMINATION OF A POSITION OF A VEHICLE
(54) METHOD AND DEVICE FOR INTER-VEHICLE COMMUNICATION VIA RADAR SYSTEM	(11) EP3955026	(73) Robert Bosch GmbH
(73) StradVision, Inc.	(21) EP21200523.5	(72) EWERT, Marlon Ramon
(72) KIM, Kye-Hyeon	(47) 13.09.2023	(31) 102017223200
KIM, Yongjoong	(22) 13.12.2017	(32) 19.12.2017
KIM, Hak-Kyoung	(54) READOUT VOLTAGE UNCERTAINTY COMPENSATION IN TIME-OF-FLIGHT IMAGING PIXELS	(33) Germany
NAM, Woonhyun	(73) Microsoft Technology Licensing, LLC	(51) G01S 19/44
BOO, SukHoon	(72) BAMJI, Cyrus Soli	(11) EP3260886
SUNG, Myungchul	AKKAYA, Onur Can	(21) EP16752075.8
SHIN, Dongsoo	ELKHATIB, Tamer	(47) 13.09.2023
YEO, Donghun	MEHTA, Swati	(87) JP2016000364
RYU, Wooju	NAGARAJA, Satyadev H.	25.08.2016
LEE, Myeong-Chun	RAJASEKARAN, Vijay	(22) 26.01.2016
LEE, Hyungsoo	(31) 201615385198	(54) POSITIONING SYSTEM, POSITIONING METHOD, AND POSITIONING STATION
JANG, Taewoong	(32) 20.12.2016	(73) Panasonic Intellectual Property Management Co., Ltd.
JEONG, Kyungjoong	(33) United States of America	(72) SHIBATA, Jun
JE, Hongmo	(51) G01S 17/89	OKADA, Toru
CHO, Hojin	G01S 17/42	TAKAHASHI, Katsunao
(31) 201916731953	G01S 17/46	SAKAIBARA, Kunihiko
201962799193 P	G01S 17/48	(31) 2015029138
(32) 31.12.2019	G01S 7/486	(32) 18.02.2015
31.01.2019	(11) EP3588141	(33) Japan
(33) United States of America	(21) EP19177736.6	(51) G01T 1/20
United States of America	(47) 13.09.2023	(11) EP3358375
(51) G01S 17/08	(22) 31.05.2019	(21) EP16850857.0
(11) EP3797316	(54) DISTANCE-MEASURING APPARATUS, MOBILE OBJECT, DISTANCE-MEASURING METHOD, AND DISTANCE-MEASURING SYSTEM	(47) 13.09.2023
(21) EP19749862.9	(73) Ricoh Company, Ltd.	(87) JP2016072441
(47) 13.09.2023	(72) SEKIGUCHI, Hiroyoshi	06.04.2017
(87) US2019033129		(22) 29.07.2016
28.11.2019		
(22) 20.05.2019		

(54) RADIOGRAPHIC IMAGE ACQUISITION SYSTEM AND RADIOGRAPHIC IMAGE ACQUISITION METHOD	201862742892 P 201862680982 P PCT/US2019/028601	(73) Ustav Pristrojove Techniky AV CR, V.V.I.
(73) Hamamatsu Photonics K.K.	PCT/US2018/064449	(72) HORACEK, Miroslav KOLARIK, Vladimir
(72) SUGIYAMA Mototsugu	PCT/US2018/048780	(31) 20160479
ONISHI Tatsuya	(32) 07.05.2019	(32) 08.08.2016
SUYAMA Toshiyasu	(32) 08.10.2018	(33) Czech Republic
(31) 2015194643	05.06.2018	(51) G02B 5/18
(32) 30.09.2015	23.04.2019	G02B 27/42
(33) Japan	07.12.2018	B82Y 20/00
(51) G01V 1/22	30.08.2018	(11) EP3765873
G01V 1/24	(33) United States of America	(21) EP19708329.8
G01V 1/26	United States of America	(47) 13.09.2023
(11) EP3722838	United States of America	(87) EP2019055679
(21) EP19180063.0	World Intellectual Property Office (WIPO)	19.09.2019
(47) 13.09.2023	World Intellectual Property Office (WIPO)	(22) 07.03.2019
(22) 13.06.2019	World Intellectual Property Office (WIPO)	(54) DIFFRACTION GRATING COMPRISING DOUBLE-MATERIALS STRUCTURES
(54) DEVICE AND METHOD FOR UNINTERRUPTED RECORDING OF MULTI-CHANNEL SEISMIC DATA	(51) G01V 8/14 G01V 8/22	(73) InterDigital CE Patent Holdings
(73) First Institute of Oceanography, Ministry of Natural Resources	(11) EP4103979	(72) BORISKIN, Artem DAMGHANIAN, Mitra SHRAMKOVA, Oksana
(72) PEI, Yanliang	(21) EP21703350.5	DRAZIC, Valter
LIU, Baohua	(47) 13.09.2023	BLONDE, Laurent
LI, Xishuang	(87) AT2021060018	(31) 18305263
KAN, Guangming	19.08.2021	(32) 13.03.2018
LIU, Chenguang	(22) 20.01.2021	(33) European Patent Office (EPO)
LIAN, Yanhong	(54) LIGHT BARRIER SYSTEM, COMPRISING AT LEAST TWO REFLECTION LIGHT BARRIER DEVICES	(51) G02B 5/30 G02F 1/1335
LV, Bin	(73) Knapp AG	(11) EP3505982
(31) 201910287687	(72) GÜTL, Bernhard	(21) EP16914698.2
(32) 11.04.2019	PENDL, Marc	(47) 13.09.2023
(33) China	MATHI, Franz	(87) CN2016099051
(51) G01V 3/08	(31) 501082020	08.03.2018
G01V 3/165	(32) 12.02.2020	(22) 14.09.2016
G01V 15/00	(33) Austria	(54) DISPLAY PANEL
(11) EP3475736	(51) G02B 5/02	(73) Wuhan China Star Optoelectronics Technology Co., Ltd.
(21) EP17735227.5	G02B 19/00	(72) CUI, Hongqing
(47) 13.09.2023	G02F 1/1335	ZHA, Guowei
(87) IB2017053432	H01L 33/58	(31) 201610755058
28.12.2017	G02F 1/13357	(32) 29.08.2016
(22) 09.06.2017	(11) EP3805851	(33) China
(54) MAGNETO-MECHANICAL MARKER WITH ENHANCED FREQUENCY STABILITY AND SIGNAL STRENGTH	(21) EP19833755.2	(51) G02B 6/02 G01J 3/18 G01D 5/353
(73) 3M Innovative Properties Company	(47) 13.09.2023	(11) EP3879316
(72) DOANY, Ziyad H.	(87) KR2019007874	(21) EP21172451.3
(31) 201662353889 P	16.01.2020	(47) 13.09.2023
(32) 23.06.2016	(22) 28.06.2019	(22) 20.02.2018
(33) United States of America	(54) DIFFUSION LENS AND DISPLAY DEVICE HAVING SAME	(54) SPECTROMETER SYSTEM AND METHOD FOR PRODUCING A SPECTROMETER SYSTEM
(51) G01V 8/00	(73) Samsung Electronics Co., Ltd.	(73) FISENS GMBH
G06F 3/01	(72) LEE, Seungjae	(72) Waltermann, Christian
G06F 3/03	KWON, Yonghun	(31) 102017202760
G06F 3/0354	PARK, Chunsoon	(32) 21.02.2017
G06F 3/038	LEE, Keunbum	(33) Germany
G06V 20/64	JUN, Sungho	(51) G02B 6/02 G02B 6/036 C03B 37/018 C03B 37/027
G06V 40/20	(31) 20180081859	(11) EP3715923
H04W 4/80	(32) 13.07.2018	(21) EP18918992.1
(11) EP3839580	(33) Korea (Republic)	(47) 13.09.2023
(21) EP21155840.8	(51) G02B 5/18 B42D 25/328	(87) CN2018102809
(47) 13.09.2023	(11) EP3497491	21.11.2019
(22) 05.06.2019	(21) EP17772297.2	(22) 29.08.2018
(54) CONFIDENCE-BASED APPLICATION-SPECIFIC USER INTERACTIONS	(47) 13.09.2023	
(73) Google LLC	(87) CZ2017050034	
(72) UDALL, Ashton	15.02.2018	
FELCH, Andrew	(22) 03.08.2017	
TOBIN, James	(54) METHOD OF PREPARING AN OPTICALLY VARIABLE IMAGE DEVICE	
(31) 201962844677 P		

(54) SINGLE-MODE OPTICAL FIBER WITH ULTRALOW LOSS AND LARGE EFFECTIVE AREA AND MANUFACTURING METHOD THEREFOR	15.06.2018 (33) Germany Germany	(87) JP2017032471 29.03.2018 (22) 08.09.2017
(73) FIBERHOME TELECOMMUNICATION TECHNOLOGIES CO., LTD.	(51) G02B 6/124 G01B 11/25 G06F 3/01	(54) OPTICAL FIBER UNIT AND OPTICAL FIBER CABLE
(72) YU, Huang ZHAO, Zisen LUO, Cheng ZHANG, Yichi	(11) EP3819688 (21) EP19836992.8 (47) 13.09.2023 (87) CN2019094783 23.01.2020	(73) Fujikura Ltd. (72) KANEKO, Soichiro KAJI, Tomoaki ISAJI, Mizuki TOMIKAWA, Kouji OSATO, Ken
(31) 201810453514 (32) 14.05.2018 (33) China	(22) 05.07.2019 (54) WAVEGUIDE AND LIGHT PROJECTING SYSTEM	(31) 2016183491 (32) 20.09.2016 (33) Japan
(51) G02B 6/08 (11) EP3748615 (21) EP18903458.0 (47) 13.09.2023 (87) JP2018046297 08.08.2019	(73) Shenzhen Guangjian Technology Co., Ltd. (72) LYU, Fanglu (31) 201816036801 (32) 16.07.2018 (33) United States of America	(51) G02B 6/44 (11) EP3598190 (21) EP18766976.7 (47) 13.09.2023 (87) JP2018009474 20.09.2018
(22) 17.12.2018 (54) DISPLAY DEVICE AND OPTICAL DEVICE	(51) G02B 6/38 G02B 6/44	(22) 12.03.2018 (54) OPTICAL FIBER CABLE AND OPTICAL FIBER CABLE MANUFACTURING METHOD
(73) Sony Group Corporation (72) NIWA, Hayato YAMAMOTO, Takeshi ARAKI, Soya URUSHIYAMA, Yasuhisa	(11) EP3663820 (21) EP19212087.1 (47) 13.09.2023 (22) 28.11.2019 (54) FIBER OPTIC CONNECTOR ASSEMBLY	(73) Furukawa Electric Co., Ltd. (72) HOSHINO, Yutaka (31) 2017047234 (32) 13.03.2017 (33) Japan
(31) 2018015876 (32) 31.01.2018 (33) Japan	(73) Ortronics, Inc. (72) GRANDIDGE, Ryan J. (31) 201816213063 (32) 07.12.2018 (33) United States of America	(31) 2016183491 (32) 20.09.2016 (33) Japan
(51) G02B 6/10 F21K 9/61 F21V 8/00 F21V 13/02 F21Y 103/33	(51) G02B 6/42 G02B 6/293 H04Q 11/00 H04J 14/02	(51) G02B 6/44 F16B 5/06 F16B 21/09 G02B 6/38
(11) EP3853645 (21) EP19863343.0 (47) 13.09.2023 (87) CA2019051336 26.03.2020	(11) EP3422614 (21) EP17178093.5 (47) 13.09.2023 (22) 27.06.2017 (54) OPTICAL WAVELENGTH DIVISION MULTIPLEXING DEVICE	(11) EP3785057 (21) EP19793744.4 (47) 13.09.2023 (87) US2019028245 31.10.2019
(22) 19.09.2019 (54) LUMINAIRE	(54) OPTICAL WAVELENGTH DIVISION MULTIPLEXING DEVICE	(22) 19.04.2019 (54) MECHANICAL CONNECTION INTERFACE FOR AN OPTICAL TELECOMMUNICATIONS COMPONENT
(73) LMPG Inc. (72) SANTORO, Scott (31) 201862735151 P (32) 23.09.2018 (33) United States of America	(73) HUAWEI TECHNOLOGIES CO., LTD. (72) RAMPULLA, Alberto ZAGO, Paolo	(73) CommScope Technologies LLC (72) CLAESSENS, Bart Mattie ALAERTS, Roger Joseph CARRICO, William Alan VERSLEEGERS, Jozef Christiaan Mathieu BERVOETS, Marc Eugène Willem
(51) G02B 6/10 F21V 8/00 G02B 27/01	(51) G02B 6/44 (11) EP3988981 (21) EP21215426.4 (47) 13.09.2023 (22) 09.05.2018 (54) OPTICAL FIBER CABLE	(31) 201862661437 P (32) 23.04.2018 (33) United States of America
(11) EP3807702 (21) EP19731674.8 (47) 13.09.2023 (87) EP2019065551 19.12.2019	(73) FUJIKURA LTD. (72) SHIMIZU, Shogo NAMAZUE, Akira TAKI, Go OSATO, Ken	(51) G02B 6/44 G02B 6/38
(22) 13.06.2019 (54) APPARATUS FOR GENERATING A VIRTUAL IMAGE WITH INTERFERENCE LIGHT SUPPRESSION	(31) 2018039696 2017109872 (32) 06.03.2018 02.06.2017 (33) Japan Japan	(11) EP3433653 (21) EP17713231.3 (47) 13.09.2023 (87) EP2017056847 28.09.2017 (22) 22.03.2017 (54) MODULE AND ENCLOSURE FOR USE THEREIN
(73) Continental Automotive Technologies GmbH (72) VON SPIEGEL, Wolff POLZ, Mathias	(51) G02B 6/44 (11) EP3518012 (21) EP17852855.0 (47) 13.09.2023	(73) CommScope Connectivity Belgium BVBA (72) CLAESSENS, Bart Mattie BECKERS, Erwin OVERSTEYNS, Jan
(31) 102018211073 102018209619 (32) 05.07.2018		(31) 201662312557 P

201662312224 P	G02B 27/00	G02B 21/34
(32) 24.03.2016	(11) EP3798710	G02B 21/30
23.03.2016	(21) EP20198510.8	G01N 21/03
(33) United States of America	(47) 13.09.2023	G01N 21/17
United States of America	(22) 25.09.2020	(11) EP3791223
(51) G02B 7/04	(54) CASSEGRAIN TYPE TELESCOPE	(21) EP18816212.7
G02B 27/64	WITH SEGMENTED FOCAL PLANE	(47) 13.09.2023
(11) EP3070504	(73) THALES	(87) HU2018050035
(21) EP16159597.0	Universite d'Aix-Marseille	14.11.2019
(47) 13.09.2023	Centre national de la recherche	(22) 16.08.2018
(22) 10.03.2016	scientifique	(54) PORTABLE DEVICE FOR SEMEN
(54) LENS MOVING APPARATUS, CAMERA	(72) HEIN, Grégoire	QUALITY CONTROL
MODULE AND OPTICAL APPLIANCE	FERRARI, Marc	(73) Microfluidlabs Kft.
INCLUDING THE SAME	TETAZ, Nicolas	Ongo Vettech Kft.
(73) LG Innotek Co., Ltd.	JAHN, Wilfried	(72) BÁBEL, Béla Tamás
(72) Park, Sang Ok	HUGOT, Emmanuel	(31) 1800078 U
Min, Sang Jun	(31) 1910625	(32) 10.05.2018
(31) 20150037251	(32) 26.09.2019	(33) Hungary
(32) 18.03.2015	(33) France	(51) G02B 23/12
(33) Korea (Republic)	(51) G02B 21/02	G06T 7/00
(51) G02B 13/00	G02B 21/14	H04N 13/00
G02B 13/06	G02B 21/24	(11) EP3115824
G02B 27/10	G02B 21/34	(21) EP16174118.6
(11) EP3928141	G02B 21/36	(47) 13.09.2023
(21) EP20709750.2	G02B 21/00	(22) 13.06.2016
(47) 13.09.2023	(11) EP3677942	(54) PARALLAX CORRECTION DEVICE
(87) JP2020006404	(21) EP18849946.1	AND METHOD IN BLENDED OPTICAL
27.08.2020	(47) 13.09.2023	SYSTEM FOR USE OVER A RANGE OF
(22) 19.02.2020	(87) JP2018020599	TEMPERATURES
(54) IMAGING OPTICAL SYSTEM AND	07.03.2019	(73) Qioptiq Limited
IMAGING DEVICE	(22) 29.05.2018	(72) BUSTIN, Nicholas
(73) Ricoh Company, Ltd.	(54) OBSERVATION DEVICE,	(31) 201510725
(72) TORIUMI Yuji	OBSERVATION METHOD, AND	(32) 18.06.2015
SATOHI Hiroyuki	OBSERVATION DEVICE CONTROL	(33) United Kingdom
(31) 2019030497	PROGRAM	(51) G02B 26/00
(32) 22.02.2019	(73) FUJIFILM Corporation	A61F 2/16
(33) Japan	(72) SHIRAISHI, Yasushi	G02C 7/08
(51) G02B 13/16	(31) 2017221446	G02B 13/14
G02B 27/18	2017165264	(11) EP3612884
G02B 11/04	(32) 17.11.2017	(21) EP18721705.4
G02B 26/08	30.08.2017	(47) 13.09.2023
G03B 21/20	(33) Japan	(87) EP2018059850
G02B 19/00	Japan	25.10.2018
(11) EP3729183	(51) G02B 21/06	(22) 18.04.2018
(21) EP17935264.6	(11) EP3039475	(54) ELECTROWETTING AND PHOTO
(47) 13.09.2023	(21) EP14765881.9	CURING FOR MANUFACTURING OF
(87) CA2017051531	(47) 13.09.2023	OPHTHALMIC LENSES
27.06.2019	(87) EP2014068139	(73) AMO Groningen B.V.
(22) 18.12.2017	05.03.2015	(72) STATE, Mihai
(54) ILLUMINATION SYSTEM FOR LIGHT	(22) 27.08.2014	BOGAERT, Theophilus
PROJECTION	(54) SYSTEM AND METHOD OF SINGLE	(31) 201762487128 P
(73) Raytheon Canada Ltd.	PLANE ILLUMINATION MICROSCOPY	(32) 19.04.2017
(72) SYVOKIN, Viktor	(73) Imagine Optic	(33) United States of America
(51) G02B 15/14	Centre National de la Recherche	(51) G02B 26/10
(11) EP3828613	Scientifique (C.N.R.S.)	B81B 3/00
(21) EP20205618.0	Université de Bordeaux	G02B 26/08
(47) 13.09.2023	(72) LEVECO, Xavier	(11) EP3657231
(22) 04.11.2020	VIASNOFF, Virgile	(21) EP18836094.5
(54) ZOOM LENS AND IMAGE CAPTURING	SIBARITA, Jean-Baptiste	(47) 13.09.2023
APPARATUS INCLUDING THE SAME	STUDER, Vincent	(87) JP2018023138
(73) CANON KABUSHIKI KAISHA	GALLAND, Rémi	24.01.2019
(72) GYODA, Yuichi	(31) 1358226	(22) 18.06.2018
(31) 2019215441	(32) 28.08.2013	(54) ACTUATOR DEVICE
(32) 28.11.2019	(33) France	(73) Hamamatsu Photonics K.K.
(33) Japan	(51) G02B 21/36	(72) SUZUKI, Daiki
(51) G02B 17/06	G02B 21/00	MORINAGA, Yuki
G02B 23/06	G02B 21/06	TANAKA, Go
	G02B 21/28	(31) 2017142163

(32) 21.07.2017	(11) EP3791226	(33) United States of America
(33) Japan	(21) EP19727536.5	(51) G02C 7/04
(51) G02B 27/01	(47) 13.09.2023	G02F 1/133
(11) EP3807699	(87) US2019029527	G02F 1/29
(21) EP19731669.8	14.11.2019	G02C 7/08
(47) 13.09.2023	(22) 27.04.2019	(11) EP3821292
(87) EP2019065511	(54) VARIABLE ATTENUATION OF AN	(21) EP19745892.0
19.12.2019	ILLUMINATION SOURCE	(47) 13.09.2023
(22) 13.06.2019	(73) Microsoft Technology Licensing, LLC	(87) US2019041050
(54) METHOD FOR CONTROLLING AN	(72) MILLER, Joshua Owen	16.01.2020
OPTICAL FIBER AND APPARATUS	(31) 201815981382	(22) 09.07.2019
FOR GENERATING A VIRTUAL IMAGE	201862668836 P	(54) SWITCHING OF LIQUID CRYSTAL
(73) Continental Automotive Technologies	(32) 16.05.2018	DEVICE
GmbH	09.05.2018	(73) Twenty Twenty Therapeutics LLC
(72) KERN, Thorsten Alexander	(33) United States of America	(72) REZNIKOV, Dmytro
(31) 102018209638	United States of America	LEE, Shungneng
(32) 15.06.2018	(51) G02B 27/01	HADDOCK, Joshua
(33) Germany	G02B 5/08	(31) 201862696231 P
(51) G02B 27/01	H05K 5/03	(32) 10.07.2018
(11) EP3994517	(11) EP3714317	(33) United States of America
(21) EP20749967.4	(21) EP19722349.8	(51) G02C 7/10
(47) 13.09.2023	(47) 13.09.2023	C09K 9/02
(87) IL2020050753	(87) US2019027757	G02B 1/10
07.01.2021	21.11.2019	G02B 5/23
(22) 05.07.2020	(22) 16.04.2019	G02C 13/00
(54) IMAGE WAVEGUIDE WITH	(54) ELECTRONIC DEVICE WITH	B29D 11/00
SYMMETRIC BEAM MULTIPLICATION	INFRARED TRANSPARENT ONE-WAY	(11) EP2416203
(73) Lumus Ltd.	MIRROR	(21) EP10758775.0
(72) RONEN, Eitan	(73) Apple Inc.	(47) 13.09.2023
CHRIKI, Ronen	(72) WILSON, James, R.	(87) JP2010055815
MICHAELS, Daniel	VANDYKE, James, W.	07.10.2010
(31) 201962870699 P	ROGERS, Matthew, S.	(22) 31.03.2010
(32) 04.07.2019	(31) 201916298992	(54) PHOTOCROMIC LENS
(33) United States of America	201862673062 P	MANUFACTURING SYSTEM,
(51) G02B 27/01	(32) 11.03.2019	PHOTOCROMIC LENS
(11) EP3794398	17.05.2018	MANUFACTURING DEVICE,
(21) EP18740133.6	(33) United States of America	PHOTOCROMIC LENS
(47) 13.09.2023	United States of America	MANUFACTURING PROGRAM,
(87) EP2018067823	(51) G02B 30/26	RECORDING MEDIUM HAVING
09.01.2020	G02B 5/18	PHOTOCROMIC LENS
(22) 02.07.2018	F21V 8/00	MANUFACTURING PROGRAM
(54) A RETINAL DISPLAY APPARATUS AND	G02B 27/01	RECORDED THEREUPON,
METHOD	(11) EP3403129	AND PHOTOCROMIC LENS
(73) HUAWEI TECHNOLOGIES CO., LTD.	(21) EP16885358.8	MANUFACTURING METHOD
(72) IONITA, Bogdan, Cihodariu	(47) 13.09.2023	(73) HOYA CORPORATION
BOEV, Atanas	(87) US2016013759	(72) OHTA Hiroshi
SETIAWAN, Panji	20.07.2017	IMIZU Takeshi
NAVARRO FRUCTUOSO, Hector	(22) 16.01.2016	HIROSE Takamitsu
(51) G02B 27/01	(54) MULTIBEAM DIFFRACTION GRATING-	HASHIMOTO Toshikazu
C03C 3/066	BASED HEAD-UP DISPLAY	(31) 2009088048
(11) EP3428710	(73) LEIA Inc.	(32) 31.03.2009
(21) EP18183087.8	(72) FATTAL, David A.	(33) Japan
(47) 13.09.2023	(51) G02C 7/04	(51) G02C 7/12
(22) 12.07.2018	(11) EP4168847	G02B 5/30
(54) LIGHT GUIDE PLATE AND IMAGE	(21) EP21766201.4	G02C 7/10
DISPLAY DEVICE	(47) 13.09.2023	(11) EP3480651
(73) HOYA Corporation	(87) GB2021052202	(21) EP17820352.7
(72) KOGURE, Yasuo	03.03.2022	(47) 13.09.2023
(31) 2018127421	(22) 24.08.2021	(87) JP2017024247
2017136277	(54) DIMPLED CONTACT LENS	04.01.2018
(32) 04.07.2018	(73) CooperVision International Limited	(22) 30.06.2017
12.07.2017	(72) LINN, Matthew S.	(54) SPECTACLE LENS AND SPECTACLES
(33) Japan	SAHA, Sourav	(73) Hoya Lens Thailand Ltd.
Japan	JIANG, Lu	(72) GOTO, Takumi
(51) G02B 27/01	WARREN, Tim	INABA, Tsuyoshi
G02B 3/14	KEIR, Nancy J.	(31) 2016131090
G02B 26/02	(31) 202063071384 P	(32) 30.06.2016
	(32) 28.08.2020	(33) Japan

(51) G02F 1/01 G02B 27/40 B82Y 20/00 G02B 1/00 G02B 27/42	G02F 1/1335 F21V 7/00 G09F 9/00 F21S 2/00 F21V 17/00	(73) Magic Leap, Inc. (72) OH, Chulwoo CHANG, Chieh BHAGAT, Sharad, D. KLUG, Michael, Anthony
(11) EP3063589 (21) EP14857816.4 (47) 13.09.2023 (87) IL2014050932 07.05.2015 (22) 28.10.2014	(11) EP3581997 (21) EP18751074.8 (47) 13.09.2023 (87) JP2018004002 16.08.2018 (22) 06.02.2018	(31) 201662434343 P (32) 14.12.2016 (33) United States of America
(54) SYSTEM AND METHOD FOR CONTROLLING LIGHT	(54) IMAGE DISPLAY DEVICE AND SUPPORT PIN	(31) 201662434343 P (32) 14.12.2016 (33) United States of America
(73) Technology Innovation Momentum Fund (Israel) Limited Partnership	(73) Panasonic Intellectual Property Management Co., Ltd.	(51) G02F 1/1345 (11) EP3887900 (21) EP19874775.0 (47) 13.09.2023 (87) CN2019093073 04.06.2020 (22) 26.06.2019
(72) ELLENBOGEN, Tal EISENBACH, Omri AVAYU, Ori DITCOVSKI, Ran	(72) KUGIMARU, Tadahiro TAKEUCHI, Taizou UMITANI, Takafumi	(54) DISPLAY SUBSTRATE, DISPLAY PANEL, AND DISPLAY APPARATUS (73) BOE TECHNOLOGY GROUP CO., LTD. Beijing BOE Technology Development Co., Ltd.
(31) 201361896190 P (32) 28.10.2013 (33) United States of America	(31) 2017161526 201762456939 P (32) 24.08.2017 09.02.2017 (33) Japan United States of America	(72) MA, Yongda QIAO, Yong XIAN, Jianbo (31) 201821975020 U (32) 28.11.2018 (33) China
(51) G02F 1/13 G02B 6/00 G02F 1/01 H04N 13/30 G02B 5/30 G02B 5/02 G02F 1/29 F21V 8/00 G02F 1/1347 G02F 1/295 G02F 1/365	(33) Japan United States of America (51) G02F 1/1333 H05K 5/00 H05K 9/00 H01L 27/02 C09J 175/00 C09J 175/04 C08K 3/04 H05K 3/32 (11) EP3746844 (21) EP19795993.5 (47) 13.09.2023 (87) KR2019005282 07.11.2019 (22) 02.05.2019 (54) DISPLAY APPARATUS (73) Samsung Electronics Co., Ltd.	(31) 201821975020 U (32) 28.11.2018 (33) China (51) G02F 1/16766 G02F 1/167 G02F 1/1368 G02F 1/1362 H01L 27/12 (11) EP3882693 (21) EP19884995.2 (47) 13.09.2023 (87) JP2019043377 22.05.2020 (22) 06.11.2019 (54) THIN-FILM TRANSISTOR ARRAY AND METHOD FOR MANUFACTURING SAME (73) Toppan Printing Co., Ltd.
(11) EP3707554 (21) EP18872387.8 (47) 13.09.2023 (87) US2018059256 09.05.2019 (22) 05.11.2018	(72) KIM, Kyoung Hwan KIM, Do Wan KIM, Myeong Gil KIM, Min Chul KIM, Boum-Sik YOON, Tae Youn LEE, Sang Min JUNG, Hyun Jun HWANG, Hye Ryung	(72) ISHIZAKI Mamoru (31) 2018212157 (32) 12.11.2018 (33) Japan
(54) PRIVACY DISPLAY APPARATUS	(72) KIM, Kyoung Hwan KIM, Do Wan KIM, Myeong Gil KIM, Min Chul KIM, Boum-Sik YOON, Tae Youn LEE, Sang Min JUNG, Hyun Jun HWANG, Hye Ryung	(31) 201762582030 P (32) 06.11.2017 (33) United States of America
(73) RealD Spark, LLC	(72) KIM, Kyoung Hwan KIM, Do Wan KIM, Myeong Gil KIM, Min Chul KIM, Boum-Sik YOON, Tae Youn LEE, Sang Min JUNG, Hyun Jun HWANG, Hye Ryung	(51) G02F 1/1333 (11) EP4006633 (21) EP20879482.6 (47) 13.09.2023 (87) KR2020005148 29.04.2021 (22) 17.04.2020
(72) WOODGATE, Graham J. HARROLD, Jonathan ROBINSON, Michael G.	(72) KIM, Kyoung Hwan KIM, Do Wan KIM, Myeong Gil KIM, Min Chul KIM, Boum-Sik YOON, Tae Youn LEE, Sang Min JUNG, Hyun Jun HWANG, Hye Ryung	(54) DISPLAY APPARATUS (73) Samsung Electronics Co., Ltd.
(31) 201762582030 P (32) 06.11.2017 (33) United States of America	(72) KANG, Jong Hyun JUNG, Jun Su CHAE, Hyun Joong KIM, Beom Han KIM, Byoung Jung OH, Jun Pil JEONG, Kyo	(51) G03B 19/22 G03B 30/00 G03B 3/10 G03B 5/00 H04N 23/45 H04N 23/54 H04N 23/68 (11) EP3627219 (21) EP18803016.7 (47) 13.09.2023 (87) KR2018005698 22.11.2018 (22) 18.05.2018 (54) CAMERA MODULE (73) LG Innotek Co., Ltd. (72) PARK, Sang Ok (31) 20170062021 (32) 19.05.2017 (33) Korea (Republic)
(51) G02F 1/1333 (11) EP4006633 (21) EP20879482.6 (47) 13.09.2023 (87) KR2020005148 29.04.2021 (22) 17.04.2020	(31) 20180050737 (32) 02.05.2018 (33) Korea (Republic) (51) G02F 1/1334 G02F 1/135 G02B 5/30 G02B 27/01 C09K 19/00 B32B 43/00 G02F 1/1337 (11) EP3555700 (21) EP17880267.4 (47) 13.09.2023 (87) US2017066211 21.06.2018 (22) 13.12.2017	(54) THIN-FILM TRANSISTOR ARRAY AND METHOD FOR MANUFACTURING SAME (73) Toppan Printing Co., Ltd. (72) ISHIZAKI Mamoru (31) 2018212157 (32) 12.11.2018 (33) Japan
(54) PRIVACY DISPLAY APPARATUS	(72) KANG, Jong Hyun JUNG, Jun Su CHAE, Hyun Joong KIM, Beom Han KIM, Byoung Jung OH, Jun Pil JEONG, Kyo	(51) G03B 19/22 G03B 30/00 G03B 3/10 G03B 5/00 H04N 23/45 H04N 23/54 H04N 23/68 (11) EP3627219 (21) EP18803016.7 (47) 13.09.2023 (87) KR2018005698 22.11.2018 (22) 18.05.2018 (54) CAMERA MODULE (73) LG Innotek Co., Ltd. (72) PARK, Sang Ok (31) 20170062021 (32) 19.05.2017 (33) Korea (Republic)
(73) Samsung Electronics Co., Ltd.	(72) KANG, Jong Hyun JUNG, Jun Su CHAE, Hyun Joong KIM, Beom Han KIM, Byoung Jung OH, Jun Pil JEONG, Kyo	(51) G02F 1/1333 (11) EP4006633 (21) EP20879482.6 (47) 13.09.2023 (87) KR2020005148 29.04.2021 (22) 17.04.2020
(72) KANG, Jong Hyun JUNG, Jun Su CHAE, Hyun Joong KIM, Beom Han KIM, Byoung Jung OH, Jun Pil JEONG, Kyo	(72) KANG, Jong Hyun JUNG, Jun Su CHAE, Hyun Joong KIM, Beom Han KIM, Byoung Jung OH, Jun Pil JEONG, Kyo	(51) G02F 1/1333 (11) EP4006633 (21) EP20879482.6 (47) 13.09.2023 (87) KR2020005148 29.04.2021 (22) 17.04.2020
(31) 20190134039 (32) 25.10.2019 (33) Korea (Republic)	(54) PATTERNING OF LIQUID CRYSTALS USING SOFT-IMPRINT REPLICATION OF SURFACE ALIGNMENT PATTERNS	(51) G03F 7/00 G04B 19/12 B81C 99/00 C25D 5/02
(51) G02F 1/1333 G02F 1/13357		

C25D 1/00	OF LAYER-BY-LAYER MATERIAL	(51) G05B 13/02
G04B 13/02	APPLICATION	G06F 9/44
G04B 15/14	(73) dp polar GmbH	H01F 27/08
G04B 19/06	ALTANA AG	H01F 27/33
(11) EP3839624	(72) MATHEA, Hans	(11) EP3380929
(21) EP19217372.2	BOHN, Martin	(21) EP15909083.6
(47) 13.09.2023	(31) 102017001276	(47) 13.09.2023
(22) 18.12.2019	(32) 11.02.2017	(87) CN2015095788
(54) METHOD FOR MANUFACTURING A TIMEPIECE COMPONENT	(33) Germany	01.06.2017
(73) Nivarox-FAR S.A.	(51) G03G 21/10	(22) 27.11.2015
(72) CUSIN, Pierre	(11) EP3255506	(54) METHOD AND SYSTEM FOR CONTROLLING COOLING SYSTEM OF POWER EQUIPMENT
GANDELHMAN, Alex	(21) EP16207120.3	(73) Hitachi Energy Switzerland AG
MUSY, Michel	(47) 13.09.2023	(72) CHEN, Yao
GOLFIER, Clare	(22) 28.12.2016	CHEN, Niya
(51) G03F 7/20	(54) TONER CONTAINER, IMAGE FORMING APPARATUS	YU, Rongrong
G03F 9/00	(73) Kyocera Document Solutions Inc.	
H05K 3/00	(72) MATSUMOTO, Hiromu	(51) G05B 13/04
(11) EP2684096	SUE, Tomohiro	(11) EP3646122
(21) EP12755025.9	(31) 2016114510	(21) EP18736844.4
(47) 13.09.2023	(32) 08.06.2016	(47) 13.09.2023
(87) US2012027842	(33) Japan	(87) EP2018067213
13.09.2012	(51) G03G 21/20	03.01.2019
(22) 06.03.2012	(11) EP3073331	(22) 27.06.2018
(54) TOOL TO WORKPIECE ALIGNMENT METHOD AND SYSTEM	(21) EP16160381.6	(54) METHOD AND DEVICE FOR SETTING AT LEAST ONE PARAMETER OF AN ACTUATOR CONTROL SYSTEM AND ACTUATOR CONTROL SYSTEM
(73) Chime Ball Technology Co., Ltd.	(47) 13.09.2023	(73) Robert Bosch GmbH
(72) DOHSE, Hans	(22) 15.03.2016	Technische Universität Darmstadt
(31) 201113041622	(54) OPTIONAL DEVICE FOR ELECTRICAL MACHINE, AND ELECTRICAL	(72) BISCHOFF, Bastian
(32) 07.03.2011	MACHINE	VINOGRADSKA, Julia
(33) United States of America	(73) Konica Minolta, Inc.	PETERS, Jan
(51) G03F 9/00	(72) Narahashi, Hideki	(31) 102017211209
(11) EP2699967	Asaoka, Shogo	(32) 30.06.2017
(21) EP12722217.2	Karakama, Sho	(33) Germany
(47) 13.09.2023	Tomoda, Yasuaki	(51) G05B 15/02
(87) NL2012050271	Matsui, Naoki	G05B 23/02
26.10.2012	(31) 2015063277	(11) EP4118495
(22) 23.04.2012	(32) 25.03.2015	(21) EP21725038.0
(54) POSITION DETERMINATION IN A LITHOGRAPHY SYSTEM USING A SUBSTRATE HAVING A PARTIALLY REFLECTIVE POSITION MARK	(33) Japan	(47) 13.09.2023
(73) ASML Netherlands B.V.	(51) G04B 19/10	(87) EP2021060414
(72) VERGEER, Niels	G04B 45/00	28.10.2021
DE BOER, Guido	G04B 45/02	(22) 21.04.2021
(31) 201161491862 P	(11) EP3346343	(54) METHOD OF OPERATING A WIND TURBINE
201161478126 P	(21) EP18150338.4	(73) Siemens Gamesa Renewable Energy A/ S
(32) 31.05.2011	(47) 13.09.2023	(72) KHOKHAR, Malik Ali Zaib
22.04.2011	(22) 04.01.2018	VIVES JAUME, Xavier
(33) United States of America	(54) EXTERNAL PART ELEMENT FOR A TIMEPIECE	(31) 20171048
United States of America	(73) Richemont International S.A.	(32) 23.04.2020
(51) G03G 15/16	(72) WEBER, Eric-Jean	(33) European Patent Office (EPO)
G03G 15/22	POSPIESZNY, Sébastien	(51) G05B 15/02
B29C 64/106	BRUTTIN, Gregory	G06N 3/044
B29C 64/205	(31) 222017	G06N 3/08
B29C 64/141	(32) 09.01.2017	G06N 5/022
B33Y 10/00	(33) Switzerland	(11) EP3935452
B33Y 30/00	(51) G04C 3/14	(21) EP20716638.0
(11) EP3580617	H02P 8/02	(47) 13.09.2023
(21) EP18704241.1	(11) EP3779611	(87) US2020021585
(47) 13.09.2023	(21) EP20184256.4	10.09.2020
(87) EP2018053365	(47) 13.09.2023	(22) 06.03.2020
16.08.2018	(22) 06.07.2020	(54) SYSTEMS AND APPROACHES FOR ESTABLISHING RELATIONSHIPS BETWEEN BUILDING AUTOMATION SYSTEM COMPONENTS
(22) 09.02.2018	(54) ELECTROMECHANICAL WATCH	(73) Honeywell International Inc.
(54) METHOD AND DEVICE FOR PRODUCING A THREE-DIMENSIONAL SHAPED OBJECT BY MEANS	(73) ETA SA Manufacture Horlogère Suisse	
	(72) BESUCHET, Romain	
	(31) 19191930	
	(32) 15.08.2019	
	(33) European Patent Office (EPO)	

(72) THAKUR, Kushagra DAMJI, Harshad PATEL, Mehul SHAH, Hetal WISE, Wendy COLEMAN, Benjamin WATSON, Parker (31) 201962815195 P (32) 07.03.2019 (33) United States of America	(11) EP4063978 (21) EP22173726.5 (47) 13.09.2023 (22) 14.01.2019 (54) SYSTEM AND METHOD FOR CONTROLLING A VALVE MANIFOLD (73) Parker-Hannifin Corporation (72) RUDAITIS, Erick W FAILLO, Timothy W RONDREUX, Serge BERDAL, Patrick (31) 201862624156 P (32) 31.01.2018 (33) United States of America	Braun, Scott D. (31) 202117165623 (32) 02.02.2021 (33) United States of America
(51) G05B 17/02 G05B 19/418 (11) EP3049873 (21) EP14795884.7 (47) 13.09.2023 (87) US2014057602 02.04.2015 (22) 26.09.2014 (54) NON-INTRUSIVE SENSOR SYSTEM (73) Rosemount Inc. (72) SCHUMACHER, Mark, Stephen (31) 201314039957 (32) 27.09.2013 (33) United States of America	(51) G05B 19/042 (11) EP3896538 (21) EP21164739.1 (47) 13.09.2023 (22) 24.03.2021 (54) ON-PROCESS MIGRATION OF CONTROLLER(S) TO UTILIZE AN IO POOL (73) Honeywell International Inc. (72) MCLAUGHLIN, Paul Francis FELIX, Joseph Pradeep SCHREDER, James Michael ROSA-BIAN, John URSO, Jason Thomas (31) 202016835732 (32) 31.03.2020 (33) United States of America	(51) G05B 19/4062 G05B 23/02 H02P 29/02 H02P 23/14 (11) EP3861410 (21) EP19812698.9 (47) 13.09.2023 (87) EP2019081240 04.06.2020 (22) 13.11.2019 (54) METHOD AND SYSTEM OF MONITORING THE OPERATION OF AT LEAST ONE DRIVE COMPONENT (73) Siemens Aktiengesellschaft (72) WINTER, Jens (31) 18209532 (32) 30.11.2018 (33) European Patent Office (EPO)
(51) G05B 19/042 (11) EP3896538 (21) EP21164739.1 (47) 13.09.2023 (22) 24.03.2021 (54) ON-PROCESS MIGRATION OF CONTROLLER(S) TO UTILIZE AN IO POOL (73) Honeywell International Inc. (72) MCLAUGHLIN, Paul Francis FELIX, Joseph Pradeep SCHREDER, James Michael ROSA-BIAN, John URSO, Jason Thomas (31) 202016835732 (32) 31.03.2020 (33) United States of America	(51) G05B 19/042 (11) EP3896538 (21) EP21164739.1 (47) 13.09.2023 (22) 24.03.2021 (54) ON-PROCESS MIGRATION OF CONTROLLER(S) TO UTILIZE AN IO POOL (73) Honeywell International Inc. (72) MCLAUGHLIN, Paul Francis FELIX, Joseph Pradeep SCHREDER, James Michael ROSA-BIAN, John URSO, Jason Thomas (31) 202016835732 (32) 31.03.2020 (33) United States of America	(51) G05B 19/418 G05B 17/02 (11) EP3821309 (21) EP19736675.0 (47) 13.09.2023 (87) EP2019067911 16.01.2020 (22) 03.07.2019 (54) METHOD AND SYSTEM FOR CONTROLLING THE MATERIAL FLOW OF OBJECTS IN A REAL WAREHOUSE (73) Dematic GmbH (72) MEURER, Hans Christoph (31) 102018116611 (32) 10.07.2018 (33) Germany
(51) G05B 19/042 (11) EP3942373 (21) EP19749475.0 (47) 13.09.2023 (87) US2019040284 01.10.2020 (22) 02.07.2019 (54) SYSTEM CONTROL ARCHITECTURE MONITORING SYSTEM (73) Northrop Grumman Systems Corporation (72) LADURINI, Aaron R. COOK, Steven A. LITTERAL, George R. WAGNER, Philip J. ROBICHAUX, Brian HAWTHORNE, Woodrow AUGER, Keith MISKOW, Michael CRUSOE, Shanel PLAWECKI, Daniel W. (31) 201962822416 P (32) 22.03.2019 (33) United States of America	(51) G05B 19/042 (11) EP3942373 (21) EP19749475.0 (47) 13.09.2023 (87) US2019040284 01.10.2020 (22) 02.07.2019 (54) SYSTEM CONTROL ARCHITECTURE MONITORING SYSTEM (73) Northrop Grumman Systems Corporation (72) LADURINI, Aaron R. COOK, Steven A. LITTERAL, George R. WAGNER, Philip J. ROBICHAUX, Brian HAWTHORNE, Woodrow AUGER, Keith MISKOW, Michael CRUSOE, Shanel PLAWECKI, Daniel W. (31) 201962822416 P (32) 22.03.2019 (33) United States of America	(51) G05B 19/418 H01L 21/67 H01L 21/677 (11) EP3738906 (21) EP18900342.9 (47) 13.09.2023 (87) JP2018046539 18.07.2019 (22) 18.12.2018 (54) METHOD FOR CONTROLLING CONVEYANCE SYSTEM, CONVEYANCE SYSTEM, AND MANAGEMENT APPARATUS (73) Murata Machinery, Ltd. (72) KITAMURA, Wataru KUWAHARA, Tetsuya (31) 2018001760
(51) G05B 19/042 F15B 13/00 F15B 13/08 F15B 20/00	(51) G05B 19/048 G05B 23/02 (11) EP4036668 (21) EP22151568.7 (47) 13.09.2023 (22) 14.01.2022 (54) FUNCTIONAL SAFETY TECHNIQUES FOR INDUSTRIAL AUTOMATION DEVICES (73) Rockwell Automation Technologies, Inc. (72) Campbell, Al J. Allan, John David Chis, Marius G. Drake, Reginald A.	(51) G05B 19/418 H01L 21/67 H01L 21/677 (11) EP3738906 (21) EP18900342.9 (47) 13.09.2023 (87) JP2018046539 18.07.2019 (22) 18.12.2018 (54) METHOD FOR CONTROLLING CONVEYANCE SYSTEM, CONVEYANCE SYSTEM, AND MANAGEMENT APPARATUS (73) Murata Machinery, Ltd. (72) KITAMURA, Wataru KUWAHARA, Tetsuya (31) 2018001760



(32) 10.01.2018	(22) 04.08.2017	B67D 7/10
(33) Japan	(54) METHOD AND APPARATUS FOR	B67D 7/14
(51) G05B 23/02	CONTROLLING AN AUTONOMOUS	B67D 7/30
B29C 64/386	MOBILE ROBOT	B67D 7/32
B33Y 50/00	(73) Robart GmbH	B67D 7/74
(11) EP4040250	(72) ARTES, Harold	(11) EP3208230
(21) EP22166567.2	SCHAHNPAR, Michael	(21) EP17000267.9
(47) 13.09.2023	SEETHALER, Dominik	(47) 13.09.2023
(22) 18.10.2019	VOGEL, Reinhard	(22) 20.02.2017
(54) SYSTEM AND METHODS FOR	BARTEL, Daniel	(54) DOSING DEVICE AND METHOD FOR
GENERATING FAULT INDICATIONS	(31) 102016114593	OPERATING THE SAME
FOR AN ADDITIVE MANUFACTURING	102016114594	(73) Saier, Michael
PROCESS BASED ON A	(32) 05.08.2016	Saier, Beatrice
PROBABILISTIC COMPARISON	05.08.2016	(72) Saier, Michael
OF THE OUTPUTS OF MULTIPLE	(33) Germany	Saier, Beatrice
PROCESS MODELS TO MEASURED	Germany	(31) 102016102829
SENSOR DATA	(51) G05D 1/02	(32) 18.02.2016
(73) General Electric Company	G06V 20/10	(33) Germany
(72) Matthews, Harry Kirk	(11) EP3825805	(51) G05D 16/06
Felix, Sarah	(21) EP19838534.6	(11) EP3841446
Roychowdhury, Subhrajit	(47) 13.09.2023	(21) EP20725631.4
Majumder, Saikat Ray	(87) JP2019015544	(47) 13.09.2023
Spears, Thomas	23.01.2020	(87) EP2020061707
(31) 201916242194	(22) 10.04.2019	26.11.2020
(32) 08.01.2019	(54) AGENT, PRESENCE PROBABILITY	(22) 28.04.2020
(33) United States of America	MAP CREATION METHOD, AGENT	(54) PRESSURE REDUCING VALVE
(51) G05D 1/00	ACTION CONTROL METHOD, AND	(73) Goetze KG
G05D 1/06	PROGRAM	(72) BRAUN, David
(11) EP3855269	(73) Sony Group Corporation	SCHOTT, Steffen
(21) EP21151649.7	(72) SATO, Tatsuhito	(31) 202019102814 U
(47) 13.09.2023	(31) 2018136370	102019113168
(22) 14.01.2021	(32) 20.07.2018	(32) 17.05.2019
(54) APPROACH MODE ACTIVATION	(33) Japan	17.05.2019
MONITORING FUNCTION AND	(51) G05D 1/10	(33) Germany
AUTOMATIC ACTIVATION IN AN	(11) EP3816757	Germany
EVENT OF PILOT INCAPACITATION	(21) EP20198901.9	(51) G05F 1/00
(73) Honeywell International Inc.	(47) 13.09.2023	H02J 3/00
(72) VENKATARAMANA, Kiran	(22) 29.09.2020	H02J 9/06
PURUSHOTHAMAN, Deepak	(54) AERIAL VEHICLE NAVIGATION	(11) EP2743792
RAZACK, Fiyaz	SYSTEM	(21) EP13197007.1
MALSHETTY, Shashikant	(73) Aurora Flight Sciences Corporation	(47) 13.09.2023
(31) 202011002834	(72) WISSLER, John Brooke	(22) 12.12.2013
202017004503	NAHM, Eugene H.	(54) Intelligent adaptive power supply
(32) 22.01.2020	(31) 201916670038	(73) Johnson Controls Tyco IP Holdings LLP
27.08.2020	(32) 31.10.2019	(72) Redpath, George
(33) India	(33) United States of America	Naughton, Thomas
United States of America	(51) G05D 11/13	Budd, Robert
(51) G05D 1/00	A23L 2/52	McMaster, Mark
G05D 1/08	G01N 33/14	(31) 201213715389
B64C 29/00	B01F 35/21	(32) 14.12.2012
(11) EP3798780	(11) EP3700351	(33) United States of America
(21) EP20151077.3	(21) EP18869886.4	(51) G05F 1/565
(47) 13.09.2023	(47) 13.09.2023	G05F 1/575
(22) 09.01.2020	(87) US2018056836	H02M 1/14
(54) SYSTEM AND METHOD FOR	02.05.2019	H02M 3/158
CONTROLLING TILTROTOR AIRCRAFT	(22) 22.10.2018	H02M 1/00
(73) Textron Innovations Inc.	(54) REAL-TIME QUALITY MONITORING	(11) EP3844864
(72) Ruckel, Paul David	OF BEVERAGE BATCH PRODUCTION	(21) EP19766432.9
Chavez, Jeremy Robert	USING DENSITOMETRY	(47) 13.09.2023
(31) 201916585920	(73) Pepsico, Inc.	(87) US2019048729
(32) 27.09.2019	(72) CHOUBAK, Saman	05.03.2020
(33) United States of America	AHTCHI-ALI, Badreddine	(22) 29.08.2019
(51) G05D 1/02	(31) 201715793398	(54) DIGITALLY-ASSISTED DYNAMIC
(11) EP3494446	(32) 25.10.2017	MULTI-MODE POWER SUPPLY
(21) EP17757693.1	(33) United States of America	CIRCUIT
(47) 13.09.2023	(51) G05D 11/13	(73) QUALCOMM INCORPORATED
(87) EP2017069827	B67D 7/34	(72) WANG, Yikai
08.02.2018	B67D 7/02	EMBANATH, Sivaprasad

RUTKOWSKI, Joseph Dale	TRIVERIO, Marco	Kim, Beomju
(31) 201916554082	LYNCH, Kevin	(31) 20160037967
201862725033 P	(31) 201715705849	(32) 29.03.2016
(32) 28.08.2019	201762506304 P	(33) Korea (Republic)
30.08.2018	(32) 15.09.2017	(51) G06F 1/16
(33) United States of America	15.05.2017	H04M 1/02
United States of America	(33) United States of America	H01Q 1/22
(51) G06F 1/16	United States of America	H01Q 1/24
(11) EP3913463	(51) G06F 1/16	H01Q 1/50
(21) EP21174568.2	H04M 1/02	(11) EP3671403
(47) 13.09.2023	(11) EP3686711	(21) EP18882230.8
(22) 19.05.2021	(21) EP20152879.1	(47) 13.09.2023
(54) ELECTRONIC DEVICE	(47) 13.09.2023	(87) CN2018116728
(73) Samsung Display Co., Ltd.	(22) 21.01.2020	31.05.2019
(72) YOO, BUGYOON	(54) HINGED ELECTRONIC DEVICE WITH	(22) 21.11.2018
KIM, YUNJAE	CHAMBERS ACCOMMODATING A	(54) ANTENNA ASSEMBLY, TERMINAL
(31) 20200061002	DYNAMIC FLEXIBLE SUBSTRATE AND	DEVICE, AND METHOD FOR
(32) 21.05.2020	CORRESPONDING SYSTEMS	IMPROVING ANTENNA RADIATION
(33) Korea (Republic)	(73) Motorola Mobility LLC	PERFORMANCE
(51) G06F 1/16	(72) CARLSON, Christopher	(73) GUANGDONG OPPO MOBILE
(11) EP4092506	EMMERT, Steve	TELECOMMUNICATIONS CORP., LTD.
(21) EP22165003.9	(31) 201916255693	(72) YANG, Huai
(47) 13.09.2023	(32) 23.01.2019	(31) 201711200495
(22) 29.03.2022	(33) United States of America	(32) 23.11.2017
(54) ELECTRONIC DEVICE WITH CAMERA	(51) G06F 1/16	(33) China
ANTI-PEEPING STRUCTURE	H04M 1/02	(51) G06F 3/01
(73) Pegatron Corporation	(11) EP3845996	(11) EP3896555
(72) LIN, Chuan-Yuan	(21) EP19854552.7	(21) EP19897096.4
WANG, Hui-Chen	(47) 13.09.2023	(47) 13.09.2023
HSIEH, I-Tien	(87) CN2019099233	(87) JP2019042096
WU, Hung-Yun	05.03.2020	18.06.2020
(31) 110117950	(22) 05.08.2019	(22) 28.10.2019
(32) 18.05.2021	(54) ROTARY SHAFT AND ELECTRONIC	(54) INFORMATION PROCESSING DEVICE,
(33) Taiwan, Chinese Taipei	DEVICE HAVING ROTARY SHAFT	INFORMATION PROCESSING
(51) G06F 1/16	(73) VIVO MOBILE COMMUNICATION CO.,	SYSTEM, INFORMATION
G06F 3/01	LTD.	PROCESSING METHOD, AND
(11) EP3699724	(72) ZHANG, Xinfu	PROGRAM
(21) EP18881940.3	(31) 201810995662	(73) Sony Group Corporation
(47) 13.09.2023	(32) 29.08.2018	(72) YOKOYAMA, Ryo
(87) KR2018014381	(33) China	ITO, Osamu
31.05.2019	(51) G06F 1/16	(31) 2018233228
(22) 21.11.2018	H04M 1/02	(32) 13.12.2018
(54) ELECTRONIC DEVICE COMPRISING	(11) EP3770725	(33) Japan
FLEXIBLE HINGE	(21) EP20186882.5	(51) G06F 3/01
(73) Samsung Electronics Co., Ltd.	(47) 13.09.2023	A41D 1/00
(72) JUNG, Seungho	(22) 21.07.2020	A61B 5/00
KIM, Iksang	(54) DISPLAY DEVICE	A41D 1/06
(31) 20170155639	(73) Samsung Display Co., Ltd.	(11) EP3552054
(32) 21.11.2017	(72) PARK, Changmin	(21) EP18152875.3
(33) Korea (Republic)	(31) 20190090727	(47) 13.09.2023
(51) G06F 1/16	(32) 26.07.2019	(22) 23.01.2018
G06F 3/0488	(33) Korea (Republic)	(54) GARMENT, SYSTEM AND METHOD
A61B 5/11	(51) G06F 1/16	FOR TRANSMITTING AUDIO AND/
(11) EP3610351	H04M 1/02	OR MESSAGING INFORMATION TO A
(21) EP18727543.3	G02F 1/1333	USER
(47) 13.09.2023	G06V 40/13	(73) Sanko Tekstil Isletmeleri San. Ve Tic.
(87) US2018031662	(11) EP3783455	A.S.
22.11.2018	(21) EP20170334.5	(72) ERYILMAZ, Jitka
(22) 08.05.2018	(47) 13.09.2023	COBANOGLU, Ozgur
(54) DISPLAYING A SCROLLABLE LIST OF	(22) 21.03.2017	OZKAN, Kadir
AFFORDANCES ASSOCIATED WITH	(54) ELECTRONIC DEVICE INCLUDING	CAGLAR, Fehim
PHYSICAL ACTIVITIES	DISPLAY AND CAMERA	(31) 17152717
(73) Apple Inc.	(73) Samsung Electronics Co., Ltd.	(32) 23.01.2017
(72) WILLIAMS, Aled Hywel	(72) Kwak, Wongeun	(33) European Patent Office (EPO)
BUTCHER, Gary Ian	Park, Jungsik	(51) G06F 3/01
SOLI, Christopher D.	Byeon, Hyungsup	A61B 90/00
SUNDSTROM, Matthew J.	Yoon, Byounguk	A61B 6/03
WIEBE, Molly Pray	Hong, Hjunju	A61B 6/00

A61B 17/00	G06T 19/00	(87) CN2015091061
A61B 34/10	G06T 7/70	29.12.2016
A61B 90/50	(11) EP3724745	(22) 29.09.2015
(11) EP3907585	(21) EP17818540.1	(54) IN-CELL TOUCH DISPLAY PANEL,
(21) EP21172891.0	(47) 13.09.2023	DRIVING METHOD THEREFOR, AND
(47) 13.09.2023	(87) EP2017083074	DISPLAY DEVICE
(22) 07.05.2021	20.06.2019	(73) BOE Technology Group Co., Ltd.
(54) SYSTEMS AND METHODS OF	(22) 15.12.2017	Beijing BOE Optoelectronics Technology
CONTROLLING AN OPERATING ROOM	(54) DETERMINING A CONTENT POSE OF	Co., Ltd.
DISPLAY USING AN AUGMENTED	A PIECE OF VIRTUAL CONTENT	(72) YANG, Shengji
REALITY HEADSET	(73) Telefonaktiebolaget LM Ericsson (publ)	DONG, Xue
(73) Covidien LP	(72) ARAÚJO, José	WANG, Haisheng
(72) KOMP, John W.	AL-HUSSEINY, Zeid	CHEN, Xiaochuan
(31) 202117196344	HERNANDEZ HERRANZ, Aitor	LIU, Yingming
202063022219 P	ANDERSSON, Lars	ZHAO, Weijie
(32) 09.03.2021	(51) G06F 3/01	LIU, Hongjuan
08.05.2020	G06T 19/00	LI, Wei
(33) United States of America	(11) EP3716014	WANG, Chunlei
United States of America	(21) EP19165281.7	XIE, Xiaobo
(51) G06F 3/01	(47) 13.09.2023	XU, Rui
G02B 27/00	(22) 26.03.2019	(31) 201510350224
G02B 27/01	(54) TRANSFER OF A CONDITION	(32) 23.06.2015
G02B 27/42	BETWEEN VR ENVIRONMENTS	(33) China
H04N 13/344	(73) Siemens Healthcare GmbH	(51) G06F 3/043
H04N 13/383	(72) Ebert, Anton	G01H 9/00
G02B 26/08	(51) G06F 3/01	(11) EP3625656
G02B 26/10	G09G 3/00	(21) EP18730417.5
(11) EP3935476	G06T 19/00	(47) 13.09.2023
(21) EP20713471.9	G02B 27/01	(87) GB2018051342
(47) 13.09.2023	G02B 27/00	22.11.2018
(87) US2020019775	G06F 3/147	(22) 17.05.2018
10.09.2020	G06T 13/00	(54) TOUCH-BASED INPUT DEVICE
(22) 26.02.2020	G09G 5/02	(73) Sintef TTO AS
(54) IR ILLUMINATION MODULE FOR	G09G 5/18	(72) DAHL, Tobias Gulden
MEMS-BASED EYE TRACKING	(11) EP3889739	BJERKENG, Magnus Christian
(73) Microsoft Technology Licensing, LLC	(21) EP21154118.0	VOGL, Andreas
(72) PRICE, Raymond Kirk	(47) 13.09.2023	PETTERSEN, Odd Kristen Østern
POON, Yarn Chee	(22) 14.01.2017	(31) 201708100
ULANCH, Rachel N.	(54) FRAME PROJECTION FOR	(32) 19.05.2017
YEE, Rashelle Kay	AUGMENTED REALITY	(33) United Kingdom
(31) 201916291260	ENVIRONMENTS	(51) G06F 3/044
(32) 04.03.2019	(73) Microsoft Technology Licensing, LLC	(11) EP3457267
(33) United States of America	(72) MARGOLIS, Jeffrey Neil	(21) EP18194832.4
(51) G06F 3/01	CRISLER, Matthew	(47) 13.09.2023
G06F 1/16	(31) 201615005702	(22) 17.09.2018
G06F 3/16	(32) 25.01.2016	(54) INPUT-SENSING DEVICE AND
G06V 20/20	(33) United States of America	DISPLAY MODULE INCLUDING THE
(11) EP3559937	(51) G06F 3/041	SAME
(21) EP17885286.9	G06F 3/044	(73) Samsung Display Co., Ltd.
(47) 13.09.2023	(11) EP3428783	(72) SON, Hoseok
(87) US2017068123	(21) EP18168603.1	KIM, Kwan-ho
28.06.2018	(47) 13.09.2023	CHO, Sungyeon
(22) 22.12.2017	(22) 20.04.2018	KU, Jaseung
(54) HANDS-FREE CONTEXTUALLY	(54) TOUCH DISPLAY APPARATUS	(31) 20170119772
AWARE OBJECT INTERACTION FOR	INTEGRATED FINGERPRINT SENSOR	(32) 18.09.2017
WEARABLE DISPLAY	(73) Samsung Display Co., Ltd	(33) Korea (Republic)
(73) Realwear, Incorporated	(72) KO, Gwang-Bum	(51) G06F 3/045
(72) JHAWAR, Sanjay Subir	JEONG, Yeri	G06F 3/041
PARKINSON, Christopher Iain	HAN, Jeongyun	(11) EP3121696
LUSTIG, Kenneth	(31) 20170087956	(21) EP14886116.4
(31) 201715697214	(32) 11.07.2017	(47) 13.09.2023
201615390389	(33) Korea (Republic)	(87) JP2014080374
(32) 06.09.2017	(51) G06F 3/041	24.09.2015
23.12.2016	G06F 3/044	(22) 17.11.2014
(33) United States of America	G09G 3/32	(54) TOUCH PANEL, INPUT APPARATUS,
United States of America	(11) EP3316087	REMOTE CONTROL APPARATUS, AND
(51) G06F 3/01	(21) EP15894519.6	TOUCH PANEL MANUFACTURING
G06F 3/03	(47) 13.09.2023	METHOD

(73) Mitsubishi Electric Corporation	KWON, Ohyoon	G06F 3/0484
(72) KOIZUMI Yoshiaki	YOON, Deokgyoon	G06F 3/0481
(31) PCT/JP2014/057370	LEE, Jiwoo	(11) EP3523716
(32) 18.03.2014	LIM, Yeunwook	(21) EP17862147.0
(33) World Intellectual Property Office (WIPO)	(31) 20180154620	(47) 13.09.2023
(51) G06F 3/048	(32) 04.12.2018	(87) KR2017011415
G06F 3/0488	(33) Korea (Republic)	26.04.2018
G06F 3/0482	(51) G06F 3/04842	(22) 16.10.2017
G06F 3/0481	G06F 3/0484	(54) ELECTRONIC DEVICE AND METHOD
G06F 3/04817	G08B 13/196	FOR CONTROLLING DISPLAY IN
(11) EP3467629	H04N 7/18	ELECTRONIC DEVICE
(21) EP17824480.2	G06V 20/52	(73) Samsung Electronics Co., Ltd.
(47) 13.09.2023	G06V 40/10	(72) PARK, Sun-Young
(87) KR2017007043	G06V 40/20	KO, Jeong-Won
11.01.2018	(11) EP3992936	KWON, Joong-Hun
(22) 03.07.2017	(21) EP20205217.1	KIM, Chang-Hwan
(54) USER INTERFACE PROVISION	(47) 13.09.2023	NAM, Sang-Deuk
METHOD AND ELECTRONIC DEVICE	(22) 02.11.2020	NAM, Seung-Wook
FOR SUPPORTING SAME	(54) A METHOD OF ACTIVATING AN	PARK, Myoung-Soo
(73) Samsung Electronics Co., Ltd.	OBJECT-SPECIFIC ACTION WHEN	LEE, Kyung-Jun
(72) CHOI, Seung Min	TRACKING A MOVING OBJECT	LEE, Dong-Oh
KWAK, Woon Geun	(73) Axis AB	JUNG, Jun-Won
KIM, Kuk Hwan	(72) Hjelmström, Jonas	YANG, Hui-Chul
PARK, Jung Sik	Lundberg, Stefan	LEE, Hyun-Yeul
YEO, Jung Hee	(51) G06F 3/0485	JEONG LIM, Soojin
LEE, Yong Seok	H04N 21/4788	(31) 20160134268
JUNG, Min Su	H04N 21/472	(32) 17.10.2016
(31) 20160083961	H04N 21/414	(33) Korea (Republic)
(32) 04.07.2016	H04N 21/2743	(51) G06F 3/04883
(33) Korea (Republic)	H04L 12/00	G06F 3/04886
(51) G06F 3/0481	(11) EP3532917	G06F 3/0482
G06Q 30/0601	(21) EP17870997.8	(11) EP3655849
G06Q 50/12	(47) 13.09.2023	(21) EP18766035.2
G06V 40/10	(87) US2017054440	(47) 13.09.2023
G06F 9/451	24.05.2018	(87) IB2018000986
(11) EP3539076	(22) 29.09.2017	24.01.2019
(21) EP17884158.1	(54) VIDEO PLAYBACK IN GROUP	(22) 13.07.2018
(47) 13.09.2023	COMMUNICATIONS	(54) METHOD FOR HANDLING ON A
(87) US2017053455	(73) Google LLC	MOBILE TERMINAL A LIST OF
28.06.2018	(72) TANG, Annie	CONTENTS EACH ASSOCIATED TO A
(22) 26.09.2017	DE BOURSETTY, Benoit	SUB-CONTENT
(54) SMART ASSIST FOR REPEATED	(31) 201715717273	(73) ORANGE
ACTIONS	201662424940 P	(72) TOURNEUR, Michael
(73) Google LLC	(32) 27.09.2017	(31) PCT/CN2017/093880
(72) CARBUNE, Victor	21.11.2016	(32) 21.07.2017
KEYSERS, Daniel	(33) United States of America	(33) World Intellectual Property Office (WIPO)
DESELAERS, Thomas	United States of America	(51) G06F 3/06
(31) 201615383966	(51) G06F 3/0488	G06F 12/02
(32) 19.12.2016	G06F 3/0481	G06F 1/3225
(33) United States of America	G06F 3/0484	G06F 1/3234
(51) G06F 3/0484	G06F 3/041	G06F 12/0868
G06F 3/023	G06F 9/451	(11) EP3751407
G06F 3/0488	(11) EP3529690	(21) EP20179543.2
G06Q 50/10	(21) EP18757098.1	(47) 13.09.2023
G06F 3/0354	(47) 13.09.2023	(22) 11.06.2020
G06F 3/01	(87) KR2018002265	(54) ELECTRONIC DEVICE AND METHOD
G06F 3/04883	30.08.2018	OF UTILIZING STORAGE SPACE
(11) EP3853705	(22) 23.02.2018	THEREOF
(21) EP19894159.3	(54) ELECTRONIC APPARATUS AND	(73) Samsung Electronics Co., Ltd.
(47) 13.09.2023	CONTROL METHOD THEREOF	(72) Jung, Wonsuk
(87) KR2019016767	(73) Samsung Electronics Co., Ltd.	Lee, Junwoo
11.06.2020	(72) CHOI, Jin-wook	Jang, Jintae
(22) 29.11.2019	KIM, Hong-jae	(31) 20190069161
(54) ELECTRONIC DEVICE FOR	(31) 20170024961	(32) 12.06.2019
GENERATING AUGMENTED REALITY	(32) 24.02.2017	(33) Korea (Republic)
EMOJI AND METHOD THEREOF	(33) Korea (Republic)	(51) G06F 3/06
(73) Samsung Electronics Co., Ltd.	(51) G06F 3/0488	G06F 12/08
(72) SHIN, Sangmin	G06F 3/14	(11) EP3724752

(21) EP18839819.2	(73) Microsoft Technology Licensing, LLC	G06F 21/62
(47) 13.09.2023	(72) MACCONNELL, Duncan Og	H04L 9/08
(87) FR2018053199	ROSTOVTSSEV, Ilya Yurievich	H04L 9/32
20.06.2019	FENTON, Stephen Earl	H04L 41/046
(22) 11.12.2018	CHAU, Bill	H04L 41/0806
(54) METHOD FOR MANAGING THE FILE	SMITH, Kenneth Douglas	H04L 43/50
SYSTEM OF A COMPUTER TERMINAL	GRAHAM, Kelly Jean	H04L 9/40
(73) Moore	KHELIFI, Ines	H04L 67/1097
(72) POUPET, Paul	BUTCHER, Thomas Charles	G06F 8/70
POILVE, Benjamin	(31) 201816234045	G06F 21/33
(31) 1762002	(32) 27.12.2018	H04L 41/084
(32) 12.12.2017	(33) United States of America	H04L 41/5054
(33) France	(51) G06F 3/16	H04L 41/50
(51) G06F 3/12	G10L 15/22	(11) EP3724755
(11) EP3361373	H04L 9/40	(21) EP18730260.9
(21) EP18154929.6	H04W 12/03	(47) 13.09.2023
(47) 13.09.2023	H04W 12/0471	(87) EP2018063758
(22) 02.02.2018	H04L 12/28	18.07.2019
(54) DEVICE AND METHOD FOR	G06F 21/44	(22) 25.05.2018
PRODUCING IMAGES	H04W 8/00	(54) ARTIFACT LIFECYCLE MANAGEMENT
(73) Canon Production Printing Holding B.V.	H04W 84/12	ON A CLOUD COMPUTING SYSTEM
(72) VAN HORSSSEN, Ernst P.	(11) EP3841500	(73) Siemens Aktiengesellschaft
HOWARD, William E.P.P.	(21) EP19797886.9	(72) BAIERLEIN, Thomas
VAN DE MEULENGRAAF, Dick W.C.P.	(47) 13.09.2023	BOCHE, Maik
OTTEN, Niek	(87) US2019055718	BURGER, Stefan
LAUDY, Peter J.M.	23.04.2020	EBERT, Michael
(31) 17155910	(22) 10.10.2019	GALLINAT, Christina
(32) 13.02.2017	(54) MEDIA INTERCOM OVER A SECURE	KOKA, Preeti
(33) European Patent Office (EPO)	DEVICE TO DEVICE COMMUNICATION	RIEDL, Riccardo
(51) G06F 3/12	CHANNEL	WAHL, Alexander
(11) EP3654168	(73) Apple Inc.	(31) 18151637
(21) EP18206563.1	(72) BRADLEY, Bob	(32) 15.01.2018
(47) 13.09.2023	KROCHMAL, Marc J.	(33) European Patent Office (EPO)
(22) 15.11.2018	(31) 201916586538	(51) G06F 8/654
(54) PRINTING SYSTEM AND A METHOD	201862748224 P	G06F 8/71
FOR DETERMINING A SURPLUS OF	(32) 27.09.2019	B60R 16/023
MEDIA IN THE DEVICE	19.10.2018	G06F 11/36
(73) Canon Production Printing Holding B.V.	(33) United States of America	(11) EP3352080
(72) JANSSEN, Jeroen A.P	United States of America	(21) EP16845861.0
WIERDA, Andreas	(51) G06F 7/58	(47) 13.09.2023
VAN VLIEMBERGEN, Eduardus J.W.	G06N 3/084	(87) JP2016003082
SAMPERS, Rudolf A.H.	(11) EP3474134	23.03.2017
BIJSTERVELD, Henricus A.G.	(21) EP18200110.7	(22) 27.06.2016
BLOM, Jeroen	(47) 13.09.2023	(54) GATEWAY DEVICE, FIRMWARE
VAN DE MEULENGRAAF, Dick W.C.P.	(22) 12.10.2018	UPDATE METHOD, AND CONTROL
(51) G06F 3/14	(54) GENERATING RANDOMNESS IN	PROGRAM
G02B 30/54	NEURAL NETWORKS	(73) Panasonic Intellectual Property
H04N 13/39	(73) Graphcore Limited	Corporation of America
(11) EP2577380	(72) FELIX, Stephen	(72) MAEDA, Manabu
(21) EP10852072.7	DA COSTA, Godfrey	MATSUSHIMA, Hideki
(47) 13.09.2023	(31) 201717309	HAGA, Tomoyuki
(87) IB2010052310	(32) 20.10.2017	UJIIE, Yoshihiro
01.12.2011	(33) United Kingdom	KISHIKAWA, Takeshi
(22) 25.05.2010	(51) G06F 7/58	(31) 2016109537
(54) A THREE-DIMENSIONAL DISPLAY FOR	G11C 13/00	201562218074 P
DISPLAYING VOLUMETRIC IMAGES	(11) EP2933720	(32) 31.05.2016
(73) Nokia Technologies Oy	(21) EP15163087.8	14.09.2015
(72) LEVOLA, Tapani Kalervo	(47) 13.09.2023	(33) Japan
KIMMEL, Jyrki Sakari	(22) 10.04.2015	United States of America
(51) G06F 3/16	(54) RANDOM NUMBER PROCESSING	(51) G06F 9/30
(11) EP3903177	APPARATUS	(11) EP3655852
(21) EP19839604.6	(73) Panasonic Semiconductor Solutions Co.,	(21) EP18739625.4
(47) 13.09.2023	Ltd.	(47) 13.09.2023
(87) US2019067708	(72) Katoh, Yoshikazu	(87) GB2018051854
02.07.2020	(31) 2014084173	24.01.2019
(22) 20.12.2019	(32) 16.04.2014	(22) 02.07.2018
(54) ASYNCHRONOUS COMMUNICATIONS	(33) Japan	(54) VECTOR INTERLEAVING IN A DATA
IN MIXED-REALITY	(51) G06F 8/60	PROCESSING APPARATUS

(73) ARM Limited	(87) US2019035557	(72) GOSTEV, Anton
(72) EYOLE, Mbou	19.12.2019	TIMASHEV, Ratmir
STEPHENS, Nigel John	(22) 05.06.2019	(31) 30274310 P
(31) 201711707	(54) ENABLING MULTIPLE SECURE BOOT	25058609 P
(32) 20.07.2017	PATHS ON A HARDWARE PLATFORM	(32) 09.02.2010
(33) United Kingdom	(73) Google LLC	12.10.2009
(51) G06F 9/30	(72) KUMAR, Puneet	(33) United States of America
G06F 7/485	HAYTER, Mark	United States of America
G06F 7/499	CALKINS, Willis	
G06F 9/38	LAURIE, Duncan	(51) G06F 9/455
G06F 11/00	(31) 201816004586	G06F 9/50
(11) EP3391198	(32) 11.06.2018	H04L 41/0806
(21) EP16879681.1	(33) United States of America	H04L 41/0895
(47) 13.09.2023		H04L 41/40
(87) US2016062921	(51) G06F 9/451	H04L 43/0852
29.06.2017	G06F 3/048	H04L 43/0876
(22) 18.11.2016	G06N 20/00	H04L 43/20
(54) INSTRUCTION AND LOGIC FOR	G06F 8/38	H04L 41/0213
DETECTING THE FLOATING POINT	G06F 9/445	(11) EP3807760
CANCELLATION EFFECT	G06F 11/34	(21) EP19740639.0
(73) Intel Corporation	(11) EP3616053	(47) 13.09.2023
(72) OULD-AHMED-VALL, Elmoustapha	(21) EP18722861.4	(87) FR2019051362
ASTAFEV, Nikita	(47) 13.09.2023	26.12.2019
(31) 201514975811	(87) US2018028216	(22) 06.06.2019
(32) 20.12.2015	01.11.2018	(54) METHOD FOR INSTALLING A VIRTUAL
(33) United States of America	(22) 19.04.2018	NETWORK FUNCTION
(51) G06F 9/4401	(54) ARTIFICIAL INTELLIGENT COGNITION	(73) ORANGE
(11) EP4034997	THRESHOLD	(72) SLIM, Farah
(21) EP20792299.8	(73) Microsoft Technology Licensing, LLC	FROMENTOUX, Gaël
(47) 13.09.2023	(72) OSOTIO, Neal T.	(31) 1855333
(87) EP2020076968	MOULDEN, Angela L.	(32) 18.06.2018
01.04.2021	REAM, Michael David	(33) France
(22) 25.09.2020	CROSSLIN-WEBB, Michelle R.	
(54) METHOD FOR STARTING-UP A	(31) 201715582062	(51) G06F 9/46
DEVICE WITH AN EMBEDDED	(32) 28.04.2017	G06F 16/2453
MULTIMEDIA CARD (EMMC)	(33) United States of America	G06F 16/23
(73) Continental Automotive Technologies		G06F 16/2458
GmbH	(51) G06F 9/451	G06F 9/52
(72) STREIT, Alexander	G06F 9/445	(11) EP3396542
TOSCHER, Klaus	G06F 3/0482	(21) EP16877621.9
WEISS, Andreas	G06F 3/04817	(47) 13.09.2023
(31) 102019214835	(11) EP3188006	(87) CN2016109653
(32) 27.09.2019	(21) EP16206931.4	29.06.2017
(33) Germany	(47) 13.09.2023	(22) 13.12.2016
(51) G06F 9/4401	(22) 27.12.2016	(54) DATABASE OPERATING METHOD AND
G06F 9/451	(54) COMPOSITE GRAPHICAL INTERFACE	DEVICE
G06F 9/48	WITH SHAREABLE DATA-OBJECTS	(73) Alibaba Group Holding Limited
G06F 3/0483	(73) Palantir Technologies Inc.	(72) WANG, Jingyu
(11) EP3968139	(72) Elliot, Mark	(31) 201510960860
(21) EP21205833.3	Schimpf, Brian	(32) 21.12.2015
(47) 13.09.2023	Slatcher, Timothy	(33) China
(22) 28.12.2012	Ramaswamy, Ashwin	
(54) MULTITASKING METHOD AND	(31) 201615139793	(51) G06F 9/50
APPARATUS OF USER DEVICE	201562273320 P	(11) EP3667500
(73) Samsung Electronics Co., Ltd.	(32) 27.04.2016	(21) EP19209365.6
(72) PARK, Young Joo	30.12.2015	(47) 13.09.2023
PARK, Se Hwan	(33) United States of America	(22) 15.11.2019
KANG, Min Jeong	United States of America	(54) USING A CONTAINER
CHOI, Jin Hee		ORCHESTRATION SERVICE FOR
(31) 20110144975	(51) G06F 9/455	DYNAMIC ROUTING
(32) 28.12.2011	G06F 9/445	(73) SAP SE
(33) Korea (Republic)	G06F 11/14	(72) Fildebrandt, Ulf
(51) G06F 9/4401	G06F 11/36	Ahuja, Sapreen
G06F 21/44	(11) EP3474138	(31) 201816214356
G06F 21/57	(21) EP18208677.7	(32) 10.12.2018
(11) EP3785115	(47) 13.09.2023	(33) United States of America
(21) EP19732826.3	(22) 08.10.2010	
(47) 13.09.2023	(54) ITEM-LEVEL RESTORATION AND	(51) G06F 9/50
	VERIFICATION OF IMAGE LEVEL	G06F 9/54
	BACKUPS	(11) EP3835956
	(73) Veeam Software AG	(21) EP20197496.1
		(47) 13.09.2023

(22) 22.09.2020	(32) 05.11.2020	(87) US2018055654
(54) DATA STRUCTURE EXECUTION FRAMEWORK USING VIRTUAL COMPUTING DOMAINS	(33) Korea (Republic)	20.06.2019
(73) SAP SE	(51) G06F 11/07	(22) 12.10.2018
(72) BANG, Tiemo	G06F 11/34	(54) SYSTEM AND METHOD FOR ONLINE FUNCTIONAL TESTING FOR ERROR-CORRECTING CODE FUNCTION
MAY, Norman	(11) EP3535665	(73) QUALCOMM Incorporated
OUKID, Ismail	(21) EP16923269.1	(72) KAKOEE, Mohammad Reza
BINNIG, Carsten	(47) 13.09.2023	GULATI, Rahul
(31) 201916712728	(87) CN2016109000	MAHURIN, Eric
(32) 12.12.2019	14.06.2018	VENKUMAHANTI, Suresh Kumar
(33) United States of America	(22) 08.12.2016	CHUN, Dexter
(51) G06F 9/54	(54) METHODS AND SYSTEMS FOR PROCESSING LOG DATA	(31) 201715838777
G06F 9/48	(73) Zhejiang Dahua Technology Co., Ltd	(32) 12.12.2017
G06F 9/451	(72) ZHOU, Mingwei	(33) United States of America
(11) EP4033358	(51) G06F 11/10	(51) G06F 11/30
(21) EP22161682.4	(11) EP3908931	G06F 11/34
(47) 13.09.2023	(21) EP19804807.6	(11) EP3912039
(22) 12.06.2015	(47) 13.09.2023	(21) EP20712713.5
(54) REMOTE INVOCATION OF MOBILE DEVICE ACTIONS	(87) GB2019053189	(47) 13.09.2023
(73) Google LLC	16.07.2020	(87) US2020016722
(72) BAR-OR, Omer	(22) 11.11.2019	27.08.2020
HUFFMAN, Scott B.	(54) TRANSLATION PROTECTION IN A DATA PROCESSING APPARATUS	(22) 05.02.2020
MAYER, Ida	(73) ARM Limited	(54) MACHINE-BASED RECOGNITION AND DYNAMIC SELECTION OF SUBPOPULATIONS FOR IMPROVED TELEMETRY
BLUME, Arthur E.	(72) XU, Zheng	(73) Microsoft Technology Licensing, LLC
GUPTA, Pravir Kumar	KANAWATI, Ghani	(72) MARKIEWICZ, Marcus Eduardo
(31) 201414311995	CHAKRALA, Viswanath	NIGOGHOSIAN, Krikor, Jr.
(32) 23.06.2014	(31) 201916243168	(31) 201916283703
(33) United States of America	(32) 09.01.2019	(32) 22.02.2019
(51) G06F 11/00	(33) United States of America	(33) United States of America
H04L 9/40	(51) G06F 11/10	(51) G06F 12/02
(11) EP3452910	G06F 8/65	G06F 3/06
(21) EP17793477.5	(11) EP4073650	(11) EP3825856
(47) 13.09.2023	(21) EP21701903.3	(21) EP19837189.0
(87) US2017031348	(47) 13.09.2023	(47) 13.09.2023
09.11.2017	(87) EP2021050534	(87) CN2019080815
(22) 05.05.2017	12.08.2021	23.01.2020
(54) SECURITY WEAKNESS AND INFILTRATION DETECTION AND REPAIR IN OBFUSCATED WEBSITE CONTENT	(22) 13.01.2021	(22) 01.04.2019
(73) Sitelock, LLC	(54) METHOD FOR IDENTIFYING AND VERIFYING CONTROL SOFTWARE OF A RAIL VEHICLE	(54) WEAR LEVELING AND ACCESS METHOD AND DEVICE FOR NON-VOLATILE MEMORY, AND STORAGE MEDIUM
(72) GORNY, Tomas	(73) Siemens Mobility GmbH	(73) ZTE Corporation
CONRAD, Tracy	(72) WEBER, Matthias Alexander	(72) YANG, Hongzhang
LOVELL, Scott	(31) 102020201257	TU, Yaofeng
FEATHER, Neill, E.	(32) 03.02.2020	CHEN, Guihai
(31) 201662422311 P	(33) Germany	GUO, Bin
201662332720 P	(51) G06F 11/10	HAN, Yinjun
(32) 15.11.2016	G06F 8/65	YAN, Zongshuai
06.05.2016	(11) EP4073651	HUANG, Zhenjiang
(33) United States of America	(21) EP21701904.1	GAO, Hong
United States of America	(47) 13.09.2023	(31) 201810824443
(51) G06F 11/07	(87) EP2021050538	201810802096
G06F 11/14	12.08.2021	(32) 25.07.2018
(11) EP3995961	(22) 13.01.2021	20.07.2018
(21) EP21205809.3	(54) METHOD FOR IDENTIFYING AND VERIFYING CONTROL SOFTWARE OF A RAIL VEHICLE	(33) China
(47) 13.09.2023	(73) Siemens Mobility GmbH	China
(22) 01.11.2021	(72) WEBER, Matthias Alexander	(51) G06F 12/08
(54) STORAGE SYSTEM AND OPERATING METHOD THEREOF	(31) 102020201259	G06F 3/06
(73) Samsung Electronics Co., Ltd.	(32) 03.02.2020	G06F 12/1036
(72) LEE, Jongwon	(33) Germany	(11) EP3608788
PARK, Jangwook	(51) G06F 11/10	(21) EP18790799.3
BANG, Kwanhu	G06F 11/22	(47) 13.09.2023
BAE, Joonwhan	(11) EP3724763	(87) CN2018084777
JUNG, Brian Myungjune	(21) EP18796553.8	01.11.2018
(31) 20200147082	(47) 13.09.2023	

(22) 27.04.2018	HAM, Tae Jun	(32) 03.12.2020
(54) INTERNAL MEMORY ACCESS METHOD AND COMPUTER SYSTEM	(31) 20200065330	17.06.2020
(73) Huawei Technologies Co., Ltd.	(32) 29.05.2020	(33) Korea (Republic)
Huazhong University of Science and Technology	(33) Korea (Republic)	Korea (Republic)
(72) LIU, Haikun	(51) G06F 13/00	(51) G06F 13/24
CHEN, Ji	G09F 21/00	(11) EP4113311
YU, Guosheng	H04B 10/116	(21) EP22154774.8
(31) 201710289650	H04M 11/00	(47) 13.09.2023
(32) 27.04.2017	H04W 4/00	(22) 02.02.2022
(33) China	H04W 4/021	(54) STORAGE DEVICE, OPERATING METHOD OF STORAGE DEVICE, AND ELECTRONIC DEVICE
(51) G06F 12/08	H04W 4/40	(73) Samsung Electronics Co., Ltd.
G06F 12/109	H04W 76/10	(72) LIM, Jaehwan
G06F 12/0862	G08G 1/133	KIM, Jae Eun
(11) EP3769202	H04B 10/114	KIM, Ji-Hoon
(21) EP19770408.3	(11) EP3647960	JUN, Walter
(47) 13.09.2023	(21) EP18825422.1	LEE, Jungwoo
(87) US2019022665	(47) 13.09.2023	LIM, Seung-Woo
26.09.2019	(87) JP2018021979	(31) 20210086577
(22) 18.03.2019	03.01.2019	202217575907
(54) HYBRID MEMORY SYSTEM	(22) 08.06.2018	(32) 01.07.2021
(73) Micron Technology, Inc.	(54) COMMUNICATION DEVICE AND COMMUNICATION METHOD	14.01.2022
(72) CARACCIO, Danilo	(73) Panasonic Intellectual Property Corporation of America	(33) Korea (Republic)
CONFALONIERI, Emanuele	(72) MURAKAMI, Yutaka	United States of America
DALLABORA, Marco	(31) 2017129124	(51) G06F 13/38
IZZU, Roberto	(32) 30.06.2017	G06F 13/12
AMATO, Paolo	(33) Japan	G06F 13/40
BALLUCHI, Daniele	(51) G06F 13/16	G06F 13/16
PORZIO, Luca	G06F 3/06	G06F 12/02
(31) 201815927530	(11) EP3474150	G05B 19/042
(32) 21.03.2018	(21) EP18211080.9	G06F 3/06
(33) United States of America	(47) 13.09.2023	(11) EP3411797
(51) G06F 12/0868	(22) 12.12.2016	(21) EP17747906.0
G06F 12/0888	(54) MEMORY CONTROLLER ARBITER WITH STREAK AND READ/WRITE TRANSACTION MANAGEMENT	(47) 13.09.2023
G06F 1/30	(73) Advanced Micro Devices, Inc.	(87) US2017013696
G06F 1/26	(72) BALAKRISHNAN, Kedernath	10.08.2017
G06F 11/14	(31) 201615272626	(22) 17.01.2017
G06F 3/06	201662377367 P	(54) RELAY MECHANISM TO FACILITATE PROCESSOR COMMUNICATION WITH INACCESSIBLE INPUT/OUTPUT (I/O) DEVICE
(11) EP3547147	201662363018 P	(73) Honeywell International Inc.
(21) EP19160067.5	(32) 22.09.2016	(72) RACHLIN, Elliott
(47) 13.09.2023	19.08.2016	KIRK, David L.
(22) 28.02.2019	15.07.2016	KRISHNAMURTHY, Ananthapadmanabha
(54) SSD WITH PERSISTENT DRAM REGION FOR METADATA	(33) United States of America	(31) 201615017422
(73) Intel Corporation	United States of America	(32) 05.02.2016
(72) LI, Peng	United States of America	(33) United States of America
TRIKA, Sanjeev	(51) G06F 13/16	(51) G06F 13/42
KHAN, Jawad	G06F 11/07	(11) EP3622682
LOEWEN, Myron	G06F 13/42	(21) EP18798175.8
(31) 201815939432	G06F 3/06	(47) 13.09.2023
(32) 29.03.2018	G06F 13/38	(87) US2018028791
(33) United States of America	(11) EP3958134	15.11.2018
(51) G06F 12/1009	(21) EP21179762.6	(22) 23.04.2018
(11) EP3916567	(47) 13.09.2023	(54) PEER-TO-PEER COMMUNICATION FOR GRAPHICS PROCESSING UNITS
(21) EP20208142.8	(22) 16.06.2021	(73) Liquid Inc.
(47) 13.09.2023	(54) STORAGE DEVICE FOR HIGH SPEED LINK STARTUP AND STORAGE SYSTEM INCLUDING THE SAME	(72) BREAKSTONE, Jason
(22) 17.11.2020	(73) Samsung Electronics Co., Ltd.	KAZAKOV, German
(54) METHOD FOR PROCESSING PAGE FAULT BY PROCESSOR	(72) NAM, Dongwoo	LONG, Christopher R.
(73) Research & Business Foundation Sungkyunkwan University Seoul National University R & DB Foundation	SEO, Sungho	CANNATA, James Scott
(72) JEONG, Jin Kyu	NOH, Kwanwoo	(31) 201715848268
LEE, Jae Wook	SHIN, Myungsub	201762592859 P
LEE, Gyu Sun	JUNG, Haesung	201762502806 P
JIN, Wenjing	(31) 20200167668	(32) 20.12.2017
	20200073919	



30.11.2017	ÅKERUD, Daniel	(32) 28.08.2020
08.05.2017	(31) 201916250859	(33) China
(33) United States of America	(32) 17.01.2019	(51) G06F 16/9538
United States of America	(33) United States of America	G06F 3/048
United States of America	(51) G06F 16/25	G06Q 30/0601
(51) G06F 16/00	G06Q 10/063	G06T 11/60
(11) EP3602321	G06F 11/30	(11) EP3859566
(21) EP17772558.7	G06F 17/40	(21) EP21154648.6
(47) 13.09.2023	(11) EP3746895	(47) 13.09.2023
(87) US2017051333	(21) EP18702485.6	(22) 01.02.2021
21.03.2019	(47) 13.09.2023	(54) SYSTEMS AND METHODS FOR
(22) 13.09.2017	(87) EP2018052245	PRODUCT VISUALIZATION USING A
(54) EFFICIENTLY AUGMENTING IMAGES	08.08.2019	SINGLE-PAGE APPLICATION
WITH RELATED CONTENT	(22) 30.01.2018	(73) Leap Tools Inc.
(73) Google LLC	(54) METHOD FOR GENERATING	(72) SUSANU, Vlad Cristian
(72) YANG, Charles	PROCESS PROTOCOLS IN A	GHIAUS, Stefan-Alexandru
WANG, Louis	DISTRIBUTED IT INFRASTRUCTURE	(31) 202063199096 P
ROSENBERG, Charles J.	(73) Celonis SE	202016947817
(51) G06F 16/00	(72) KLENK, Martin	202016777697
G06F 16/11	(51) G06F 16/31	(32) 07.12.2020
G06F 16/18	G06F 16/22	19.08.2020
G06F 16/23	G06F 16/23	30.01.2020
G06F 16/25	(11) EP3236367	(33) United States of America
G06F 16/27	(21) EP17166790.0	United States of America
G06F 16/2455	(47) 13.09.2023	United States of America
(11) EP3465473	(22) 18.04.2017	(51) G06F 16/955
(21) EP17728981.6	(54) ENCODING PROGRAM, ENCODING	(11) EP3362917
(47) 13.09.2023	METHOD, ENCODING DEVICE,	(21) EP16856230.4
(87) US2017034939	RETRIEVAL PROGRAM, RETRIEVAL	(47) 13.09.2023
07.12.2017	METHOD, AND RETRIEVAL DEVICE	(87) US2016056934
(22) 30.05.2017	(73) Fujitsu Limited	20.04.2017
(54) VERSIONING AND NON-DISRUPTIVE	(72) Kataoka, Masahiro	(22) 14.10.2016
SERVICING OF IN-MEMORY UNITS IN	Matsumura, Ryo	(54) CONTENT MANAGEMENT ON
A DATABASE	Ozawa, Takaki	REMOTE DISPLAYS USING URL
(73) Oracle International Corporation	(31) 2016083168	REWRITING
(72) MULLICK, Atrayee	(32) 18.04.2016	(73) The Coca-Cola Company
MUKHERJEE, Niloy	(33) Japan	(72) JARNAGIN, Andrew
HASE, Sanket	(51) G06F 16/532	(31) 201562242552 P
LAHIRI, Tirthankar	(11) EP3828733	(32) 16.10.2015
LOAIZA, Juan	(21) EP20173873.9	(33) United States of America
(31) 201615169013	(47) 13.09.2023	(51) G06F 16/958
(32) 31.05.2016	(22) 11.05.2020	(11) EP3522034
(33) United States of America	(54) VISUAL SEARCH METHOD, VISUAL	(21) EP19155060.7
(51) G06F 16/2455	SEARCH DEVICE AND ELECTRICAL	(47) 13.09.2023
(11) EP3654203	DEVICE	(22) 10.02.2014
(21) EP19208828.4	(73) Baidu Online Network Technology	(54) THIRD PARTY APPLICATION
(47) 13.09.2023	(Beijing) Co., Ltd.	COMMUNICATION API
(22) 13.11.2019	(72) ZHANG, Liuqing	(73) Wix.com Ltd.
(54) AUTOMATIC ROUTING OF	LI, Guohong	(72) Abrahami, Yoav
CONNECTION REQUESTS IN	YU, Yongjia	(31) 201361762902 P
BUSINESS INTELLIGENCE (BI) TOOLS	QIU, Xin	(32) 10.02.2013
(73) SAP SE	(31) 201911204967	(33) United States of America
(72) KALIDINDI, Sowmya	(32) 29.11.2019	(51) G06F 18/10
G, Sathya	(33) China	G01M 3/28
SANKARAN, Vignesh	(51) G06F 16/9032	G01M 3/24
MAVINAKULI, Prasanna Bhat	H04L 9/40	F17D 5/02
(31) 201816189135	G06F 21/64	E03B 7/00
(32) 13.11.2018	(11) EP3961415	(11) EP3884253
(33) United States of America	(21) EP21182721.7	(21) EP19887281.4
(51) G06F 16/25	(47) 13.09.2023	(47) 13.09.2023
(11) EP3683698	(22) 30.06.2021	(87) AU2019000148
(21) EP20151639.0	(54) TRANSACTION CONFIRMATION	28.05.2020
(47) 13.09.2023	METHODS AND APPARATUSES IN	(22) 22.11.2019
(22) 14.01.2020	BLOCKCHAIN NETWORK	(54) METHOD AND SYSTEM TO ANALYSE
(54) DATA STORAGE METHOD AND	(73) Alipay (Hangzhou) Information	PIPELINE CONDITION
SYSTEM FOR DATASETS	Technology Co., Ltd.	(73) The University of Adelaide
(73) Snyk Sweden AB	(72) LIU, Xiaojian	(72) BOHORQUEZ AREVALO, Jessica Maria
(72) COCCIA, Julian	(31) 202010889845	SIMPSON, Angus

LAMBERT, Martin	DIGITAL MEDIA FILE, RECORDING	(54) CONTROL METHOD OF AN
ALEXANDER, Bradley James	DEVICE AND DISPLAY DEVICE	INDIVIDUAL OR GROUP OF
(31) 2018904476	(73) ETO MAGNETIC GmbH	INDIVIDUALS TO A CONTROL
(32) 23.11.2018	(72) BÖNISCH, Benjamin	POINT MANAGED BY A CONTROL
(33) Australia	(31) 102020120828	AUTHORITY
(51) G06F 18/2115	102020102161	(73) Idemia Identity & Security France
(11) EP3572980	(32) 06.08.2020	(72) CHASTEL, Pierre
(21) EP19176214.5	29.01.2020	BIARNES, Frédérique
(47) 13.09.2023	(33) Germany	(31) 1756558
(22) 23.05.2019	Germany	(32) 11.07.2017
(54) METHOD AND SYSTEM FOR	(51) G06F 21/31	(33) France
JOINT SELECTION OF A FEATURE	G06F 21/34	(51) G06F 21/32
SUBSET-CLASSIFIER PAIR FOR A	G06F 21/32	H04L 9/40
CLASSIFICATION TASK	H04L 9/40	G06N 3/08
(73) Tata Consultancy Services Limited	(11) EP3916593	G10L 17/02
(72) MUKHERJEE, Ayan	(21) EP20203943.4	G10L 17/18
SAHU, Ishan	(47) 13.09.2023	G10L 17/24
UKIL, Arijit	(22) 26.12.2013	G10L 17/26
BANDYOPADHYAY, Soma	(54) SYSTEM AND METHOD FOR	(11) EP4105797
PURI, Chetanya	EFFICIENTLY ENROLLING,	(21) EP22179355.7
SINGH, Rituraj	REGISTERING, AND	(47) 13.09.2023
PAL, Arpan	AUTHENTICATING WITH MULTIPLE	(22) 16.06.2022
BANERJEE, Rohan	AUTHENTICATION DEVICES	(54) AUTHENTICATION QUESTION
(31) 201821019386	(73) Nok Nok Labs, Inc.	IMPROVEMENT BASED ON VOCAL
(32) 23.05.2018	(72) Baghdasaryan, Davit	CONFIDENCE PROCESSING
(33) India	Lourie, Matt	(73) Capital One Services, LLC
(51) G06F 18/243	Wilson, Brendon J.	(72) EDWARDS, Joshua
G06F 16/901	Dholakia, Rajiv	MAIMAN, Tyler
G01N 33/493	(31) 201213730795	SEPTIMUS, David
(11) EP3138033	201213730791	MILLER, Daniel
(21) EP15786785.4	201213730780	CHAUDHARY, Viraj
(47) 13.09.2023	201213730776	RAPOWITZ, Samuel
(87) US2015028441	201213730761	(31) 202117349355
05.11.2015	(32) 28.12.2012	(32) 16.06.2021
(22) 30.04.2015	28.12.2012	(33) United States of America
(54) METHOD AND APPARATUS FOR	28.12.2012	(51) G06F 21/50
PERFORMING BLOCK RETRIEVAL ON	28.12.2012	(11) EP3590061
BLOCK TO BE PROCESSED OF URINE	28.12.2012	(21) EP18710947.5
SEDIMENT IMAGE	(33) United States of America	(47) 13.09.2023
(73) Siemens Healthcare Diagnostics Inc.	United States of America	(87) US2018019049
(72) SHEN, Tian	United States of America	07.09.2018
XU, Juan	United States of America	(22) 21.02.2018
ZHANG, Xiaofan	United States of America	(54) MANAGING DATA ENCRYPTING
(31) 201410183615	(51) G06F 21/31	APPLICATION
(32) 30.04.2014	H04W 12/065	(73) CA, Inc.
(33) China	H04W 12/61	(72) LI, Qing
(51) G06F 21/10	H04W 12/63	CHEN, Joseph
H04N 21/83	H04W 12/68	UMLAND, Torrey
G06F 21/32	H04W 12/69	STAHL, Dave
H04L 9/32	(11) EP4054147	GRIGORYAN, Tigran
H04N 21/2743	(21) EP21382175.4	CHEN, Min, Hao
H04N 21/278	(47) 13.09.2023	(31) 201715446956
H04N 21/414	(22) 02.03.2021	(32) 01.03.2017
H04N 21/4415	(54) METHOD AND SYSTEM FOR	(33) United States of America
H04N 21/45	AUTHENTICATING USERS OF	(51) G06F 21/52
H04N 21/658	MOBILE COMMUNICATION DEVICES	G05B 19/05
H04N 21/8352	THROUGH MOBILITY TRACES	(11) EP4078414
H04N 21/4223	(73) Telefonica Cibersecurity & Cloud Tech	(21) EP20817291.6
(11) EP4097611	S.L.U.	(47) 13.09.2023
(21) EP21704426.2	(72) DE LOS SANTOS VILCHEZ, Sergio	(87) EP2020084087
(47) 13.09.2023	KOURTELLIS, Nicolas	24.06.2021
(87) EP2021051962	BIANZINO, Aruna, Prem	(22) 01.12.2020
05.08.2021	(51) G06F 21/32	(54) MONITORING UNIT AND METHOD
(22) 28.01.2021	G06F 21/34	FOR MONITORING THE RESOURCES
(54) METHOD FOR ASSIGNING A	(11) EP3428822	BEING USED BY DRIVERS OF A
CREATOR TO A DIGITAL MEDIA FILE	(21) EP18305937.7	DEVICE ACCESS DEVICE
AND/OR FOR DISTRIBUTING THE	(47) 13.09.2023	(73) Endress+Hauser Process Solutions AG
	(22) 11.07.2018	(72) MAYER, Michael

HÖFERLIN, Wolfgang	(31) 202016739092	(22) 15.12.2019
(31) 102019135293	(32) 09.01.2020	(54) SYSTEM AND DEVICES FOR
(32) 19.12.2019	(33) United States of America	MANAGEMENT OF TIMED EVENT
(33) Germany	(51) G06K 7/00	ADMISSIONS
(51) G06F 21/56	G06K 17/00	(73) Schueler, Cody James
H04L 9/40	G06Q 10/087	Schueler, Luke Maleroy
(11) EP3346663	G06Q 50/28	Yang (Foo), Chia (Carl)
(21) EP17165358.7	G06Q 30/0645	(72) Schueler, Cody James
(47) 13.09.2023	(11) EP3836000	Schueler, Luke Maleroy
(22) 06.04.2017	(21) EP20000404.2	Yang (Foo), Chia (Carl)
(54) APPARATUS, SYSTEM, AND METHOD	(47) 13.09.2023	(31) 201816231537
FOR ACCELERATING SECURITY	(22) 06.11.2020	(32) 23.12.2018
INSPECTIONS USING INLINE	(54) SYSTEM FOR IDENTIFYING,	(33) United States of America
PATTERN MATCHING	ASSIGNING AND COUNTING	(51) G06K 7/14
(73) Juniper Networks, Inc.	STACKED CONTAINERS	G06K 7/10
(72) JOSHI, Mohit	(73) Tanzer Maschinenbau Srl	G06K 19/06
KUSHWAHA, Deepak	(72) Gufler, Matthias	G06K 19/08
TUTLIANI, Puneet	Fliri, Adrian	(11) EP3278266
(31) 201715400922	Tanzer, Peter	(21) EP16774056.2
(32) 06.01.2017	(31) 201900023604	(47) 13.09.2023
(33) United States of America	(32) 11.12.2019	(87) US2016024884
(51) G06F 21/57	(33) Italy	06.10.2016
G06F 8/61	(51) G06K 7/00	(22) 30.03.2016
G06Q 20/20	G06K 19/077	(54) A TWO DIMENSIONAL BARCODE
G06Q 20/32	(11) EP4033396	WITH DYNAMIC ENVIRONMENTAL
G06Q 20/38	(21) EP22162033.9	DATA SYSTEM, METHOD, AND
(11) EP3584732	(47) 13.09.2023	APPARATUS
(21) EP18893709.8	(22) 26.05.2021	(73) Temptime Corporation
(47) 13.09.2023	(54) INTERFERENCE SUPPRESSION	(72) PRUSIK, Thaddeus
(87) CN2018088367	APPARATUS AND INTERFERENCE	ABDO, Mohannad
04.07.2019	SUPPRESSION SYSTEM	HOHBERGER, Clive
(22) 25.05.2018	(73) DENSO WAVE INCORPORATED	(31) 201562140258 P
(54) APPLICATION MANAGEMENT	(72) MUTO, Eiji	(32) 30.03.2015
METHOD FOR TERMINAL,	ENOMOTO, Kohei	(33) United States of America
APPLICATION SERVER AND	MASUDA, Yusuke	(51) G06K 15/10
TERMINAL	(31) 2020103618	B41J 2/21
(73) China Unionpay Co., Ltd.	(32) 16.06.2020	B41J 19/14
(72) CHEN, Chengqian	(33) Japan	(11) EP3800583
ZHOU, Yu	(51) G06K 7/10	(21) EP19201510.5
GUO, Wei	(11) EP3872685	(47) 13.09.2023
(31) 201711449381	(21) EP21155457.1	(22) 04.10.2019
(32) 27.12.2017	(47) 13.09.2023	(54) METHOD OF PRINTING INK
(33) China	(22) 05.02.2021	(73) Canon Production Printing Holding B.V.
(51) G06F 21/57	(54) TAG READER	(72) GERRITS, Carolus E.P.
G06F 21/55	(73) Toshiba TEC Kabushiki Kaisha	(51) G06K 19/02
(11) EP4174697	(72) Suzuki, Shigeaki	G06K 19/077
(21) EP21205972.9	(31) 2020029096	(11) EP4085378
(47) 13.09.2023	(32) 25.02.2020	(21) EP20828034.7
(22) 02.11.2021	(33) Japan	(47) 13.09.2023
(54) SYSTEM, DEVICE AND METHOD FOR	(51) G06K 7/10	(87) FR2020052254
ENABLING IDENTIFICATION WHEN A	A45C 13/30	08.07.2021
SECURITY SENSITIVE FUNCTION HAS	G09F 3/00	(22) 02.12.2020
BEEN PREVIOUSLY ENABLED	G06Q 10/02	(54) METAL CHIP CARD ABLE TO
(73) Axis AB	G06Q 30/06	FUNCTION CONTACTLESSLY
(72) Keskikangas, Axel	G07C 9/00	(73) IDEMIA France
Nilsson, Martin	G06K 19/077	(72) ALI, Ahmed
(51) G06F 21/62	G06Q 10/06	GROULT, Tiphaine
H04L 9/00	G06Q 20/20	(31) 1915760
H04L 9/40	G06Q 20/32	(32) 31.12.2019
H04L 9/32	G07F 9/00	(33) France
(11) EP3848841	G06Q 20/14	(51) G06K 19/02
(21) EP21150793.4	G06Q 20/12	G07C 9/00
(47) 13.09.2023	G06Q 10/0639	G06F 21/32
(22) 08.01.2021	(11) EP3897275	G07C 9/27
(54) ABILITY TO FORGET IN BLOCKCHAIN	(21) EP19901548.8	G07C 9/22
(73) ParallelChain Lab Private Limited	(47) 13.09.2023	H04L 9/32
(72) HUANG, Ian Yuan Yuan	(87) US2019066425	(11) EP3646247
MA, Eric Zhiqiang	02.07.2020	(21) EP18737395.6

(47) 13.09.2023	(31) 201406046	(11) EP3724824
(87) GB2018051761	(32) 03.04.2014	(21) EP17818533.6
03.01.2019	(33) United Kingdom	(47) 13.09.2023
(22) 22.06.2018	(51) G06N 3/063	(87) EP2017083005
(54) USER AUTHENTICATION BASED ON	G06F 17/15	20.06.2019
RFID-ENABLED IDENTITY DOCUMENT	G06F 17/16	(22) 15.12.2017
AND GESTURE CHALLENGE-	(11) EP4133418	(54) METHODS AND APPARATUSES FOR
RESPONSE PROTOCOL	(21) EP21702442.1	INFERENCING USING A NEURAL
(73) Cryptomathic Ltd	(47) 13.09.2023	NETWORK
(72) LANDROCK, Morten	(87) EP2021051906	(73) Nokia Technologies Oy
ALLEN, Christopher	14.10.2021	(72) TSENG, Vincent
(31) 201710504	(22) 28.01.2021	BHATTACHARYA, Sourav
(32) 30.06.2017	(54) NEURAL NETWORK WEIGHT	LANE, Nicholas D
(33) United Kingdom	DISTRIBUTION FROM A GRID OF	(51) G06N 3/067
(51) G06K 19/06	MEMORY ELEMENTS	H04B 10/516
G06Q 10/087	(73) International Business Machines	H04B 10/63
G06Q 10/0833	Corporation	(11) EP4162407
G06K 17/00	(72) SAWADA, Jun	(21) EP22727245.7
(11) EP3549078	MODHA, Dharmendra	(47) 13.09.2023
(21) EP17817559.2	CASSIDY, Andrew, Stephen	(87) AT2022060181
(47) 13.09.2023	ARTHUR, John, Vernon	01.12.2022
(87) US2017063902	NAYAK, Tapan	(22) 27.05.2022
07.06.2018	ORTEGA OTERO, Carlos	(54) OPTICAL ARRAY FOR EMULATING A
(22) 30.11.2017	TABA, Brian, Seisho	NEURAL NETWORK
(54) PROCESS FOR RFID CERTIFICATION	AKOPYAN, Filipp	(73) AIT Austrian Institute of Technology
OF CARTON CONTENT	DATTA, Pallab	GmbH
(73) Avery Dennison Retail Information	(31) 202016842035	(72) SCHRENK, Bernhard
Services LLC	(32) 07.04.2020	(31) 504292021
(72) ROTH, Mark W.	(33) United States of America	(32) 28.05.2021
(31) 201662428645 P	(51) G06N 3/063	(33) Austria
(32) 01.12.2016	G06N 3/0495	(51) G06N 3/08
(33) United States of America	G06N 3/048	G06N 3/04
(51) G06K 19/077	G06F 7/544	(11) EP3657401
G06K 19/07	G06F 17/16	(21) EP17921332.7
(11) EP4002211	(11) EP3637327	(47) 13.09.2023
(21) EP21207205.2	(21) EP18818258.8	(87) JP2017029086
(47) 13.09.2023	(47) 13.09.2023	14.02.2019
(22) 09.11.2021	(87) CN2018090901	(22) 10.08.2017
(54) MICROCIRCUIT BOARD	20.12.2018	(54) IDENTIFICATION/CLASSIFICATION
(73) STMicroelectronics (Rousset) SAS	(22) 12.06.2018	DEVICE AND IDENTIFICATION/
(72) ROUY, Olivier	(54) COMPUTING DEVICE AND METHOD	CLASSIFICATION METHOD
(31) 2011736	(73) Shanghai Cambricon Information	(73) Mitsubishi Electric Corporation
(32) 16.11.2020	Technology Co., Ltd	(72) SUGIHARA, Kenya
(33) France	(72) WANG, Zai	(51) G06N 5/02
(51) G06K 19/077	ZHOU, Shengyuan	G06N 20/00
G06K 19/07	DU, Zidong	G06F 21/50
H05B 45/30	CHEN, Tianshi	G06F 21/51
(11) EP4002212	HU, Shuai	G06F 21/53
(21) EP21209456.9	ZHOU, Xuda	G06F 21/54
(47) 13.09.2023	LIU, Shaoli	G06F 21/55
(22) 22.11.2021	(31) 201710495795	G06F 21/56
(54) MICROCIRCUIT BOARD	201710483182	G06F 21/57
(73) STMicroelectronics (Rousset) SAS	201710474297	G06F 16/33
(72) ROUY, Olivier	201710473955	G06F 8/30
(31) 2012008	201710441977	H04L 9/40
(32) 23.11.2020	(32) 26.06.2017	(11) EP3985576
(33) France	22.06.2017	(21) EP21208409.9
(51) G06M 1/04	21.06.2017	(47) 13.09.2023
(11) EP3127048	21.06.2017	(22) 04.05.2016
(21) EP15715947.6	13.06.2017	(54) METHOD AND DEVICE FOR
(47) 13.09.2023	(33) China	MANAGING SECURITY IN A
(87) US2015023534	China	COMPUTER NETWORK
08.10.2015	China	(73) Hasan, Syed Kamran
(22) 31.03.2015	China	(72) Hasan, Syed Kamran
(54) DOSE INDICATOR FOR A METERED	China	(31) 201662323657 P
DOSE INHALER	(51) G06N 3/063	201662307558 P
(73) Kindeva Drug Delivery L.P.	G06N 3/10	201662294258 P
(72) HOWGILL, Stephen, J.	G06N 3/02	201662286437 P

201562220914 P	Geheb,, Frederick, J.	(22) 07.05.2021
201562210546 P	(31) 201161434812 P	(54) ENHANCED ROBOT FLEET
201562206675 P	32267510 P	NAVIGATION AND SEQUENCING
201562198091 P	(32) 20.01.2011	(73) Accenture Global Solutions Limited
201562156884 P	09.04.2010	(72) AKIONA, Nicholas
(32) 16.04.2016	(33) United States of America	OLADIRAN, Oyinlola
13.03.2016	United States of America	(31) 202063021877 P
11.02.2016	(51) G06Q 10/06	(32) 08.05.2020
24.01.2016	G06F 9/455	(33) United States of America
18.09.2015	G06G 7/62	(51) G06Q 10/0635
27.08.2015	(11) EP2850566	G05B 17/02
18.08.2015	(21) EP13791656.5	H04L 12/28
28.07.2015	(47) 13.09.2023	(11) EP3912111
04.05.2015	(87) IN2013000191	(21) EP20703674.0
(33) United States of America	21.11.2013	(47) 13.09.2023
United States of America	(22) 22.03.2013	(87) US2020013298
United States of America	(54) METHOD AND SYSTEM FOR	23.07.2020
United States of America	DETERMINING AND IMPLEMENTING A	(22) 13.01.2020
United States of America	VIABLE CONTAINMENT DESIGN OF A	(54) SYSTEM AND METHOD FOR
United States of America	DATA CENTER	SIMULATING SYSTEM OPERATION
United States of America	(73) Tata Consultancy Services Limited	CONDITIONS
United States of America	(72) SINGH, Umesh	(73) Siemens Industry, Inc.
United States of America	SINGH, Amarendra K.	(72) CASILLI, Chris
United States of America	SIVASUBRAMANIAM, Anand	SONGKAKUL, Pornsak
(51) G06N 99/00	(31) 1527MU2012	(31) 201916251382
G06F 21/12	(32) 18.05.2012	(32) 18.01.2019
G06F 21/51	(33) India	(33) United States of America
(11) EP3103070	(51) G06Q 10/06	(51) G06Q 10/08
(21) EP15708931.9	G06Q 10/08	(11) EP3767565
(47) 13.09.2023	(11) EP3867841	(21) EP19186582.3
(87) US2015014769	(21) EP19801968.9	(47) 13.09.2023
13.08.2015	(47) 13.09.2023	(22) 16.07.2019
(22) 06.02.2015	(87) IB2019058778	(54) METHOD FOR SUPPLYING AN
(54) APPLICATION EXECUTION CONTROL	23.04.2020	ORDERED OBJECT TO AN AT LEAST
UTILIZING ENSEMBLE MACHINE	(22) 15.10.2019	PARTIALLY AUTONOMOUS MOTOR
LEARNING FOR DISCERNMENT	(54) SYSTEM FOR CONTROLLING AND	VEHICLE
(73) Cylance Inc.	MANAGING A PROCESS WITHIN AN	(73) Volkswagen Aktiengesellschaft
(72) PERMEH, Ryan	ENVIRONMENT USING ARTIFICIAL	(72) Bader, Viktor
SOEDER, Derek A.	INTELLIGENCE TECHNIQUES AND	(51) G06Q 10/20
CHISHOLM, Glenn	RELATIVE METHOD	H04M 1/24
RUSSELL, Braden	(73) Laser Navigation S.r.l.	H04M 1/02
GOLOMB, Gary	(72) NAVONI, Roberto	(11) EP3891970
WOLFF, Matthew	(31) 201800009442	(21) EP19783356.9
MCCLURE, Stuart	(32) 15.10.2018	(47) 13.09.2023
(31) 201461937379 P	(33) Italy	(87) FI2019050669
(32) 07.02.2014	(51) G06Q 10/06	11.06.2020
(33) United States of America	G06Q 10/08	(22) 19.09.2019
(51) G06Q 10/00	B65G 1/04	(54) DIAGNOSIS OF MOBILE DEVICES
G06Q 50/22	(11) EP4044083	USING BUILT-IN ACTUATORS AND
A61N 1/372	(21) EP22166535.9	SENSORS
(11) EP3543920	(47) 13.09.2023	(73) Blaccco Technology Group IP Oy
(21) EP19172265.1	(22) 23.02.2018	(72) SAIRIALA, Timo
(47) 13.09.2023	(54) INVENTORY MANAGEMENT SYSTEM	GERDT, Sami
(22) 09.04.2011	AND METHOD	VALTONEN, Markku
(54) SYSTEMS AND METHODS FOR	(73) WALMART APOLLO, LLC	(31) 20186053
EMS DEVICE COMMUNICATIONS	(72) LERT, John G., Jr.	(32) 05.12.2018
INTERFACE	FOSNIGHT, William J.	(33) Finland
(73) ZOLL Medical Corporation	(31) 201762463017 P	(51) G06Q 20/00
(72) Martin, Michael, Scott	(32) 24.02.2017	G06Q 20/02
Ashmore, Chad	(33) United States of America	G06Q 20/40
Deines, Eric, A.	(51) G06Q 10/063	(11) EP3651096
Freeman, Gary, A.	G06Q 10/08	(21) EP19205448.4
Helmick, Joseph, L.	B25J 9/16	(47) 13.09.2023
Kaib, Thomas E.	G05D 1/02	(22) 31.03.2011
Rattanni, Richard, A.	G05B 19/418	(54) METHODS AND SYSTEMS FOR
Reid, C.Shane	(11) EP3907679	VERIFYING TRANSACTIONS
Soller, Jeremy, Ryan	(21) EP21172871.2	(73) ISX IP Ltd
Volpe, Shane, S.	(47) 13.09.2023	(72) KARANTZIS, Nickolas, John
Ruggiero,, Gary		

(31) 2010100533 34974110 P 32059710 P	(87) US2018030225 01.11.2018	ZHAO, Xiaona CHANG, Xinmiao
(32) 28.05.2010 28.05.2010 02.04.2010	(22) 30.04.2018 (54) SYSTEMS AND METHODS FOR POINT OF SALE DATA SYNCHRONIZATION	(31) 201810016329 201711227577
(33) Australia United States of America United States of America	(73) Aptos, LLC (72) JOHNSON, David BISSONETTE, Terry	(32) 08.01.2018 29.11.2017 (33) China China
(51) G06Q 20/06 G06Q 20/36 G06Q 20/38 G06F 21/64 H04W 4/70 G06Q 10/06	(31) 201762491763 P (32) 28.04.2017 (33) United States of America	(51) G06Q 30/06 (11) EP2755181 (21) EP12836773.7 (47) 13.09.2023 (87) JP2012058894 04.04.2013
(11) EP3491600 (21) EP17746201.7 (47) 13.09.2023 (87) IB2017054423 01.02.2018	(31) EP3652698 (21) EP18832248.1 (47) 13.09.2023 (87) IB2018055218 17.01.2019	(22) 02.04.2012 (54) INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, INFORMATION PROCESSING PROGRAM, AND RECORDING MEDIUM (73) Rakuten Group, Inc. (72) YOKOMICHI Takashi (31) 2011215973 (32) 30.09.2011 (33) Japan
(54) BLOCKCHAIN-IMPLEMENTED METHOD AND SYSTEM	(22) 13.07.2018 (54) LOW-COST COMPUTERIZED KIOSKS FOR REMOTE COLLECTION OF ELECTRONIC DEVICES FOR VALUE	(51) G06T 1/00 A61B 5/1172 A61B 5/00 A61B 5/11 G06V 40/12 F21V 8/00 G06V 40/13
(73) nChain Licensing AG (72) ALLEN, Gavin (31) 201613148 201613188 201613177	(73) A La Carte Media Inc. (72) DION, Dominique MASTRONARDI, Tony	(11) EP3998574 (21) EP20840244.6 (47) 13.09.2023 (87) JP2020020226 21.01.2021
(32) 29.07.2016 29.07.2016 29.07.2016	(31) 201762532635 P (32) 14.07.2017 (33) United States of America	(22) 22.05.2020 (54) ELECTRONIC DEVICE (73) Sony Group Corporation (72) AMANO, Toru TAKAHASHI, Teppei ENOKIDO, Toshio
(33) United Kingdom United Kingdom United Kingdom	(51) G06Q 20/32 G07F 7/08 G06Q 20/34	(31) 2019129763 (32) 12.07.2019 (33) Japan
(51) G06Q 20/06 G06Q 20/38 H04L 9/40 H04L 9/00 G06F 21/62 G06F 21/64 H04L 9/32	(11) EP2987123 (21) EP14792964.0 (47) 13.09.2023 (87) US2014061629 30.04.2015	(51) G06T 1/20 (11) EP3712838 (21) EP20162648.8 (47) 13.09.2023 (22) 12.03.2020 (54) ELECTRONIC DEVICE FOR PROCESSING IMAGES (73) STMicroelectronics (Grenoble 2) SAS STMicroelectronics (Rousset) SAS
(11) EP3779755 (21) EP19191861.4 (47) 13.09.2023 (22) 14.08.2019	(54) FACILITATING SECURE TRANSACTIONS USING A CONTACTLESS INTERFACE (73) Accenture Global Services Limited	(72) PINATEL, Christophe MAZER, Serge FERRAND, Olivier
(54) A COMPUTER-IMPLEMENTED METHOD FOR CROSS-CHAIN- INTEROPERABILITY	(72) RAINA, Sunil SOMANI, Avishek JENNINGS, Michael	(31) 1902966 (32) 22.03.2019 (33) France
(73) FUJITSU LIMITED (72) MUELLER, Jonas	(31) 201361894387 P (32) 22.10.2013 (33) United States of America	(51) G06T 5/00 B23K 26/00 B42D 25/00 B41M 3/14 B41M 5/24 B42D 25/41
(51) G06Q 20/06 H04W 12/06	(51) G06Q 20/34 G06Q 20/32 G06Q 20/22 G06Q 20/02 G06Q 20/36	(11) EP3488411
(11) EP3724841 (21) EP17816733.4 (47) 13.09.2023 (87) EP2017082451 20.06.2019	(11) EP3693911 (21) EP18882735.6 (47) 13.09.2023 (87) CN2018117178 06.06.2019	(73) STMicroelectronics (Grenoble 2) SAS STMicroelectronics (Rousset) SAS
(22) 12.12.2017	(22) 23.11.2018 (54) CARD LINKING METHOD AND TERMINAL	(72) PINATEL, Christophe MAZER, Serge FERRAND, Olivier
(54) PROVIDING NETWORK ACCESS USING BLOCKCHAIN PAYMENTS	(73) Huawei Technologies Co., Ltd. (72) DING, Jianxin	(31) 1902966 (32) 22.03.2019 (33) France
(73) Lenovo (Singapore) Pte. Ltd. (72) SALKINTZIS, Apostolis		(51) G06T 5/00 B23K 26/00 B42D 25/00 B41M 3/14 B41M 5/24 B42D 25/41
(51) G06Q 20/20 H04L 67/02 H04L 67/104		(11) EP3488411
(11) EP3616146 (21) EP18792119.2 (47) 13.09.2023		

- (21) EP17754735.3  
(47) 13.09.2023  
(87) FR2017052004  
25.01.2018  
(22) 21.07.2017  
(54) IMPROVING A DEPTH IMAGE  
SUBJECT TO A SHADOW EFFECT  
(73) IDEMIA France  
(72) VANDROUX, Coralie  
BERTHE, Benoit  
(31) 1657064  
(32) 22.07.2016  
(33) France
- 
- (51) G06T 5/00  
G06T 5/10  
G06T 5/50  
(11) EP3566202  
(21) EP17832868.8  
(47) 13.09.2023  
(87) US2017068596  
12.07.2018  
(22) 27.12.2017  
(54) IMAGE NOISE REDUCTION USING  
SPECTRAL TRANSFORMS  
(73) Teledyne Flir, LLC  
(72) HOGASTEN, Nicholas  
(31) 201762441902 P  
(32) 03.01.2017  
(33) United States of America
- 
- (51) G06T 5/00  
H04N 5/21  
(11) EP3881280  
(21) EP18945063.8  
(47) 13.09.2023  
(87) CN2018125755  
02.07.2020  
(22) 29.12.2018  
(54) METHODS AND SYSTEMS FOR IMAGE  
PROCESSING  
(73) Zhejiang Dahua Technology Co., Ltd.  
(72) LING, Chen  
MA, Xin  
FANG, Wei
- 
- (51) G06T 7/00  
(11) EP2965285  
(21) EP14712772.4  
(47) 13.09.2023  
(87) IB2014059248  
12.09.2014  
(22) 26.02.2014  
(54) SCAN REGION DETERMINING  
APPARATUS  
(73) Koninklijke Philips N.V.  
(72) SENEGAS, Julien  
SAALBACH, Axel  
BERGTHOLDT, Martin  
NETSCH, Thomas  
MAZURKEWITZ, Peter  
(31) 201361773429 P  
(32) 06.03.2013  
(33) United States of America
- 
- (51) G06T 7/00  
A61B 5/055  
A61B 6/00  
G16H 30/40  
G16H 40/20  
G16H 40/63  
(11) EP3533029
- (21) EP17811448.4  
(47) 13.09.2023  
(87) EP2017077307  
03.05.2018  
(22) 25.10.2017  
(54) DEVICE AND METHOD FOR QUALITY  
ASSESSMENT OF MEDICAL IMAGE  
DATASETS  
(73) Koninklijke Philips N.V.  
(72) BUELOW, Thomas  
YOUNG, Stewart  
NORDHOFF, Tanja  
HARDER, Tim, Philipp  
BUHK, Jan-Hendrik  
(31) 16195419  
(32) 25.10.2016  
(33) European Patent Office (EPO)
- 
- (51) G06T 7/207  
G06T 7/238  
G06T 7/269  
(11) EP3785225  
(21) EP19731361.2  
(47) 13.09.2023  
(87) US2019028732  
31.10.2019  
(22) 23.04.2019  
(54) EFFICIENT PARALLEL OPTICAL  
FLOW ALGORITHM AND GPU  
IMPLEMENTATION  
(73) Snap Inc.  
(72) ANILKUMAR, Shah Tanmay  
HARE, Samuel Edward  
WANG, Guohui  
(31) 201862661958 P  
(32) 24.04.2018  
(33) United States of America
- 
- (51) G06T 7/521  
G01B 11/25  
G06T 7/55  
A61B 1/00  
A61B 1/06  
(11) EP3465617  
(21) EP17726743.2  
(47) 13.09.2023  
(87) US2017031707  
07.12.2017  
(22) 09.05.2017  
(54) SYSTEM AND METHOD FOR 3D  
SCENE RECONSTRUCTION WITH  
DUAL COMPLEMENTARY PATTERN  
ILLUMINATION  
(73) Verily Life Sciences LLC  
(72) GANAPATI, Vidya  
REPHAELI, Eden  
(31) 201715487114  
201662344789 P  
(32) 13.04.2017  
02.06.2016  
(33) United States of America  
United States of America
- 
- (51) G06T 7/60  
(11) EP3017426  
(21) EP14735956.6  
(47) 13.09.2023  
(87) EP2014064268  
08.01.2015  
(22) 03.07.2014
- (54) TRAILER PARAMETER  
IDENTIFICATION SYSTEM  
(73) Jaguar Land Rover Limited  
(72) SINGH, Harpreet  
BRADLEY, Andrew  
(31) 201312038  
(32) 04.07.2013  
(33) United Kingdom
- 
- (51) G06T 11/00  
(11) EP3690819  
(21) EP19154875.9  
(47) 13.09.2023  
(22) 31.01.2019  
(54) IMAGE PROCESSING DEVICE  
AND METHOD, AND MEDICAL  
OBSERVATION DEVICE COMPRISING  
SUCH AN IMAGE PROCESSING  
DEVICE, USING AN INTENSITY  
OR BRIGHTNESS-DEPENDENT  
VARIATION OF A PSEUDOCOLOR  
PATTERN CHARACTERISTIC  
(73) Leica Instruments (Singapore) Pte. Ltd.  
(72) Themelis, George
- 
- (51) G06T 11/00  
(11) EP4014206  
(21) EP20772099.6  
(47) 13.09.2023  
(87) IB2020057673  
25.02.2021  
(22) 14.08.2020  
(54) AN X-RAY TOMOGRAPHY SYSTEM  
AND METHOD  
(73) Adaptix Ltd  
(72) SOLOVIEV, Vadim  
(31) 201918798  
201911759  
(32) 19.12.2019  
16.08.2019  
(33) United Kingdom  
United Kingdom
- 
- (51) G06T 11/20  
(11) EP3847626  
(21) EP19749014.7  
(47) 13.09.2023  
(87) US2019039647  
12.03.2020  
(22) 28.06.2019  
(54) RENDERING OVERSIZED GLYPHS TO  
A MONOSPACE GRID  
(73) Microsoft Technology Licensing, LLC  
(72) IMMS, Daniel John  
(31) 201816125458  
(32) 07.09.2018  
(33) United States of America
- 
- (51) G06T 15/00  
G06T 11/40  
G06T 15/40  
(11) EP3754612  
(21) EP20180988.6  
(47) 13.09.2023  
(22) 19.06.2020  
(54) PRIMITIVE FRAGMENT PROCESSING  
IN THE RASTERIZATION PHASE OF A  
GRAPHICS PROCESSING SYSTEM  
(73) Imagination Technologies Limited  
(72) BRIGG, Robert  
BELLI, Lorenzo  
(31) 201908807

201908812	OWYANG, Ethan Carl	(54) METHOD AND SYSTEM FOR ASSESSING STAIN QUALITY FOR IN-SITU HYBRIDIZATION AND IMMUNOHISTOCHEMISTRY
(32) 19.06.2019	(31) 202063057943 P	(73) Ventana Medical Systems, Inc.
19.06.2019	(32) 29.07.2020	(72) GARSHA, Karl
(33) United Kingdom	(33) United States of America	OTTER, Michael
United Kingdom	(51) G06V 10/141	STEVENS, Benjamin
(51) G06T 17/00	G06V 40/13	TAFT, Jefferson
B33Y 50/00	(11) EP3217317	VENTURA, Frank
(11) EP3714436	(21) EP17157353.8	(31) 201662328041 P
(21) EP18804065.3	(47) 13.09.2023	201562166155 P
(47) 13.09.2023	(22) 22.02.2017	(32) 27.04.2016
(87) GB2018053229	(54) BIOMETRIC AUTHENTICATION DEVICE, BIOMETRIC AUTHENTICATION METHOD, AND BIOMETRIC AUTHENTICATION PROGRAM	26.05.2015
31.05.2019	(73) FUJITSU LIMITED	(33) United States of America
(22) 07.11.2018	(72) Aoki, Takahiro	United States of America
(54) A SYSTEM AND METHOD OF 3D PRINT MODELLING	(31) 2016047496	(51) G06V 10/42
(73) Sony Interactive Entertainment Inc.	(32) 10.03.2016	G06V 10/82
(72) BIGOS, Andrew James	(33) Japan	(11) EP3830754
(31) 201719403	(51) G06V 10/25	(21) EP19739223.6
(32) 22.11.2017	G06V 10/26	(47) 13.09.2023
(33) United Kingdom	G06V 10/46	(87) EP2019067840
(51) G06T 19/00	G06V 10/48	06.02.2020
G06F 3/01	G06V 10/75	(22) 03.07.2019
G06T 7/00	G06V 10/82	(54) METHOD AND DEVICE FOR DETERMINING AN EXPLANATION MAP
H04N 13/00	G06V 10/764	(73) Robert Bosch GmbH
A63F 13/00	G06V 10/776	(72) WAGNER, Joerg
A63F 13/424	G06V 10/80	KOEHLER, Jan Mathias
A63F 13/5255	G06T 7/11	GINDELE, Tobias
A63F 13/5372	G06N 3/08	HETZEL, Leon
A63F 13/54	G06N 3/045	WIEDEMER, Jakob Thaddaeus
A63F 13/65	(11) EP3663982	(31) 102018213052
G02B 27/01	(21) EP18210459.6	(32) 03.08.2018
G02B 27/00	(47) 13.09.2023	(33) Germany
G06F 3/16	(22) 05.12.2018	(51) G06V 10/44
H04R 1/10	(54) METHOD TO IMPROVE THE SEGMENTATION PERFORMANCE OF A COMPUTER IMPLEMENTED DEEP LEARNING ALGORITHM	G06V 40/20
H04R 1/40	(73) AGFA NV	(11) EP2767889
H04R 3/00	(72) VANDERSMISSEN, Eva	(21) EP12839526.6
H04R 5/02	(51) G06V 10/26	(47) 13.09.2023
G06F 3/0346	G06V 40/12	(87) KR2012008287
G06F 3/04815	(11) EP2500863	18.04.2013
G06F 3/04842	(21) EP10829797.9	(22) 12.10.2012
(11) EP3590097	(47) 13.09.2023	(54) APPARATUS AND METHOD FOR RECOGNIZING MOTION BY USING EVENT-BASED VISION SENSOR
(21) EP18760949.0	(87) JP2010067553	(73) Samsung Electronics Co., Ltd.
(47) 13.09.2023	19.05.2011	(72) LEE, Jun Haeng
(87) US2018020020	(22) 06.10.2010	RYU, Hyun Surk
07.09.2018	(54) FAKE-FINGER DETERMINATION DEVICE, FAKE-FINGER DETERMINATION METHOD AND FAKE-FINGER DETERMINATION PROGRAM	PARK, Keun Joo
(22) 27.02.2018	(73) NEC Corporation	(31) 20110105341
(54) VIRTUAL AND REAL OBJECT RECORDING IN MIXED REALITY DEVICE	(72) MONDEN, Akira	(32) 14.10.2011
(73) Magic Leap, Inc.	(31) 2009256977	(33) Korea (Republic)
(72) HUANG, Ziqiang	(32) 10.11.2009	(51) G06V 10/82
(31) 201762464757 P	(33) Japan	G06V 20/56
(32) 28.02.2017	(51) G06V 10/28	G06V 20/64
(33) United States of America	G06V 20/69	G01C 21/36
(51) G06V 10/00	(11) EP3304415	G01C 21/28
(11) EP3945457	(21) EP16725132.1	G06T 7/579
(21) EP21180940.5	(47) 13.09.2023	G06T 7/73
(47) 13.09.2023	(87) EP2016061859	(11) EP3324334
(22) 22.06.2021	01.12.2016	(21) EP17195184.1
(54) SYSTEMS AND METHODS FOR DETERMINING A STATE OF A STOWAGE BIN ASSEMBLY WITHIN AN INTERNAL CABIN OF A VEHICLE	(22) 25.05.2016	(47) 13.09.2023
(73) The Boeing Company		(22) 06.10.2017
(72) RADHAKRISHNAN, Venkatesh Babu		(54) DETECTION OF INVARIANT FEATURES FOR LOCALIZATION
RAKESH, Mugaludi Ramesha		(73) HERE Global B.V.
SAVADAMUTHU, Madhanmohan		(72) KWANT, Richard
TRIPATHI, Shubham		



MITTAL, Anish	G06T 7/00	(33) Korea (Republic)
ANIRUDH, Viswanathan	G06T 7/60	Korea (Republic)
(31) 201615355727	(11) EP3654276	(51) G06V 40/16
(32) 18.11.2016	(21) EP17917502.1	G06V 40/10
(33) United States of America	(47) 13.09.2023	G06V 10/82
(51) G06V 20/50	(87) JP2017038455	G06V 10/44
(11) EP3944135	17.01.2019	G06V 10/764
(21) EP21181680.6	(22) 25.10.2017	G06V 10/26
(47) 13.09.2023	(54) ANALYSIS DEVICE, ANALYSIS	(11) EP3631679
(22) 25.06.2021	METHOD, AND PROGRAM	(21) EP18733746.4
(54) METHOD FOR PROCESSING	(73) NEC Corporation	(47) 13.09.2023
MULTIMODAL IMAGES, APPARATUS,	(72) HAYASHI Haruyuki	(87) US2018035291
DEVICE AND STORAGE MEDIUM	IMAI Yusuke	06.12.2018
(73) BEIJING BAIDU NETCOM SCIENCE	(31) 2017136952	(22) 31.05.2018
TECHNOLOGY CO., LTD.	(32) 13.07.2017	(54) SYSTEMS AND METHODS FOR
(72) WEN, Shengzhao	(33) Japan	DETERMINING APPARENT SKIN AGE
(31) 202011118853	(51) G06V 40/16	(73) The Procter & Gamble Company
(32) 19.10.2020	G06T 7/20	(72) PURWAR, Ankur
(33) China	G06Q 50/22	MATTS, Paul, Jonathan
(51) G06V 20/56	A61B 5/11	SHREVE, Matthew, Adam
(11) EP3738068	A61B 5/00	WU, Wencheng
(21) EP18830826.6	A61B 5/1171	XU, Beilei
(47) 13.09.2023	A61B 5/0205	(31) 201762513186 P
(87) EP2018086350	A61B 5/16	(32) 31.05.2017
18.07.2019	G16H 20/70	(33) United States of America
(22) 20.12.2018	G16H 30/40	(51) G07B 15/02
(54) METHOD AND DEVICE FOR	G16H 50/30	H04W 4/02
DETECTING A ROADSIDE OBJECT	G16H 50/20	G06Q 20/32
(73) Motherson Innovations Company Limited	G16H 40/63	(11) EP3567553
(72) LANGBEIN, Reinhold	(11) EP3452935	(21) EP18171335.5
WU, Lan	(21) EP17810680.3	(47) 13.09.2023
(31) 102018100331	(47) 13.09.2023	(22) 08.05.2018
(32) 09.01.2018	(87) US2017031616	(54) PARKING SYSTEM AND METHOD
(33) Germany	14.12.2017	(73) Ningbo Geely Automobile Research &
(51) G06V 20/56	(22) 08.05.2017	Development Co. Ltd.
G06F 18/25	(54) MOBILE AND WEARABLE VIDEO	(72) ANDERSSON, William
G06V 20/70	CAPTURE AND FEEDBACK PLAT-	(51) G07C 5/00
(11) EP3480726	FORMS FOR THERAPY OF MENTAL	B60C 23/04
(21) EP17200304.8	DISORDERS	(11) EP3049259
(47) 13.09.2023	(73) The Board of Trustees of the Leland	(21) EP13811013.5
(22) 07.11.2017	Stanford Junior University	(47) 13.09.2023
(54) A VISION SYSTEM AND METHOD FOR	Voss, Catalin	(87) IT2013000256
AUTONOMOUS DRIVING AND/OR	(72) VOSS, Catalin	02.04.2015
DRIVER ASSISTANCE IN A MOTOR	HABER, Nicholas, Joseph	(22) 25.09.2013
VEHICLE	WALL, Dennis, Paul	(54) DEVICE AND ASSEMBLY FOR
(73) Arriver Software AB	KLINE, Aaron, Scott	DETECTING TIRE PARAMETERS OF
(72) FRI, Johannes	WINOGRAD, Terry, Allen	TRANSITING VEHICLES
NARBY, Erik	(31) 201662333108 P	(73) STE Industries s.r.l.
NILSSON, Martin	(32) 06.05.2016	(72) MOIRAGHI, Paolo Maria
DANIELS, Oskar	(33) United States of America	CORTESE, Mauro
(51) G06V 20/56	(51) G06V 40/16	(51) G07C 5/08
G06V 10/44	G06V 10/44	(11) EP3963550
G06V 10/75	(11) EP3382601	(21) EP20727505.8
(11) EP3631675	(21) EP18164276.0	(47) 13.09.2023
(21) EP17735075.8	(47) 13.09.2023	(87) US2020030992
(47) 13.09.2023	(22) 27.03.2018	12.11.2020
(87) EP2017065986	(54) FACE VERIFYING METHOD AND	(22) 01.05.2020
03.01.2019	APPARATUS	(54) VEHICLE RECORDING SYSTEM
(22) 28.06.2017	(73) Samsung Electronics Co., Ltd.	UTILIZING EVENT DETECTION
(54) ADVANCED DRIVER ASSISTANCE	(72) HAN, Seungju	(73) Stoneridge Electronics, AB
SYSTEM AND METHOD	KO, Minsu	(72) SCHUMACHER, Darren
(73) Huawei Technologies Co., Ltd.	KIM, Deoksang	(31) 201962842560 P
(72) BOEV, Atanas	CHOI, Chang Kyu	(32) 03.05.2019
URFALIOGLU, Onay	HAN, JaeJoon	(33) United States of America
SETIAWAN, Panji	(31) 20170071331	(51) G07C 9/00
(51) G06V 20/59	20170039202	(11) EP3779900
G06V 40/10	(32) 08.06.2017	(21) EP19855024.6
	28.03.2017	

(47) 13.09.2023	G07F 13/10	(51) G08B 13/14
(87) CN2019096482	B26D 1/08	G08B 13/196
05.03.2020	B26D 5/08	B62D 63/02
(22) 18.07.2019	B29C 53/06	(11) EP3815061
(54) SMART LOCK UNLOCKING METHOD, MOBILE TERMINAL, SERVER, AND READABLE STORAGE MEDIUM	B31D 5/00	(21) EP18924487.4
(73) Advanced New Technologies Co., Ltd.	B31F 1/00	(47) 13.09.2023
(72) LIAO, Hui	(11) EP3963552	(87) CN2018093744
HUANG, Qi	(21) EP20730320.7	02.01.2020
ZHAO, Shengbo	(47) 13.09.2023	(22) 29.06.2018
(31) 201811014469	(87) IB2020054097	(54) THEFT PROOF TECHNIQUES FOR AUTONOMOUS DRIVING VEHICLES USED FOR TRANSPORTING GOODS
(32) 31.08.2018	12.11.2020	(73) Baidu.com Times Technology (Beijing) Co., Ltd.
(33) China	(22) 30.04.2020	Baidu USA LLC
(51) G07C 9/00	(54) STIRRER DISPENSER FOR A BEVERAGE VENDING MACHINE	(72) FU, Yiqun
(11) EP3158539	(73) EVOCA S.p.A.	ZHANG, Liangliang
(21) EP15719170.1	(72) SIRBU VILLA, Dan Alexie	LIU, Shengxiang
(47) 13.09.2023	(31) 201900013083	HU, Jiangtao
(87) EP2015058513	19172645	
23.12.2015	(32) 26.07.2019	(51) G08B 13/196
(22) 20.04.2015	03.05.2019	(11) EP3874480
(54) METHOD FOR THE REMOTE CONTROL OF A FUNCTION OF A MOTOR VEHICLE USING AN ELECTRONIC UNIT OUTSIDE THE VEHICLE, AND A MOTOR VEHICLE	(33) Italy	(21) EP18793672.9
(73) Valeo Schalter und Sensoren GmbH	European Patent Office (EPO)	(47) 13.09.2023
(72) BECK, Manuel	(51) G07F 17/32	(87) EP2018079602
GEHIN, Frederic	G06F 21/00	07.05.2020
SCHEERLE, Marc	(11) EP1941473	(22) 29.10.2018
PRESSEL, Ullrich	(21) EP06828870.3	(54) FACILITY SURVEILLANCE SYSTEMS AND METHODS
ANDERSCHITZ, Martin	(47) 13.09.2023	(73) Hexagon Technology Center GmbH
FRIESEN, Viktor	(87) EP2006010336	(72) METZLER, Bernhard
HILLER, Andreas	03.05.2007	HAUPT, Barbara
(31) 102014005796	(22) 26.10.2006	KÄCHELE, Markus
(32) 18.06.2014	(54) GAMING, GAMBLING AND/OR ENTERTAINMENT DEVICE	REIMANN, Bernd
(33) Germany	(73) Novomatic AG	GÄCHTER TOYA, Stefan Martin
(51) G07D 11/14	(72) GRAF, Johann, F.	Benjamin
G07D 11/225	(31) 73105 U	HEILI, Alexandre
G07D 11/36	(32) 27.10.2005	(51) G08B 13/196
G07D 11/60	(33) Austria	G08B 13/16
G07F 19/00	(51) G07F 19/00	(11) EP3876210
(11) EP3736783	(11) EP3675070	(21) EP20160409.7
(21) EP19173422.7	(21) EP19209692.3	(47) 13.09.2023
(47) 13.09.2023	(47) 13.09.2023	(22) 02.03.2020
(22) 09.05.2019	(22) 18.11.2019	(54) A LOW OR MEDIUM SWITCHGEAR MONITORING SYSTEM
(54) ATM	(54) MEDIUM STORAGE APPARATUS FOR AUTOMATED TELLER MACHINE	(73) ABB Schweiz AG
(73) Diebold Nixdorf Systems GmbH	(73) HYOSUNG TNS INC.	(72) KAUFMANN, Patrik
(72) Kujat, Erich	(72) Cho, Ji Youn	OSTROWSKI, Joerg
Neubauer, Lutz	Min, Dong Won	WILDERMUTH, Stephan
(51) G07F 11/16	Park, Sung Ho	GITZEL, Ralf
G07F 9/10	(31) 20180172250	GEBHARDT, Joerg
G07F 11/04	(32) 28.12.2018	(51) G08B 21/04
(11) EP3311368	(33) Korea (Republic)	(11) EP3667633
(21) EP16815227.0	(51) G08B 13/04	(21) EP18211668.1
(47) 13.09.2023	G08B 13/00	(47) 13.09.2023
(87) US2016038790	G08B 29/18	(22) 11.12.2018
29.12.2016	(11) EP3680870	(54) PATIENT MONITORING DEVICE AND ARRANGEMENT
(22) 22.06.2016	(21) EP20151016.1	(73) E.ON Digital Technology GmbH
(54) MERCHANDISER WITH FLEXIBLE TEMPERATURE CONTROLLED COLUMNS	(47) 13.09.2023	(72) Ord, Nicholas
(73) The Coca-Cola Company	(22) 09.01.2020	(51) G08B 25/04
(72) ROEKENS, Jurgen	(54) LIGHT CHARGING SYSTEM FOR WIRELESS ALARM DETECTORS	G08B 29/18
(31) 201562182686 P	(73) Carrier Corporation	G08B 29/06
(32) 22.06.2015	(72) LISEWSKI, Tomasz	G08B 29/12
(33) United States of America	(31) 201916717086	(11) EP3822936
(51) G07F 11/70	201962790107 P	(21) EP19382992.6
	(32) 17.12.2019	(47) 13.09.2023
	09.01.2019	(22) 13.11.2019
	(33) United States of America	(54) SHORT-CIRCUIT ISOLATOR
	United States of America	

(73) Carrier Corporation	(31) 1852872	30.10.2014
(72) CORDOBA GALERA, Andrés	(32) 03.04.2018	(33) Japan
(51) G08B 29/12	(33) France	Japan
(11) EP3803823	(51) G08C 17/02	(51) G08G 1/01
(21) EP18728605.9	H05B 47/19	G08G 1/065
(47) 13.09.2023	(11) EP3559923	(11) EP3996064
(87) EP2018064115	(21) EP17822688.2	(21) EP21205861.4
05.12.2019	(47) 13.09.2023	(47) 13.09.2023
(22) 29.05.2018	(87) EP2017084367	(22) 02.11.2021
(54) TESTING OF A NETWORK OF HAZARD WARNING DEVICES	28.06.2018	(54) METHOD FOR DETERMINING A NUMBER OF PASSAGES OF VEHICLES ON AT LEAST ONE ROAD PORTION OF A ROAD NETWORK
(73) Autronica Fire & Security AS	(22) 22.12.2017	
(72) VANNEBO, Per Johan	(54) CONTROLLING AT LEAST ONE CONTROLLABLE DEVICE ARRANGED IN A REGION PREDEFINED BY A LIGHTING DEVICE	(73) IFP Energies nouvelles
(51) G08B 29/14		(72) JEAN, Maxime
G08B 29/18	(73) OSRAM GmbH	BENG, William
(11) EP3772047	(72) PEITZ, Christoph	CHASSE, Alexandre
(21) EP19189285.0	FEIL, Henry	(31) 2011523
(47) 13.09.2023	ZAGGL, Andreas	(32) 10.11.2020
(22) 31.07.2019	WALLWITZ, Karl-Heinz	(33) France
(54) A SENSOR		
(73) Tridonic GmbH & Co. KG	(31) 102016125661	(51) G08G 1/097
(72) Lochmann, Frank	(32) 23.12.2016	G08G 1/0967
Maldoner, Jakob	(33) Germany	H04W 4/44
(51) G08B 29/18	(51) G08G 1/00	(11) EP3889945
G08B 17/00	B60Q 1/50	(21) EP21160852.6
(11) EP3806055	G08G 1/005	(47) 13.09.2023
(21) EP19811476.1	(11) EP3815072	(22) 05.03.2021
(47) 13.09.2023	(21) EP19826417.8	(54) SYSTEM FOR TRANSMITTING INFORMATION ABOUT SIGNAL STATES OF A LIGHT SIGNALLING SYSTEM TO AT LEAST ONE AUTONOMOUS MOTOR VEHICLE
(87) JP2019011400	(47) 13.09.2023	
05.12.2019	(87) US2019022927	
(22) 19.03.2019	02.01.2020	
(54) FIRE ALARM DEVICE, FIRE ALARM SYSTEM, ABNORMALITY DETERMINATION METHOD, AND PROGRAM	(22) 19.03.2019	
(73) Panasonic Intellectual Property Management Co., Ltd.	(54) INTERACTIVE EXTERNAL VEHICLE-USER COMMUNICATION	(73) Yunex GmbH
(72) SAKAMOTO, Koji	(73) Nissan North America, Inc.	(72) Braatz, Robert
(31) 2018101801	Renault s.a.s	Frank, Harald
(32) 28.05.2018	(72) ZHANG, Jingyi	Zelger, Peter
(33) Japan	CEFKIN, Melissa	de Zaeyer, Geert
(51) G08C 17/02	(31) 201816024231	(31) 102020204253
(11) EP3723060	(32) 29.06.2018	(32) 01.04.2020
(21) EP20169097.1	(33) United States of America	(33) Germany
(47) 13.09.2023		
(22) 09.04.2020	(51) G08G 1/00	(51) G08G 1/16
(54) SMART SYSTEM FOR HOUSEHOLD DEVICES	B60R 21/00	B60R 21/00
(73) The Hong Kong and China Gas Company Limited	B60W 40/04	G01S 3/86
(72) LEE, Ho Leung	B60W 50/14	G01V 1/00
(31) 19122091	G08G 1/09	(11) EP2858059
(32) 10.04.2019	G08G 1/16	(21) EP12877153.2
(33) Hong Kong	B60Q 1/50	(47) 13.09.2023
(51) G08C 17/02	G08G 1/01	(87) JP2012063549
(11) EP3889941	G08G 1/015	28.11.2013
(21) EP21175991.5	G08G 1/0967	(22) 25.05.2012
(47) 13.09.2023	G01S 13/93	(54) APPROACHING VEHICLE DETECTION APPARATUS, AND DRIVE ASSIST SYSTEM
(22) 02.04.2019	G08G 1/052	
(54) WIRELESS CONTROL DEVICE AND ASSEMBLY COMPRISING SUCH A DEVICE, AS WELL AS ANOTHER CONTROL DEVICE CAPABLE OF BEING CONNECTED TO AN ELECTRIC WIRE	G08G 1/056	(73) Toyota Jidosha Kabushiki Kaisha
(73) Schneider Electric Industries SAS	G01S 13/931	(72) KAMINADE, Takuya
(72) PAYET-BURIN, Jean-Luc	(11) EP3220370	KAWAMATA, Shinya
	(21) EP15854196.1	OZAKI, Osamu
	(47) 13.09.2023	NAGAE, Akira
	(87) JP2015080654	
	06.05.2016	(51) G08G 1/16
	(22) 30.10.2015	B60W 30/12
	(54) AUTONOMOUS DRIVING ASSISTANCE SYSTEM	B60W 30/182
	(73) Mitsubishi Electric Corporation	B60W 30/14
	(72) TSUDA, Yoshiaki	B60W 50/14
	(31) 2014221208	B60W 50/00
	2014221207	(11) EP3971867
	(32) 30.10.2014	(21) EP20806623.3
		(47) 13.09.2023
		(87) JP2020014517

19.11.2020	(33) European Patent Office (EPO)	INA, Tatsuya
(22) 30.03.2020	(51) G08G 5/00	MIYABE, Kazuhiro
(54) DRIVING ASSISTANCE METHOD AND DRIVING ASSISTANCE DEVICE	G08G 5/04	(31) 2018069087
(73) NISSAN MOTOR CO., LTD.	G05D 1/10	(32) 30.03.2018
(72) ITO, Atsushi	G01C 21/20	(33) Japan
NAKAMURA, Shohei	G01S 13/93	(51) G09F 9/30
(31) 2019092443	G01S 17/93	G06F 1/16
(32) 15.05.2019	(11) EP3341925	(11) EP3712875
(33) Japan	(21) EP16760034.5	(21) EP19894397.9
(51) G08G 1/16	(47) 13.09.2023	(47) 13.09.2023
G09B 29/00	(87) EP2016070341	(87) CN2019071286
G01C 21/00	02.03.2017	16.07.2020
(11) EP3869485	(22) 29.08.2016	(22) 11.01.2019
(21) EP19874235.5	(54) A HIGHLY AUTOMATED SYSTEM	(54) STRUCTURE OF EXTENDING-TYPE
(47) 13.09.2023	OF AIR TRAFFIC CONTROL (ATM)	DISPLAY SCREEN
(87) JP2019040088	FOR AT LEAST ONE UNMANNED	(73) Jiangsu Kangrui New Material
23.04.2020	AERIAL VEHICLE (UNMANNED AERIAL	Technology Co., Ltd.
(22) 10.10.2019	VEHICLES UAV)	(72) ZHU, Wei
(54) LANE LINK GENERATION DEVICE, LANE LINK GENERATION PROGRAM, AND LANE LINK GENERATION METHOD	(73) Dronsystems Limited	CHUANG, Haolin
(73) Mitsubishi Electric Corporation	(72) TANTARDINI, Marco	WANG, Chengwei
(72) WATANABE, Masashi	SHOMKO, Dennis A.	(51) G09F 9/302
TAKAHASHI, Yukako	(31) UB20153269	(11) EP3669348
KADOYA, Takuma	15182778	(21) EP18762720.3
(31) 2018194019	(32) 27.08.2015	(47) 13.09.2023
(32) 15.10.2018	27.08.2015	(87) US2018046703
(33) Japan	(33) Italy	21.02.2019
(51) G08G 5/00	European Patent Office (EPO)	(22) 14.08.2018
G05D 1/00	(51) G09F 3/00	(54) DISPLAY ASSEMBLY
G08G 5/06	G09F 3/10	(73) Daktronics, Inc.
G05D 1/02	G09F 3/02	(72) HABECK, Dan
(11) EP3134791	(11) EP3438955	(31) 201762546356 P
(21) EP15716850.1	(21) EP18186365.5	(32) 16.08.2017
(47) 13.09.2023	(47) 13.09.2023	(33) United States of America
(87) EP2015058654	(22) 30.07.2018	(51) G09F 9/33
29.10.2015	(54) MEDIUM	(11) EP3465665
(22) 22.04.2015	(73) Brother Kogyo Kabushiki Kaisha	(21) EP17807350.8
(54) METHOD FOR GUIDING AN AIRCRAFT	(72) MURAYAMA, Kentaro	(47) 13.09.2023
(73) Safran Electronics & Defense	INOUE, Harumitsu	(87) US2017035062
(72) FARJON, Julien	MATSUMOTO, Haruki	07.12.2017
GUETTIER, Christophe	KATAGIRI, Kazuyuki	(22) 30.05.2017
(31) 1453590	BABA, Daisuke	(54) MULTI-FUNCTION LIGHT APPARATUS
(32) 22.04.2014	(31) 2017147810	(73) ROHINNI, INC.
(33) France	(32) 31.07.2017	(72) PETERSON, Cody
(51) G08G 5/00	(33) Japan	HUSKA, Andy
G08G 3/00	(51) G09F 9/00	WENDT, Justin
G01S 3/14	G09F 9/30	(31) 201662343756 P
G10L 15/26	G09F 9/46	(32) 31.05.2016
G01S 3/04	G09G 5/00	(33) United States of America
(11) EP3891718	G09F 13/12	(51) G09F 17/00
(21) EP19808725.6	G09F 19/12	(11) EP3309772
(47) 13.09.2023	G09F 13/04	(21) EP17180171.5
(87) EP2019081751	G09F 27/00	(47) 13.09.2023
11.06.2020	G09F 23/06	(22) 07.07.2017
(22) 19.11.2019	G02F 1/1334	(54) EMERGENCY SIGNAL DEVICE
(54) DEVICE, METHOD AND COMPUTER PROGRAM FOR HANDLING SPEECH RADIO SIGNALS	H04N 5/64	(73) Kuchenbecker, Jörg
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	G09F 9/33	(72) Kuchenbecker, Jörg
Rhotheta Elektronik GmbH	(11) EP3779936	(31) 102016119353
(72) JOHN, Ole	(21) EP19777290.8	(32) 11.10.2016
ZVEREV, Ivan	(47) 13.09.2023	(33) Germany
(31) 18211076	(87) JP2019013831	(51) G09G 3/20
(32) 07.12.2018	03.10.2019	(11) EP3485483
	(22) 28.03.2019	(21) EP17777673.9
	(54) IMAGE DISPLAY DEVICE	(47) 13.09.2023
	(73) Panasonic Intellectual Property	(87) US2017049776
	Management Co., Ltd.	29.03.2018
	(72) KUGIMARU, Tadahiro	(22) 31.08.2017
	ONISHI, Ryouji	
	ARAYA, Jun	

<p>(54) DISPLAY PANEL ADJUSTMENT FROM TEMPERATURE PREDICTION                  (73) Apple Inc.                  (72) CHANG, Sun-II                  LIN, Hung Sheng                  NHO, Hyunwoo                  RYU, Jie Won                  TAN, Junhua                  YEH, Chih-Wei                  WANG, Chaohao                  SACCHETTO, Paolo                  (31) 201715674208                  201662398083 P                  (32) 10.08.2017                  22.09.2016                  (33) United States of America                  United States of America</p> <hr/> <p>(51) G09G 3/3216                  G09G 3/20                  (11) EP3494572                  (21) EP17869587.0                  (47) 13.09.2023                  (87) KR2017007038                  17.05.2018                  (22) 03.07.2017                  (54) LED DISPLAY MODULE AND DISPLAY APPARATUS                  (73) Samsung Electronics Co., Ltd.                  (72) LEE, Ho-seop                  SON, Dong-myung                  LEE, Jae-hyang                  (31) 20160148788                  (32) 09.11.2016                  (33) Korea (Republic)</p> <hr/> <p>(51) G09G 3/36                  G11C 19/28                  (11) EP3675115                  (21) EP18825559.0                  (47) 13.09.2023                  (87) CN2018088214                  28.02.2019                  (22) 24.05.2018                  (54) SHIFT REGISTER, DRIVING METHOD THEREFOR, GATE DRIVING CIRCUIT AND DISPLAY APPARATUS                  (73) BOE Technology Group Co., Ltd.                  Ordos Yuansheng Optoelectronics Co., Ltd.                  (72) HUANG, Fei                  (31) 201710718885                  (32) 21.08.2017                  (33) China</p> <hr/> <p>(51) G10K 9/12                  (11) EP3874486                  (21) EP19805501.4                  (47) 13.09.2023                  (87) US2019058765                  07.05.2020                  (22) 30.10.2019                  (54) SYSTEMS AND METHODS FOR RECURSIVE NORM CALCULATION                  (73) Bose Corporation                  (72) FARAHBAKHS, Siamak                  TORRES, Wade                  BERNSTEIN, Eric                  (31) 201816176892                  (32) 31.10.2018                  (33) United States of America</p> <hr/>	<p>(51) G10K 11/168                  G10K 11/172                  F02B 77/13                  F02C 7/045                  F02K 1/82                  B32B 1/08                  B32B 3/26                  B32B 25/02                  B32B 7/12                  B32B 9/00                  B32B 15/092                  B32B 15/18                  B32B 15/20                  B32B 27/12                  B32B 27/38                  B32B 3/12                  B64D 33/02                  B29D 99/00                  B32B 5/02                  (11) EP3839939                  (21) EP20214090.1                  (47) 13.09.2023                  (22) 15.12.2020                  (54) STRUCTURAL SINGLE DEGREE OF FREEDOM FACE SHEET ACOUSTIC LINER                  (73) The Boeing Company                  (72) FRONING, Marc J.                  LAUDER, Arnold J.                  OZOG, Stefan                  RIEDEL, Brian L.                  (31) 201916721478                  (32) 19.12.2019                  (33) United States of America</p> <hr/> <p>(51) G10L 13/033                  G06N 3/044                  G06N 3/045                  G06N 3/047                  G06N 3/08                  G10L 25/30                  G10L 13/08                  (11) EP3994683                  (21) EP20730951.9                  (47) 13.09.2023                  (87) US2020033890                  07.01.2021                  (22) 21.05.2020                  (54) MULTILINGUAL NEURAL TEXT-TO-SPEECH SYNTHESIS                  (73) Microsoft Technology Licensing, LLC                  (72) YANG, Jingzhou                  HE, Lei                  (31) 201910588478                  (32) 02.07.2019                  (33) China</p> <hr/> <p>(51) G10L 13/08                  G10L 13/047                  G06N 3/044                  G06N 3/045                  G06N 3/08                  (11) EP4029010                  (21) EP20736844.0                  (47) 13.09.2023                  (87) US2020038019                  18.03.2021                  (22) 17.06.2020</p>	<p>(54) NEURAL TEXT-TO-SPEECH SYNTHESIS WITH MULTI-LEVEL CONTEXT FEATURES                  (73) Microsoft Technology Licensing, LLC                  (72) ZHANG, Shaofei                  HE, Lei                  (31) 201910864208                  (32) 12.09.2019                  (33) China</p> <hr/> <p>(51) G10L 15/20                  G10L 15/16                  G10L 21/0216                  (11) EP3739574                  (21) EP20184871.0                  (47) 13.09.2023                  (22) 28.12.2016                  (54) ADAPTIVE AUDIO ENHANCEMENT FOR MULTICHANNEL SPEECH RECOGNITION                  (73) Google LLC                  (72) LI, Bo                  WEISS, Ron J.                  BACCHIANI, Michiel A.U.                  SAINATH, Tara N.                  WILSON, Kevin William                  (31) 201662312053 P                  (32) 23.03.2016                  (33) United States of America</p> <hr/> <p>(51) G10L 15/22                  G06F 3/16                  D06F 34/05                  H04L 12/28                  G10L 15/08                  D06F 34/28                  D06F 34/32                  D06F 101/00                  D06F 105/58                  D06F 105/60                  (11) EP3822966                  (21) EP20206707.0                  (47) 13.09.2023                  (22) 10.11.2020                  (54) METHOD AND SYSTEM FOR CONTROLLING AND/OR COMMUNICATING WITH A HOUSEHOLD APPLIANCE BY MEANS OF VOICE COMMANDS WITH VERIFICATION OF THE ENABLING OF A REMOTE CONTROL                  (73) Candy S.p.A.                  (72) SERGI, Leonardo                  (31) 201900020943                  (32) 12.11.2019                  (33) Italy</p> <hr/> <p>(51) G10L 15/24                  G06V 10/44                  G06V 10/764                  G06V 10/80                  G06V 10/82                  G06V 20/10                  G06F 18/2413                  G06F 18/25                  G10L 15/16                  (11) EP3404578                  (21) EP18169500.8                  (47) 13.09.2023                  (22) 26.04.2018</p>
--	--	---

(54) SENSOR TRANSFORMATION ATTENTION NETWORK (STAN) MODEL	(54) METHOD FOR SUPPRESSING AN ACOUSTIC REVERBERATION IN AN AUDIO SIGNAL	(72) LEE, Ji-Young RHO, Young-sik PARK, Il-han
(73) Samsung Electronics Co., Ltd. Universität Zürich	(73) Sivantos Pte. Ltd.	(31) 20180066091
(72) BRAUN, Stefan NEIL, Daniel CEOLINI, Enea ANUMULA, Jithendar LIU, Shih-Chii	(72) ROSENKRANZ, Tobias Daniel DREßLER, Oliver	(32) 08.06.2018 (33) Korea (Republic)
(31) 20170117021 201762508631 P 201762507385 P	(31) 102018210143 (32) 21.06.2018 (33) Germany	(51) G16B 20/00 G16B 40/20
(32) 13.09.2017 19.05.2017 17.05.2017	(51) G10L 21/0232 G10L 25/30 G06N 3/044 G06N 3/08 G10L 21/0208	(11) EP3622519 (21) EP18796346.7 (47) 13.09.2023 (87) US2018055919 25.04.2019
(33) Korea (Republic) United States of America United States of America	(11) EP3738118 (21) EP18899644.1 (47) 13.09.2023 (87) US2018056995 18.07.2019	(22) 15.10.2018 (54) DEEP LEARNING-BASED ABERRANT SPLICING DETECTION (73) Illumina, Inc. (72) JAGANATHAN, Kishore FARH, Kai-How KYRIAZOPOULOU PANAGIOTOPOULOU, Sofia MCRAE, Jeremy Francis
(51) G10L 19/02 G06F 17/14	(22) 23.10.2018 (54) ENHANCING AUDIO SIGNALS USING SUB-BAND DEEP NEURAL NETWORKS	(31) 201862726158 P 201762573135 P 201762573131 P 201762573125 P
(11) EP3871215 (21) EP19784111.7 (47) 13.09.2023 (87) EP2019078112 30.04.2020	(73) Alibaba Group Holding Limited (72) YU, Tao TU, Ming LIU, Gang	(32) 31.08.2018 16.10.2017 16.10.2017 16.10.2017
(2) 16.10.2019	(31) 201815869566 (32) 12.01.2018 (33) United States of America	(33) United States of America United States of America United States of America United States of America
(54) PERCEPTUAL AUDIO CODING WITH ADAPTIVE NON-UNIFORM TIME/FREQUENCY TILING USING SUBBAND MERGING AND THE TIME DOMAIN ALIASING REDUCTION	(51) G11C 11/56 G11C 16/04 G11C 16/08 G11C 16/26 G11C 16/34 G11C 16/32 H10B 43/27 H10B 43/40	(51) G16B 25/10 G16B 25/00 G16B 40/00 C12Q 1/6809 C12Q 1/6837 G01N 33/00
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	(11) EP3711054 (21) EP19894429.0 (47) 13.09.2023 (87) US2019047975 25.06.2020	(11) EP3590059 (21) EP18708976.8 (47) 13.09.2023 (87) EP2018055146 07.09.2018
(72) WERNER, Nils EDLER, Bernd DISCH, Sascha	(2) 23.08.2019 (54) REDUCING READ DISTURB IN TWO-TIER MEMORY DEVICE BY MODIFYING DURATION OF CHANNEL DISCHARGE BASED ON SELECTED WORD LINE	(22) 02.03.2018 (54) METHOD FOR IDENTIFYING EXPRESSION DISTINGUISHERS IN BIOLOGICAL SAMPLES
(31) 19169635 18202927	(73) SanDisk Technologies LLC (72) CHEN, Hong-Yan ZHAO, Wei DONG, Yingda	(73) Global Life Sciences Solutions Operations UK Ltd (72) NEWBERG, Lee Aaron ZAVODSKY, Maria KODIRA, Chinnappa, Dilip
(32) 16.04.2019 26.10.2018	(31) 201816227668 (32) 20.12.2018 (33) United States of America	(31) 201715659359 201762466807 P
(33) European Patent Office (EPO) European Patent Office (EPO)	(51) G11C 16/16 G11C 16/34 G11C 11/56 G11C 16/04 G11C 5/02	(32) 25.07.2017 03.03.2017 (33) United States of America United States of America
(51) G10L 19/02 G10L 19/022	(11) EP3579236 (21) EP19177925.5 (47) 13.09.2023 (22) 03.06.2019 (54) NON-VOLATILE MEMORY DEVICE AND ERASING METHOD OF THE SAME	(51) G16C 10/00 (11) EP3652745 (21) EP18832122.8 (47) 13.09.2023 (87) US2018041697 17.01.2019 (22) 11.07.2018
(11) EP4022607 (21) EP20757930.1 (47) 13.09.2023 (87) EP2020073742 04.03.2021	(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	
(22) 25.08.2020	(72) WERNER, Nils EDLER, Bernd	
(54) TIME-VARYING TIME-FREQUENCY TILINGS USING NON-UNIFORM ORTHOGONAL FILTERBANKS BASED ON MDCT ANALYSIS/SYNTHESIS AND TDAR	(31) 19194145 (32) 28.08.2019 (33) European Patent Office (EPO)	
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	(51) G10L 21/0208 H04M 9/08	
(72) WERNER, Nils EDLER, Bernd	(11) EP3588498 (21) EP19177803.4 (47) 13.09.2023 (22) 03.06.2019	
(31) 19194145 (32) 28.08.2019 (33) European Patent Office (EPO)		
(51) G10L 21/0208 H04M 9/08		
(11) EP3588498 (21) EP19177803.4 (47) 13.09.2023 (22) 03.06.2019	(73) Samsung Electronics Co., Ltd.	

(54) CALIBRATION OF RADIATION THERAPY TREATMENT PLANS FOR A SYSTEM	ROZEE, Martin	FRANK, Hedmann
(73) Vinh-Hung, Vincent Nguyen, Nam, P.	(51) G16H 40/60 G16H 50/50	(31) 102017206877 201815896695
(72) Vinh-Hung, Vincent Nguyen, Nam, P.	(11) EP3899980 (21) EP20713210.1 (47) 13.09.2023	(32) 24.04.2017 14.02.2018
(31) 201762608751 P 201762531073 P	(87) EP2020056809 16.09.2021	(33) Germany United States of America
(32) 21.12.2017 11.07.2017	(22) 13.03.2020	(51) G16H 50/30 G16H 50/20 G16H 50/70 G16H 30/40 A61B 8/06 A61B 8/08 A61B 8/00
(33) United States of America United States of America	(54) STABILITY ESTIMATION OF A POINT SET REGISTRATION (73) Brainlab AG (72) IVANOVSKA, Ivana KAISER, Hagen APONTE, Pablo VEIGEL, Jochen	(11) EP3619716 (21) EP18725779.5 (47) 13.09.2023 (87) EP2018061611 08.11.2018 (22) 04.05.2018
(51) G16H 20/30 G16H 40/63	(51) G16H 40/63 A61M 1/14	(54) SYSTEM AND METHOD FOR CONCURRENT VISUALIZATION AND QUANTIFICATION OF WALL SHEAR STRESS IN BLOOD VESSELS
(11) EP3317786 (21) EP16734625.3 (47) 13.09.2023	(11) EP3374892 (21) EP16793894.3 (47) 13.09.2023	(73) Koninklijke Philips N.V. (72) WANG, Shiyang HUANG, Sheng-Wen XIE, Hua VIGNON, Francois, Guy, Gerard, Marie JOHNSON, Keith, William ZHANG, Liang
(87) EP2016065298 05.01.2017	(87) EP2016077151 18.05.2017	(31) 201762501448 P (32) 04.05.2017 (33) United States of America
(22) 30.06.2016	(2) 09.11.2016	(51) G16H 50/50 G16H 50/20 G16H 20/40
(54) CARDIOPULMONARY RESUSCITATION COORDINATION METHOD, COMPUTER PROGRAM PRODUCT AND SYSTEM	(54) MEDICAL INSTRUMENT WITH USER ASSISTANCE AND METHOD (73) Fresenius Medical Care Deutschland GmbH (72) WALDE, Jan-Willem KLEWINGHAUS, Jürgen RUDOLPH, Stefan SCHROERS, Alexander VERCH, Georg WITZACK, Stefan	(11) EP4044194 (21) EP21156619.5 (47) 13.09.2023 (22) 11.02.2021
(73) Koninklijke Philips N.V. (72) DELLIMORE, Kiran, Hamilton, J. MÜHLSTEFF, Jens	(73) Fresenius Medical Care Deutschland GmbH (72) WALDE, Jan-Willem KLEWINGHAUS, Jürgen RUDOLPH, Stefan SCHROERS, Alexander VERCH, Georg WITZACK, Stefan	(54) METHOD FOR ANALYSING POTENTIAL ABLATION THERAPIES
(31) 15174595 (32) 30.06.2015 (33) European Patent Office (EPO)	(31) 102015014527 (32) 11.11.2015 (33) Germany	(73) CathVision ApS (72) PAAMAND, Rune Tore MATTHIESEN, Mads Emil
(51) G16H 20/30 G16H 40/63 A61B 5/11 G04G 17/06	(51) G16H 40/67 G16H 20/40 G16H 10/60	(51) G21C 17/017 G21C 7/10 G21C 13/036
(11) EP2805270 (21) EP13703191.0 (47) 13.09.2023	(11) EP3992985 (21) EP21209044.3 (47) 13.09.2023	(11) EP3776596 (21) EP18722819.2 (47) 13.09.2023
(87) US2013021655 25.07.2013	(22) 03.10.2014	(87) US2018027668 17.10.2019
(22) 16.01.2013	(54) SYSTEM AND METHOD FOR PATIENT DATA PROCESSING DURING DIAGNOSIS AND THERAPY (73) ResMed Inc. (72) BUCKLEY, Mark David LAIDLAW, Linda Elizabeth	(22) 13.04.2018
(54) WEARABLE DEVICE ASSEMBLY HAVING ATHLETIC FUNCTIONALITY	(31) 2013903830 (32) 04.10.2013 (33) Australia	(54) METHOD AND DEVICE FOR REPLACING SLEEVES LINING NUCLEAR REACTOR PRESSURE VESSEL TUBES
(73) NIKE Innovate C.V. (72) WEAST, Aaron B. COBBETT, Jamian R. CRANKSON, Kwamina DRYDEN, Michael	(31) 2013903830 (32) 04.10.2013 (33) Australia	(73) Framatome Inc. (72) MARKHAM, Wade MELCHER, Ryan
(31) 201213353231 (32) 18.01.2012 (33) United States of America	(51) G16H 40/67 G16H 40/40	(51) G21F 5/005 (11) EP4073822 (21) EP20842008.3 (47) 13.09.2023
(51) G16H 40/20 G16H 40/63 G16H 40/67	(11) EP3616211 (21) EP18720572.9 (47) 13.09.2023	(87) FR2020052337 17.06.2021
(11) EP3711063 (21) EP17800547.6 (47) 13.09.2023	(87) EP2018060423 01.11.2018	
(87) EP2017079676 23.05.2019	(22) 24.04.2018	
(22) 17.11.2017	(54) MONITORING SYSTEM FOR AT LEAST ONE PERITONEAL DIALYSIS APPLIANCE (73) Fresenius Medical Care Deutschland GmbH (72) HOCHREIN, Torsten NADJA, Schubert	
(54) HYGIENE MONITORING SYSTEMS AND METHODS		
(73) Essity Hygiene and Health Aktiebolag (72) AHONG, Timothy MALI, Shyam PORTHIYAS, Danny IRONSTONE, Joel EDDING, Jacob		

(22) 08.12.2020	C25D 13/20	(87) FR2014051053
(54) LOW-COST DESIGN STORAGE DEVICE FOR STORING AND/OR TRANSPORTING NUCLEAR FUEL ASSEMBLIES	C25D 13/22 C25D 13/12 A61N 1/05	13.11.2014 (22) 02.05.2014 (54) WIRING HARNESS PRODUCTION SYSTEM
(73) ORANO NUCLEAR PACKAGES AND SERVICES	(11) EP3537455	(73) Laselec
(72) TARDY, Marcel	(21) EP19160772.0	(72) ROUGIER, Stéphane
(31) 1914132	(47) 13.09.2023	VIAULT, Michel
(32) 11.12.2019	(22) 14.03.2014	(31) 1354149
(33) France	(54) IMPLANTABLE ELECTRODE COMPRISING A CONDUCTIVE POLYMERIC COATING	(32) 06.05.2013
(51) G21F 5/10	(73) Heraeus Medical Components LLC	(33) France
G21F 5/008	(72) RICHARDSON-BURNS, Sarah	(51) H01C 1/022
(11) EP3704717	HENDRICKS, Jeff	H01C 10/14
(21) EP18872637.6	(31) 201361794058 P	H01C 10/30
(47) 13.09.2023	(32) 15.03.2013	(11) EP3782173
(87) US2018058198	(33) United States of America	(21) EP19735378.2
09.05.2019	(51) H01B 7/00	(47) 13.09.2023
(22) 30.10.2018	H01B 11/00	(87) IB2019053259
(54) METHOD OF STORING HIGH LEVEL RADIOACTIVE WASTE	G01B 7/02	24.10.2019
(73) Holtec International	(11) EP3780011	(22) 19.04.2019
(72) SINGH, Krishna P.	(21) EP19192170.9	(54) POTENTIOMETER FOR CONTROLLING ELECTRIC CIRCUIT
(31) 201762581229 P	(47) 13.09.2023	(73) Pizzato Elettrica S.r.l.
(32) 03.11.2017	(22) 16.08.2019	(72) PIZZATO, Marco
(33) United States of America	(54) MULTIFUNCTIONAL ELECTRIC CABLE	ZONTA, Simone
(51) G21G 1/00	(73) GammaSwiss SA	(31) 201800004741
A61M 5/00	(72) Strupinskiy, Michael	(32) 20.04.2018
G01T 1/00	(51) H01B 13/00	(33) Italy
(11) EP3776599	H01L 33/42	(51) H01C 7/02
(21) EP19717076.4	H01L 31/0224	H01M 10/0562
(47) 13.09.2023	(11) EP3683809	H01M 10/42
(87) US2019024515	(21) EP19767791.7	H01G 11/04
03.10.2019	(47) 13.09.2023	H01G 11/16
(22) 28.03.2019	(87) KR2019002782	H01G 11/26
(54) EARLY DETECTION OF RADIOISOTOPE GENERATOR END LIFE	19.09.2019	H01M 50/581
(73) Bracco Diagnostics Inc.	(22) 11.03.2019	(11) EP3599654
(72) NUNN, Adrian	(54) EMBEDDED-TYPE TRANSPARENT ELECTRODE SUBSTRATE AND METHOD FOR MANUFACTURING SAME	(21) EP19186701.9
(31) 201862649556 P	(73) LG CHEM, LTD.	(47) 13.09.2023
(32) 28.03.2018	(72) SON, Yong Goo	(22) 17.07.2019
(33) United States of America	LEE, Kun Seok	(54) SOLID-STATE BATTERY
(51) G21K 5/04	MOON, Jung Ok	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
A61L 2/08	LEE, Kiseok	(72) OSE, Norihiro
B65B 55/08	LEE, Seung Heon	SUZUKI, Tomoya
G21K 1/093	(31) 20180029686	HASEGAWA, Hajime
G21K 5/10	(32) 14.03.2018	YASO, Kazuo
B65B 55/04	(33) Korea (Republic)	NISHIMURA, Hideaki
(11) EP3579248	(51) H01B 13/012	MATSUSHITA, Yuki
(21) EP18748275.7	F03D 80/80	(31) 2018141557
(47) 13.09.2023	(11) EP3704722	(32) 27.07.2018
(87) JP2018003339	(21) EP18839673.3	(33) Japan
09.08.2018	(47) 13.09.2023	(51) H01F 17/00
(22) 01.02.2018	(87) DK2018050275	H05K 1/16
(54) NOZZLE-TYPE ELECTRON BEAM IRRADIATION DEVICE	09.05.2019	H01F 41/04
(73) Hitachi Zosen Corporation	(22) 30.10.2018	(11) EP3800651
(72) NODA, Takeshi	(54) ELECTRIC WIRE HARNESS	(21) EP20199446.4
TANAKA, Ryuta	(73) KK Wind Solutions A/S	(47) 13.09.2023
SAKAI, Ichiro	(72) MUÑOZ PEREA, Mario Alberto	(22) 30.09.2020
(31) 2017018020	(31) PA201770815	(54) WIRING SUBSTRATE HAVING INDUCTOR FUNCTION AND METHOD FOR PRODUCING THE SAME
(32) 03.02.2017	(32) 31.10.2017	(73) AJINOMOTO CO., INC.
(33) Japan	(33) Denmark	(72) OYAMA, Hideki
(51) H01B 1/12	(51) H01B 13/012	TANAKA, Takayuki
C09D 5/44	H01R 43/28	HAGIWARA, Chihiro
C08L 53/02	(11) EP2994923	(31) 2019182431
	(21) EP14727882.4	(32) 02.10.2019
	(47) 13.09.2023	(33) Japan
		(51) H01F 27/245



H01F 1/16	(47) 13.09.2023	LAURENT, Jérôme
C21D 8/12	(22) 31.01.2019	BERARD, David
H01F 41/02	(54) MAGNETIC COMPONENT AND	<hr/>
C22C 38/00	SWITCH POWER SUPPLY DEVICE	(51) H01H 9/16
C21D 9/46	(73) Delta Electronics, Inc.	H01H 19/03
C21D 10/00	(72) LU, Zengyi	H01H 19/46
(11) EP3780036	HONG, Tianding	(11) EP4016573
(21) EP19775886.5	YANG, Haijun	(21) EP21306769.7
(47) 13.09.2023	ZHANG, Jinfa	(47) 13.09.2023
(87) JP2019014271	(31) 201810522699	(22) 14.12.2021
03.10.2019	(32) 28.05.2018	(54) AUTOMATIC TRANSFER SWITCH
(22) 29.03.2019	(33) China	(73) Schneider Electric Industries SAS
(54) IRON CORE FOR TRANSFORMER	<hr/>	(72) SHEN, Zhongrui
(73) JFE Steel Corporation	(51) H01F 38/14	LIU, Zhenzhong
(72) OMURA, Takeshi	H01Q 3/36	XIE, Xi
INOUE Hirotaka	H01Q 9/04	ZHOU, Bin
OKABE Seiji	H02J 5/00	ZHOU, Junjie
(31) 2018069889	H02J 7/02	(31) 202023014252 U
(32) 30.03.2018	(11) EP3635760	(32) 15.12.2020
(33) Japan	(21) EP18814441.4	(33) China
<hr/>	(47) 13.09.2023	<hr/>
(51) H01F 27/28	(87) US2018036321	(51) H01H 9/28
H01F 38/14	13.12.2018	(11) EP3809435
H02J 50/10	(22) 06.06.2018	(21) EP20200892.6
H01F 27/34	(54) METHOD FOR WIRELESS POWER	(47) 13.09.2023
(11) EP3809430	DELIVERY	(22) 08.10.2020
(21) EP19917242.0	(73) Reach Power, Inc.	(54) PROTECTION CIRCUIT BLOCKING
(47) 13.09.2023	(72) GUSTAVO, Navarro	DEVICE
(87) CN2019110297	RAMASWAMY, Varun	(73) ABUS August Bremicker Söhne KG
03.09.2020	DAVLANTES, Christopher, Joseph	(31) 102019127618
(22) 10.10.2019	(31) 201762516572 P	(32) 14.10.2019
(54) COIL MODULE, WIRELESS CHARGING	201762515962 P	(33) Germany
TRANSMITTING DEVICE, WIRELESS	(32) 07.06.2017	<hr/>
CHARGING RECEIVING DEVICE,	06.06.2017	(51) H01H 9/56
WIRELESS CHARGING SYSTEM, AND	(33) United States of America	H01H 50/00
MOBILE TERMINAL	United States of America	(11) EP3799094
(73) HUAWEI TECHNOLOGIES CO., LTD.	<hr/>	(21) EP20198579.3
(72) ZHU, Yongfa	(51) H01G 11/78	(47) 13.09.2023
CHEN, Xiaowei	(11) EP3419075	(22) 28.09.2020
DING, Tao	(21) EP17753216.5	(54) SYSTEMS AND METHODS FOR
ZENG, Zhiqiang	(47) 13.09.2023	UTILIZING POW SWITCHING TO
YANG, Chang	(87) JP2017005513	SYNCHRONIZE WITH A ROTATING
HE, Zhaodong	24.08.2017	LOAD
(31) 201910151680	(22) 15.02.2017	(73) Rockwell Automation Technologies, Inc.
(32) 28.02.2019	(54) EXTERIOR MATERIAL FOR POWER	(72) ELMIGER, David
(33) China	STORAGE DEVICES, AND METHOD	OMARI, Ahmad K.
<hr/>	FOR PRODUCING EXTERIOR	DZIEKONSKI, Stefan T.
(51) H01F 37/00	MATERIAL FOR POWER STORAGE	LANGER, Randall S.
H01F 27/16	DEVICES	(31) 201916588323
H01F 27/22	(73) Toppan Printing Co., Ltd.	(32) 30.09.2019
(11) EP3836174	(72) IJUN Wataru	(33) United States of America
(21) EP19865846.0	SUZUTA Masayoshi	<hr/>
(47) 13.09.2023	(31) 2016076627	(51) H01H 25/04
(87) JP2019020235	2016028892	G05G 9/047
02.04.2020	(32) 06.04.2016	(11) EP4009344
(22) 22.05.2019	18.02.2016	(21) EP20383047.6
(54) REACTOR	(33) Japan	(47) 13.09.2023
(73) Meidensha Corporation	Japan	(22) 01.12.2020
(72) YAMAMOTO, Yuka	<hr/>	(54) MULTI-SWITCH
KODACHI, Keiichi	(51) H01H 3/42	(73) Simon, S.A.U.
TEY, Kuan Chung	H01H 33/02	(72) Rojas Adamez, Jesús Baldemar
(31) 2019084897	H01H 33/50	Rique Rebull, Adria
2018183871	H01H 33/70	Plaja Miró, Salvi
(32) 26.04.2019	(11) EP3828909	Batiste Mayas, Clara
28.09.2018	(21) EP19212719.9	Vázquez Villa, Francesc Xavier
(33) Japan	(47) 13.09.2023	<hr/>
Japan	(22) 29.11.2019	(51) H01H 36/00
<hr/>	(54) CIRCUIT BREAKER WITH SIMPLIFIED	A44B 11/25
(51) H01F 38/00	NON-LINEAR DOUBLE MOTION	B60R 22/48
(11) EP3576116	(73) General Electric Technology GmbH	(11) EP3780058
(21) EP19154662.1	(72) ROGNARD, Quentin	(21) EP19819169.4
		(47) 13.09.2023

- (87) JP2019019062  
19.12.2019  
(22) 14.05.2019  
(54) BUCKLE SWITCH AND BUCKLE  
(73) Joyson Safety Systems Japan G.K.  
(72) NAKAGAWA, Tomofumi  
(31) 2018113700  
(32) 14.06.2018  
(33) Japan
- 
- (51) H01H 50/54  
H01H 50/56  
H01H 50/64  
H01H 50/26  
(11) EP4002416  
(21) EP21208635.9  
(47) 13.09.2023  
(22) 16.11.2021  
(54) ELECTROMAGNETIC RELAY WITH AN  
ELASTICALLY DEFORMABLE MOVING  
MEMBER  
(73) Xiamen Hongfa Electroacoustic Co., Ltd.  
(72) CHEN, Kun  
TAN, Zhonghua  
LIU, Jinqiang  
LIN, Zhengji  
HONG, Fangang  
(31) 202120500180 U  
202011279016  
(32) 09.03.2021  
16.11.2020  
(33) China  
China
- 
- (51) H01H 71/50  
H01H 73/50  
(11) EP3249674  
(21) EP17158222.4  
(47) 13.09.2023  
(22) 27.02.2017  
(54) LATCHING DEVICE AND RELEASE  
MECHANISM  
(73) Siemens Aktiengesellschaft  
(72) Lehmann, Stephan  
(31) 102016208930  
(32) 24.05.2016  
(33) Germany
- 
- (51) H01H 73/06  
H01H 73/18  
H01H 33/20  
(11) EP3998622  
(21) EP20836242.6  
(47) 13.09.2023  
(87) JP2020019716  
14.01.2021  
(22) 19.05.2020  
(54) AIR CIRCUIT BREAKER  
(73) MITSUBISHI ELECTRIC  
CORPORATION  
(72) NAKATA, Tomohiro  
MATSUMURA, Kohei  
(31) 2019128879  
(32) 11.07.2019  
(33) Japan
- 
- (51) H01J 35/08  
(11) EP3462474  
(21) EP18201453.0  
(47) 13.09.2023  
(22) 20.11.2014
- (54) TRANSMITTING-TYPE TARGET AND X-  
RAY GENERATION TUBE PROVIDED  
WITH TRANSMITTING-TYPE TARGET  
(73) CANON KABUSHIKI KAISHA  
(72) YAMADA, Shuji  
TSUKAMOTO, Takeo  
OGURA, Takao  
YOSHITAKE, Tadayuki  
(73) IKARASHI, Yoichi  
(31) 2014184462  
2013253635  
2013253634  
(32) 10.09.2014  
06.12.2013  
06.12.2013  
(33) Japan  
Japan  
Japan
- 
- (51) H01J 37/295  
(11) EP3699949  
(21) EP20157514.9  
(47) 13.09.2023  
(22) 14.02.2020  
(54) INTERFEROMETRIC ELECTRON  
MICROSCOPE  
(73) Hitachi, Ltd.  
RIKEN  
(72) TANIGAKI, Toshiaki  
AKASHI, Tetsuya  
HARADA, Ken  
(31) 2019030348  
(32) 22.02.2019  
(33) Japan
- 
- (51) H01J 37/32  
(11) EP3719833  
(21) EP20166698.9  
(47) 13.09.2023  
(22) 30.03.2020  
(54) SURFACE PROCESSING APPARATUS  
(73) Oxford Instruments Nanotechnology  
Tools Limited  
(72) COOKE, Mike  
GOODYEAR, Andrew  
(31) 201904587  
(32) 02.04.2019  
(33) United Kingdom
- 
- (51) H01J 37/32  
C23C 16/50  
(11) EP3671805  
(21) EP19217438.1  
(47) 13.09.2023  
(22) 18.12.2019  
(54) DEVICE AND METHOD FOR COATING  
AND ESPECIALLY FOR PLASMA  
COATING CONTAINERS  
(73) Kronos AG  
(72) Krüger, Jochen  
Ortner, Nadine  
(31) 102018132700  
(32) 18.12.2018  
(33) Germany
- 
- (51) H01J 37/32  
H03F 3/217  
(11) EP3698395  
(21) EP18868369.2  
(47) 13.09.2023  
(87) US2018056119  
25.04.2019
- (22) 16.10.2018  
(54) MATCHLESS PLASMA SOURCE  
FOR SEMICONDUCTOR WAFER  
FABRICATION AND METHOD FOR  
PROVIDING RADIO FREQUENCY  
POWER TO AN ELECTRODE OF A  
PLASMA CHAMBER  
(73) Lam Research Corporation  
(72) LONG, Maolin  
WANG, Yuhou  
MARSH, Ricky  
PATERSON, Alex  
(31) 201715787660  
(32) 18.10.2017  
(33) United States of America
- 
- (51) H01J 49/04  
H01J 49/00  
G01N 27/623  
(11) EP3654365  
(21) EP19217802.8  
(47) 13.09.2023  
(22) 26.08.2016  
(54) MASS SPECTROMETRY DEVICE  
(73) Hamamatsu Photonics K.K.  
(72) NAITO, Yasuhide  
KOTANI, Masahiro  
OHMURA, Takayuki  
(31) 2015173590  
(32) 03.09.2015  
(33) Japan
- 
- (51) H01J 49/06  
(11) EP3776625  
(21) EP19716879.2  
(47) 13.09.2023  
(87) EP2019058723  
10.10.2019  
(22) 05.04.2019  
(54) ION GUIDE COMPRISING ELECTRODE  
PLATES AND ION BEAM DEPOSITION  
SYSTEM  
(73) Technische Universität München  
(72) SCHLICHTING, Hartmut  
BARTH, Johannes  
WALZ, Andreas  
(31) 18165948  
18165949  
18165950  
(32) 05.04.2018  
05.04.2018  
05.04.2018  
(33) European Patent Office (EPO)  
European Patent Office (EPO)  
European Patent Office (EPO)
- 
- (51) H01J 49/28  
H01J 49/20  
H01F 7/20  
(11) EP3414771  
(21) EP17702892.5  
(47) 13.09.2023  
(87) EP2017052635  
17.08.2017  
(22) 07.02.2017  
(54) FLOATING MAGNET FOR A MASS  
SPECTROMETER  
(73) Luxembourg Institute of Science and  
Technology (LIST)  
(72) ANDRZEJEWSKI, Roch  
BARRAHMA, Rachid

DOWSETT, David	C08K 3/08	(31) 201715609860
WIRTZ, Tom	(11) EP3433876	(32) 31.05.2017
(31) 92970	(21) EP17713255.2	(33) United States of America
(32) 08.02.2016	(47) 13.09.2023	<hr/>
(33) Luxembourg	(87) EP2017056945	(51) H01L 23/12
(51) H01L 21/20	28.09.2017	H01L 23/02
H01L 33/16	(22) 23.03.2017	H01L 23/36
C30B 25/04	(54) A SPLITTING METHOD	H01L 25/04
C30B 25/18	(73) Siltectra GmbH	H01L 25/18
C30B 29/40	(72) BEYER, Christian	H01S 5/024
(11) EP3146558	RICHTER, Jan	H05K 3/46
(21) EP15725563.9	SWOBODA, Marko	H01L 23/373
(47) 13.09.2023	(31) 102016123679	H01L 23/15
(87) EP2015061132	102016105616	H05K 1/02
26.11.2015	(32) 07.12.2016	H05K 1/03
(22) 20.05.2015	24.03.2016	H05K 1/11
(54) METHOD FOR MANUFACTURING	(33) Germany	H01L 23/40
A SEMICONDUCTOR MATERIAL	Germany	H01L 33/64
INCLUDING A SEMI-POLAR III-NITRIDE	(51) H01L 21/67	(11) EP3690930
LAYER	G02B 5/28	(21) EP18861408.5
(73) Centre National de la Recherche	H01L 21/68	(47) 13.09.2023
Scientifique (CNRS)	H01L 21/683	(87) JP2018035663
(72) DE MIERRY, Philippe	(11) EP3712929	04.04.2019
TENDILLE, Florian	(21) EP18877949.0	(22) 26.09.2018
VENNEGUES, Philippe	(47) 13.09.2023	(54) SUBSTRATE FOR MOUNTING
(31) 1454507	(87) JP2018041728	ELECTRONIC ELEMENT, AND
(32) 20.05.2014	23.05.2019	ELECTRONIC DEVICE
(33) France	(22) 09.11.2018	(73) KYOCERA CORPORATION
(51) H01L 21/28	(54) SUCTION METHOD	(72) MORITA, Yukio
H10B 53/30	(73) Hamamatsu Photonics K.K.	KITAZUMI, Noboru
H10B 51/30	(72) HIROSE, Masaki	(31) 2017188493
G03F 7/004	SHIBAYAMA, Katsumi	(32) 28.09.2017
G03F 7/038	KASAHARA, Takashi	(33) Japan
H01L 29/786	KAWAI, Toshimitsu	<hr/>
H10N 97/00	OYAMA, Hiroki	(51) H01L 23/36
C08F 212/08	KURAMOTO, Yumi	H01L 23/12
G03F 7/033	(31) 2017221852	H01L 23/373
C08F 220/32	(32) 17.11.2017	H05K 1/02
C08K 3/22	(33) Japan	H05K 7/20
C09D 125/08	(51) H01L 21/67	C04B 37/02
(11) EP3382751	H01L 21/683	C04B 35/645
(21) EP16868506.3	(11) EP3772747	(11) EP3605601
(47) 13.09.2023	(21) EP20188669.4	(21) EP18774268.9
(87) JP2016084483	(47) 13.09.2023	(47) 13.09.2023
01.06.2017	(22) 30.07.2020	(87) JP2018007605
(22) 21.11.2016	(54) POSITIONING TOOL	04.10.2018
(54) FERROELECTRIC MEMORY	(73) Trixell	(22) 28.02.2018
ELEMENT, METHOD FOR PRODUCING	(72) JANVIER, Yannick	(54) METHOD FOR PRODUCING
SAME, MEMORY CELL USING	(31) 1908964	INSULATED CIRCUIT BOARD WITH
FERROELECTRIC MEMORY ELEMENT,	(32) 05.08.2019	HEAT SINK
AND RADIO COMMUNICATION DEVICE	(33) France	(73) Mitsubishi Materials Corporation
USING FERROELECTRIC MEMORY	(51) H01L 21/768	(72) YUMOTO Ryouhei
ELEMENT	H01L 23/48	OOHIRAKI Tomoya
(73) Toray Industries, Inc.	H01L 23/532	KITAHARA Takeshi
(72) WAKITA, Junji	H01L 21/288	NAGATOMO Yoshiyuki
SHIMIZU, Hiroji	(11) EP3639295	(31) 2017064878
KAWAI, Shota	(21) EP17811292.6	(32) 29.03.2017
MURASE, Seiichiro	(47) 13.09.2023	(33) Japan
(31) 2016084207	(87) EP2017081792	<hr/>
2015229337	06.12.2018	(51) H01L 25/075
(32) 20.04.2016	(22) 07.12.2017	H01L 33/44
25.11.2015	(54) SUPERCONDUCTING THROUGH-	H01L 33/50
(33) Japan	SILICON-VIAS AND THEIR METHOD	H01L 33/54
Japan	OF FABRICATION	H01L 33/56
(51) H01L 21/304	(73) International Business Machines	(11) EP3806149
C09J 183/02	Corporation	(21) EP20200191.3
H01L 21/56	(72) ABRAHAM, David	(47) 13.09.2023
H01L 21/02	COTTE, John, Michael	(22) 06.10.2020
		(54) ELECTRONIC DEVICE AND METHOD
		OF MANUFACTURING ELECTRONIC
		DEVICE

(73) InnoLux Corporation	SHIN, Hyeonjin	(31) 201705755
(72) CHEN, Yi-An	(31) 20200009396	(32) 10.04.2017
KUO, Kuan-Hung	(32) 23.01.2020	(33) United Kingdom
HSIEH, Tsau-Hua	(33) Korea (Republic)	
CHENG, Kai	(51) H01L 31/0236	(51) H01L 33/00
HUANG, Wan-Ling	H01L 31/0368	H01L 33/62
(31) 201910955815	H01L 31/0224	H05K 13/04
(32) 09.10.2019	H01L 21/306	(11) EP3828940
(33) China	(11) EP3910689	(21) EP18927910.2
(51) H01L 25/075	(21) EP20738645.9	(47) 13.09.2023
H01L 33/44	(47) 13.09.2023	(87) JP2018027623
H01L 33/50	(87) KR2020000021	30.01.2020
H01L 33/60	16.07.2020	(22) 24.07.2018
(11) EP3608958	(22) 02.01.2020	(54) COMPONENT MOUNTING METHOD
(21) EP19170321.4	(54) SOLAR CELL PREPARATION METHOD	AND WORK SYSTEM
(47) 13.09.2023	(73) Shangrao Jinko solar Technology	(73) Fuji Corporation
(22) 18.04.2019	Development Co., LTD	(72) SAKURAYAMA, Takeshi
(54) DISPLAY DEVICE	(72) CHANG, Wonjae	(51) H01L 33/48
(73) Samsung Display Co., Ltd	KIM, Sungjin	H01L 25/075
(72) KIM, Dong Uk	DO, Younggu	H01L 33/50
CHO, Hyun Min	CHEONG, Juhwa	H01L 33/54
SONG, Keun Kyu	AHN, Junyong	(11) EP3284113
KIM, Dae Hyun	CHO, Haejong	(21) EP16725752.6
MIN, Jung Hong	KO, Jisoo	(47) 13.09.2023
LEE, Seung A	(31) 20190007668	(87) AT2016050099
CHA, Hyung Rae	20190002792	20.10.2016
(31) 20180091429	(32) 21.01.2019	(22) 15.04.2016
(32) 06.08.2018	09.01.2019	(54) METHOD FOR MANUFACTURING LED
(33) Korea (Republic)	(33) Korea (Republic)	MODULE FOR EMITTING WHITE LIGHT
(51) H01L 25/13	Korea (Republic)	(73) Tridonic GmbH & Co. KG
G09F 9/33	(51) H01L 31/18	(72) PACHLER, Peter
H01L 25/075	H01L 21/66	(31) 102015206972
H01L 33/00	H02S 50/15	(32) 17.04.2015
H01L 33/52	(11) EP3933939	(33) Germany
(11) EP4152389	(21) EP19923650.6	(51) H01L 33/48
(21) EP22191982.2	(47) 13.09.2023	H01L 33/50
(47) 13.09.2023	(87) CN2019126580	H01L 25/075
(22) 24.08.2022	08.10.2020	(11) EP3361518
(54) METHOD FOR PREPARING A LIGHT-	(22) 19.12.2019	(21) EP17211167.6
EMITTING DIODE-BASED DISPLAY	(54) METHOD FOR PROCESSING	(47) 13.09.2023
MODULE	PHOTOVOLTAIC MODULE	(22) 29.12.2017
(73) Leyard Optoelectronic Co., Ltd.	(73) Jiangsu Coop&Inno Green Energy	(54) LIGHT EMITTING DEVICE PACKAGE
(72) ZHENG, Wei	Technology Co., Ltd.	AND ELECTRONIC APPARATUS
WANG, Mengqiang	Wuxi Coop&Inno Green Energy	(73) LG Display Co., Ltd.
MA, Li	Technology Co., Ltd.	(72) MOON, JeYoung
(31) 202111094226	Wuxi Dingsenmao Technology Co., Ltd.	HAN, SangHo
(32) 17.09.2021	(72) ZHANG, Yujun	(31) 20170018945
(33) China	TAO, Aibing	(32) 10.02.2017
(51) H01L 29/786	SHEN, Jia	(33) Korea (Republic)
H01L 29/51	(31) 201910248480	(51) H01M 4/06
H01L 29/10	(32) 29.03.2019	H01M 4/62
H01L 29/24	(33) China	H01M 6/16
H01L 29/49	(51) H01L 33/00	H01M 4/40
(11) EP3855507	H01L 33/16	H01M 4/38
(21) EP21152508.4	H01L 33/08	H01M 4/50
(47) 13.09.2023	H01L 33/24	H01M 6/50
(22) 20.01.2021	(11) EP3610518	H01M 4/02
(54) FIELD EFFECT TRANSISTOR	(21) EP18717339.8	(11) EP3828961
INCLUDING GATE INSULATING LAYER	(47) 13.09.2023	(21) EP19841286.8
FORMED OF TWO-DIMENSIONAL	(87) EP2018059205	(47) 13.09.2023
MATERIAL	18.10.2018	(87) JP2019014568
(73) Samsung Electronics Co., Ltd.	(22) 10.04.2018	30.01.2020
Seoul National University R & DB	(54) NANOSTRUCTURE	(22) 02.04.2019
Foundation	(73) Norwegian University of Science and	(54) LITHIUM PRIMARY CELL AND SMART
(72) LEE, Minhyun	Technology (NTNU)	METER
SEOL, Minsu	(72) FIMLAND, Bjørn Ove Myking	(73) Panasonic Intellectual Property
JANG, Ho Won	WEMAN, Helge	Management Co., Ltd.
CHO, Yeonchoo	REN, Dingding	(72) KOSUGE, Keiko
		KATO, Fumio

SHIMIZU, Toshiyuki KAWAHARA, Yusuke (31) 2018137982 (32) 23.07.2018 (33) Japan	(73) LG Energy Solution, Ltd. (72) KIM, Kihyun YANG, Doo Kyung KIM, Taek Gyoung SONG, Jieun	H01M 4/525 (11) EP3486980 (21) EP17827593.9 (47) 13.09.2023 (87) JP2017025174 18.01.2018
(51) H01M 4/13 H01M 4/38 H01M 4/62 H01M 10/052 H01M 10/0565 H01M 10/0568 H01M 4/136 H01M 4/40 H01M 4/58	(31) 20180025118 20170160725 20170059849 (32) 02.03.2018 28.11.2017 15.05.2017 (33) Korea (Republic) Korea (Republic) Korea (Republic)	(22) 10.07.2017 (54) POSITIVE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY, METHOD FOR PRODUCING SAME, AND LITHIUM SECONDARY BATTERY (73) GS Yuasa International Ltd. Bafsi Toda Battery Materials LLC (72) INOUE Katsuya
(11) EP3714498 (21) EP18825746.3 (47) 13.09.2023 (87) FR2018052896 23.05.2019 (22) 19.11.2018 (54) USE OF A MIXTURE OF SALTS AS ADDITIVE IN A GELIFIED LITHIUM BATTERY (73) Blue Solutions (72) DESCHAMPS, Marc LECUYER, Margaud BOUCHET, Renaud ROLLAND, Julien	(51) H01M 4/36 H01M 4/525 H01M 4/505 H01M 4/485 H01M 10/052 H01M 4/131 (11) EP3696894 (21) EP18881779.5 (47) 13.09.2023 (87) KR2018014379 31.05.2019 (22) 21.11.2018 (54) CATHODE MATERIAL FOR LITHIUM SECONDARY BATTERY, AND CATHODE AND LITHIUM SECONDARY BATTERY WHICH COMPRISE SAME (73) LG Energy Solution, Ltd. (72) LEE, Dong Hun JUNG, Wang Mo PARK, Sung Bin KIM, Ji Hye KIM, Dong Hwi CHO, Hyung Man HAN, Jung Min	(21) 2016235200 2016138913 (32) 02.12.2016 13.07.2016 (33) Japan Japan (51) H01M 4/583 H01M 10/0525 H01M 4/133 H01M 50/103 H01M 50/209 H01M 50/557 H01M 4/131 H01M 4/36 H01M 4/505 H01M 4/525 H01M 4/02 (11) EP3955359 (21) EP20928386.0 (47) 13.09.2023 (87) CN2020083055 07.10.2021 (22) 02.04.2020 (54) SECONDARY BATTERY AND DEVICE COMPRISING SECONDARY BATTERY (73) Contemporary Amperex Technology Co., Limited (72) DONG, Xiaobin WANG, Jiazheng KANG, Meng HE, Libing
(31) 1760903 (32) 20.11.2017 (33) France (51) H01M 4/131 H01M 4/38 H01M 4/485 H01M 4/62 H01M 10/0562 H01M 10/0525 (11) EP3745498 (21) EP18902104.1 (47) 13.09.2023 (87) JP2018045587 01.08.2019 (22) 12.12.2018 (54) NEGATIVE ELECTRODE MATERIAL AND BATTERY USING SAME (73) Panasonic Intellectual Property Management Co., Ltd. (72) SUGIMOTO, Yuta SASAKI, Izuru OSHIMA, Tatsuya MIYAZAKI, Akinobu	(31) 20170155957 (32) 21.11.2017 (33) Korea (Republic) (51) H01M 4/36 H01M 4/587 H01M 10/0525 H01M 4/04 H01M 4/133 H01M 4/02 (11) EP3736887 (21) EP19766534.2 (47) 13.09.2023 (87) KR2019002988 19.09.2019 (22) 14.03.2019 (54) ANODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY AND ANODE FOR LITHIUM SECONDARY BATTERY COMPRISING SAME (73) LG Energy Solution, Ltd. (72) CHOI, Hee Won LEE, Jae Wook KIM, Eun Kyung CHOI, Seung Youn KIM, Je Young	(21) 2016138913 (32) 02.12.2016 13.07.2016 (33) Japan Japan (51) H01M 4/583 H01M 10/0525 H01M 4/133 H01M 50/103 H01M 50/209 H01M 50/557 H01M 4/131 H01M 4/36 H01M 4/505 H01M 4/525 H01M 4/02 (11) EP3955359 (21) EP20928386.0 (47) 13.09.2023 (87) CN2020083055 07.10.2021 (22) 02.04.2020 (54) SECONDARY BATTERY AND DEVICE COMPRISING SECONDARY BATTERY (73) Contemporary Amperex Technology Co., Limited (72) DONG, Xiaobin WANG, Jiazheng KANG, Meng HE, Libing (51) H01M 4/62 (11) EP4042501 (21) EP20790227.1 (47) 13.09.2023 (87) EP2020078201 15.04.2021 (22) 08.10.2020 (54) USE OF A COMPOSITE MATERIAL FOR ABSORBING AND DISTRIBUTING LIQUIDS IN ACTIVELY AND/OR PASSIVELY COOLED CURRENT- CARRYING SYSTEMS (73) Carl Freudenberg KG (72) SCHNEIDER, Ulrich SENNE, Sarah KRITZER, Peter
(31) 2018011529 (32) 26.01.2018 (33) Japan (51) H01M 4/134 H01M 4/1395 H01M 4/36 H01M 4/38 H01M 10/052 (11) EP3547414 (21) EP18802680.1 (47) 13.09.2023 (87) KR2018002934 22.11.2018 (22) 13.03.2018 (54) LITHIUM ELECTRODE AND LITHIUM SECONDARY BATTERY COMPRISING SAME	(31) 20180030501 (32) 15.03.2018 (33) Korea (Republic) (51) H01M 4/505 C01G 53/00	(21) 102019127180 (32) 09.10.2019 (33) Germany (51) H01M 8/04225

H01M 8/04302	B01D 67/00	Samsung SDI Co., Ltd.
H01M 8/04701	B01D 69/02	(72) HWANG, Seungsik
H01M 8/06	B01D 71/26	KIM, Soyeon
H01M 8/0612	B01D 71/34	KIM, Jaeeun
H01M 8/12	B01D 71/36	(31) 20180002293
H01M 8/04014	B01D 71/48	(32) 08.01.2018
H01M 8/04007	B01D 71/50	(33) Korea (Republic)
H01M 8/0432	B01D 71/64	(51) H01M 10/0565
H01M 8/124	B01D 71/02	H01M 10/052
(11) EP3392946	H01M 50/403	H01M 10/0566
(21) EP16875243.4	(11) EP3639310	H01M 10/0569
(47) 13.09.2023	(21) EP18733211.9	H01M 4/02
(87) JP2016081140	(47) 13.09.2023	H01M 4/36
22.06.2017	(87) EP2018065901	H01M 4/38
(22) 20.10.2016	20.12.2018	H01M 4/40
(54) FUEL CELL SYSTEM AND CONTROL	(22) 14.06.2018	(11) EP3442068
METHOD FOR FUEL CELL SYSTEM	(54) USE OF A POROUS POLYMER	(21) EP17856768.1
(73) Nissan Motor Co., Ltd.	ETCHED ION-TRACK MEMBRANE AS	(47) 13.09.2023
(72) MAESHIMA, Susumu	A SEPARATOR FOR A BATTERY	(87) KR2017010783
(31) 2015244516	(73) Centre National de la Recherche	05.04.2018
(32) 15.12.2015	Scientifique - CNRS	(22) 28.09.2017
(33) Japan	Université de Picardie Jules Verne	(54) LITHIUM SECONDARY BATTERY
(51) H01M 10/04	GSI Helmholtzzentrum für	(73) LG Energy Solution, Ltd.
(11) EP3565027	Schwerionenforschung GmbH	(72) PARK, Changhun
(21) EP18770229.5	Technische Universität Darmstadt	JANG, Minchul
(47) 13.09.2023	(72) TOIMIL MOLARES, Maria Eugenia	SON, Byoungkuk
(87) KR2018003397	TRAUTMAN, Christina	PARK, Eunkyung
27.09.2018	LEE, Pui Lap Jacob	CHOI, Junghun
(22) 22.03.2018	MORCRETTE, Mathieu	(31) 20170124872
(54) CAP ASSEMBLY COMPRISING GUIDE	(31) 17305729	20160127000
MEMBER FOR PREVENTING ESCAPE	(32) 14.06.2017	(32) 27.09.2017
OF SAFETY VENT	(33) European Patent Office (EPO)	30.09.2016
(73) LG Energy Solution, Ltd.	(51) H01M 10/0525	(33) Korea (Republic)
(72) Ji, Sang Gu	H01M 4/485	Korea (Republic)
KIM, Sang Uck	H01M 4/505	(51) H01M 10/0567
BOK, Cheon Hee	H01M 4/525	H01M 10/0568
LEE, Myung An	H01M 10/0569	H01M 10/052
PARK, Geun Young	(11) EP3540841	H01M 4/38
KIM, Yong Han	(21) EP17869338.8	H01M 4/40
KIM, Da Na	(47) 13.09.2023	H01M 4/58
(31) 20170036732	(87) JP2017040773	(11) EP3664213
(32) 23.03.2017	17.05.2018	(21) EP18868454.2
(33) Korea (Republic)	(22) 13.11.2017	(47) 13.09.2023
(51) H01M 10/04	(54) NON-AQUEOUS ELECTROLYTE	(87) KR2018011813
H01M 10/0525	BATTERY AND BATTERY PACK	25.04.2019
H01M 10/0562	(73) Kabushiki Kaisha Toshiba	(22) 08.10.2018
H01M 10/0585	Toshiba Infrastructure Systems &	(54) ELECTROLYTE FOR LITHIUM METAL
(11) EP3675263	Solutions Corporation	BATTERY AND LITHIUM METAL
(21) EP19219373.8	(72) HAGIWARA, Asuna	BATTERY COMPRISING SAME
(47) 13.09.2023	YAMAMOTO, Dai	(73) LG Energy Solution, Ltd.
(22) 23.12.2019	TANAKA, Masanori	(72) KIM, Kihyun
(54) ALL-SOLID BATTERY	(31) 2016221136	SHIN, Dongseok
(73) Panasonic Intellectual Property	(32) 14.11.2016	YANG, Doo Kyung
Management Co., Ltd.	(33) Japan	JIN, Sun Mi
(72) HORIKAWA, Akihiro	(51) H01M 10/0565	PARK, Intae
MIYATAKE, Kazufumi	H01M 10/052	(31) 20180118569
OKOCHI, Motohiro	C08G 65/332	20170134320
(31) 2019218456	C08K 3/105	(32) 05.10.2018
2018248456	C08F 220/28	17.10.2017
(32) 03.12.2019	(11) EP3509149	(33) Korea (Republic)
28.12.2018	(21) EP18206966.6	Korea (Republic)
(33) Japan	(47) 13.09.2023	(51) H01M 10/0567
Japan	(22) 19.11.2018	H01M 10/0569
(51) H01M 10/052	(54) POLYMER ELECTROLYTE, POLYMER,	H01M 10/052
H01M 10/054	ELECTROCHEMICAL DEVICE, AND	H01M 10/0525
H01M 12/06	METHOD OF PREPARING THE	H01M 10/0568
H01M 50/414	POLYMER	(11) EP3706229
H01M 50/489	(73) Samsung Electronics Co., Ltd.	(21) EP19763453.8

(47) 13.09.2023	(31) 20180053846	HANDLING AND BATTERY RECOVERY SYSTEM
(87) KR2019002605 12.09.2019	(32) 10.05.2018	(73) VOLKSWAGEN AG
(22) 06.03.2019	(33) Korea (Republic)	(72) Börger, Dr. Alexander Mertens, Jan
(54) NON-AQUEOUS ELECTROLYTE AND LITHIUM SECONDARY BATTERY COMPRISING SAME	(51) H01M 10/42	(31) 102020201697
(73) LG Energy Solution, Ltd.	G01R 31/396	(32) 11.02.2020
(72) SHIN, Won Kyung	G01L 1/16	(33) Germany
AHN, Kyoung Ho	H01M 10/48	(51) H01M 10/613
LEE, Chul Haeng	(11) EP3675272	H01M 10/6556
OH, Jeong Woo	(21) EP19793050.6	H01M 10/625
(31) 20180026545	(47) 13.09.2023	H01M 10/6551
(32) 06.03.2018	(87) KR2019003054	H01M 10/6562
(33) Korea (Republic)	31.10.2019	H01M 50/20
(51) H01M 10/0569	(22) 15.03.2019	B61C 3/02
H01M 10/0568	(54) SECONDARY BATTERY STATIC PRESSURE JIG AND METHOD FOR ADJUSTING INTERNAL PRESSURE OF SECONDARY BATTERY BY USING SAME	(11) EP3716394
H01M 10/0567	(73) LG Energy Solution, Ltd.	(21) EP18880785.3
H01M 10/0525	(72) YOON, Jong Keon	(47) 13.09.2023
H01M 10/42	HAH, Hoejin	(87) JP2018041472
(11) EP3832771	LEE, Jeongbeom	31.05.2019
(21) EP19865842.9	(31) 20180048098	(22) 08.11.2018
(47) 13.09.2023	(32) 25.04.2018	(54) ELECTRICITY STORAGE DEVICE AND RAILROAD CAR
(87) CN2019108606	(33) Korea (Republic)	(73) Kabushiki Kaisha Toshiba
02.04.2020	(51) H01M 10/42	Toshiba Infrastructure Systems & Solutions Corporation
(22) 27.09.2019	H01M 6/50	(72) KITAZAWA Yasuyuki
(54) NON-AQUEOUS ELECTROLYTE, LITHIUM-ION BATTERY, BATTERY MODULE, BATTERY PACK AND DEVICE	(11) EP3970225	YAMASHITA Mitsuyo
(73) Contemporary Amperex Technology Co., Limited	(21) EP20724146.4	KURISU Naoyuki
(72) LIANG, Chengdu	(47) 13.09.2023	YOSHINARI Hiroaki
CHEN, Peipei	(87) EP2020063207	(31) 2017226158
FU, Chenghua	19.11.2020	(32) 24.11.2017
FENG, Junmin	(22) 12.05.2020	(33) Japan
(31) 201811140347	(54) METHOD FOR EXTINGUISHING AN ELECTROCHEMICAL GENERATOR IN THE EVENT OF OF THERMAL RUNAWAY	(51) H01M 16/00
(32) 28.09.2018	(73) Commissariat à l'énergie atomique et aux énergies alternatives	H01M 10/06
(33) China	(72) BILLY, Emmanuel	H01M 10/44
(51) H01M 10/058	BRUN-BUISSON, David	H01M 10/0525
H01M 10/42	(31) 1905067	B60L 7/10
H01M 10/052	(32) 15.05.2019	(11) EP3570366
H01M 10/0567	(33) France	(21) EP19182222.0
H01M 4/134	(51) H01M 10/42	(47) 13.09.2023
H01M 4/36	H01M 10/48	(22) 24.01.2014
H01M 4/38	G01R 31/00	(54) SWITCHED PASSIVE ARCHITECTURES FOR BATTERIES HAVING TWO DIFFERENT CHEMISTRIES
H01M 50/46	(11) EP3982455	(73) CPS Technology Holdings LLC
(11) EP3694042	(21) EP21201490.6	(72) WYATT, Perry M.
(21) EP19800698.3	(47) 13.09.2023	LE, Daniel B.
(47) 13.09.2023	(22) 07.10.2021	MASCARENHAS, Ryan S.
(87) KR2019005667	(54) BATTERY CELL FOR CARRYING OUT A SECURITY TEST	SISK, Brian C.
14.11.2019	(73) Volkswagen Aktiengesellschaft	(31) 201414161858
(22) 10.05.2019	(72) Jahnke, Hannes	201361860448 P
(54) LITHIUM METAL SECONDARY BATTERY HAVING IMPROVED SAFETY AND BATTERY MODULE INCLUDING SAME	Nolte, Oliver	(32) 23.01.2014
(73) LG Energy Solution, Ltd.	(31) 102020126305	31.07.2013
Korea Advanced Institute Of Science And Technology	(32) 07.10.2020	(33) United States of America
(72) YOON, Jong-Keon	(33) Germany	United States of America
WOO, Kyung-Hwa	(51) H01M 10/48	(51) H01M 50/119
CHOI, Hyun-Jun	G01R 31/392	H01M 50/176
LEE, Hye-Jin	(11) EP3866250	H01M 50/367
HAH, Hoe-Jin	(21) EP21150009.5	H01M 50/342
KIM, Hee-Tak	(47) 13.09.2023	(11) EP3633763
ROH, Young-Il	(22) 04.01.2021	(21) EP18804935.7
JIN, Hyun-Soo	(54) METHOD FOR CATEGORIZING A BATTERY WITH RESPECT ITS SUITABILITY FOR FURTHER	(47) 13.09.2023
		(87) KR2018004164
		29.11.2018
		(22) 10.04.2018
		(54) SECONDARY BATTERY

(73) Samsung SDI Co., Ltd.	(87) US2019022047	(32) 29.06.2018
(72) GUEN, Min Hyung	19.09.2019	(33) European Patent Office (EPO)
(31) 20170062927	(22) 13.03.2019	(51) H01P 3/00
(32) 22.05.2017	(54) ANTENNA PHASE SHIFTER WITH	(11) EP4037094
(33) Korea (Republic)	INTEGRATED DC-BLOCK	(21) EP21305103.0
(51) H01M 50/258	(73) JOHN MEZZALINGUA ASSOCIATES,	(47) 13.09.2023
H01M 50/264	LLC D/B/A JMA WIRELESS	(22) 27.01.2021
H01M 50/271	(72) JANG, Taehee	(54) AN ELECTRICAL DEVICE
(11) EP3813146	(31) 201862642066 P	COMPRISING A COPLANAR
(21) EP20766914.4	(32) 13.03.2018	WAVEGUIDE WITH BURIED BRIDGES
(47) 13.09.2023	(33) United States of America	AND APERTURES
(87) CN2020077289	(51) H01P 1/18	(73) Murata Manufacturing Co., Ltd.
10.09.2020	H03H 7/38	(72) BOUVIER, Stéphane
(22) 28.02.2020	H01Q 1/00	IOCHEM, Sébastien
(54) PACKAGING HOUSING AND BATTERY	H01Q 1/24	AUBRY, Yves
PACK	H01Q 3/32	(51) H01P 5/107
(73) Ningde Amperex Technology Ltd.	(11) EP3910730	H04W 4/38
(72) JIA, Zhuocheng	(21) EP20759012.6	H04W 4/48
HUANG, Kanzhu	(47) 13.09.2023	H01Q 1/32
(31) 201910160967	(87) CN2020076081	H04L 12/40
(32) 04.03.2019	27.08.2020	(11) EP3506418
(33) China	(22) 20.02.2020	(21) EP18209354.2
(51) H01M 50/489	(54) PHASE SHIFTER AND ELECTRICALLY	(47) 13.09.2023
H01M 10/0525	TUNABLE ANTENNA	(22) 29.11.2018
H01M 50/403	(73) Huawei Technologies Co., Ltd.	(54) CRIMPED MM-WAVE WAVEGUIDE TAP
H01M 50/417	(72) LIU, Peng	CONNECTOR
H01M 50/457	LIU, Xinming	(73) INTEL Corporation
H01M 50/491	ZHANG, Hongzhi	(72) ELSHERBINI, Adel A.
(11) EP3224880	ZHOU, Jiejun	DOGIAMIS, Georgios C.
(21) EP15862644.0	(31) 201910134990	OSTER, Sasha N.
(47) 13.09.2023	(32) 20.02.2019	EWY, Erich N.
(87) US2015062400	(33) China	KAMGAING, Telesphor
02.06.2016	(51) H01P 1/20	SWAN, Johanna M.
(22) 24.11.2015	H01Q 1/52	(31) 201715859477
(54) IMPROVED MULTILAYER	H01Q 13/20	(32) 30.12.2017
MICROPOROUS SEPARATORS FOR	H01Q 13/22	(33) United States of America
LITHIUM ION SECONDARY BATTERIES	H01Q 21/00	(51) H01Q 1/04
AND RELATED METHODS	H01Q 21/28	H01Q 1/22
(73) Celgard LLC	(11) EP3859874	H01Q 1/20
(72) ZHANG, Xiaomin	(21) EP21151765.1	G01D 21/00
SHI, Lie	(47) 13.09.2023	E02D 29/14
PAULUS, William John	(22) 15.01.2021	H01Q 1/52
(31) 201462084655 P	(54) ELECTROMAGNETIC BAND GAP	(11) EP3651267
(32) 26.11.2014	STRUCTURE (EBG)	(21) EP18204575.7
(33) United States of America	(73) Aptiv Technologies Limited	(47) 13.09.2023
(51) H01P 1/04	(72) ROSSITER, Ryan K.	(22) 06.11.2018
(11) EP3754779	LI, Mingjian	(54) COVER ELEMENT WITH
(21) EP20178255.4	YAO, Jun	TRANSMITTER SYSTEM
(47) 13.09.2023	(31) 202016776799	(73) REMONDIS Aqua Industrie GmbH & Co.
(22) 04.06.2020	(32) 30.01.2020	KG
(54) DEVICE FOR ASSEMBLING TWO	(33) United States of America	(72) BEHRENS, Ralf
WAVEGUIDES	(51) H01P 1/38	LÜRING, Carsten
(73) THALES	G01B 9/02	LEYBOLD, Axel
Bal Seal Engineering, LLC	H01P 1/32	(51) H01Q 1/12
(72) VENDIER, Olivier	(11) EP3815175	H01Q 1/42
BREVART, Bertrand	(21) EP19714454.6	H01Q 1/32
FOUCTIERE, Gilbert	(47) 13.09.2023	(11) EP3934022
FORESTIER, Stéphane	(87) EP2019058649	(21) EP21180674.0
DUPUY, Didier	02.01.2020	(47) 13.09.2023
GRANT, Brandon	(22) 05.04.2019	(22) 21.06.2021
(31) 1906651	(54) A NON-RECIPROCAL DEVICE	(54) ROOF ANTENNA
(32) 20.06.2019	COMPRISING ASYMMETRIC PHASE	(73) Fuba Automotive Electronics GmbH
(33) France	TRANSPORT OF WAVES	(72) Sczesny, Jürgen
(51) H01P 1/18	(73) Max-Planck-Gesellschaft zur Förderung	ENGEL, Matthias
H01Q 3/32	der Wissenschaften e.V.	(31) 102020117525
(11) EP3747083	(72) MANNHART, Jochen	(32) 02.07.2020
(21) EP19766562.3	BRAAK, Daniel	(33) Germany
(47) 13.09.2023	(31) 18180759	



(51) H01Q 1/22	H01Q 9/04	H01Q 1/06
H01Q 1/38	H01Q 15/00	H01Q 1/42
H01Q 5/40	H01Q 19/00	H04B 7/06
H01Q 7/00	H01Q 21/06	(11) EP3491697
H01Q 9/28	H01Q 21/24	(21) EP17835073.2
H01Q 21/26	(11) EP3771033	(47) 13.09.2023
H01Q 21/28	(21) EP20187058.1	(87) US2017043560
G06K 19/077	(47) 13.09.2023	01.02.2018
(11) EP4138211	(22) 21.07.2020	(22) 24.07.2017
(21) EP21192036.8	(54) WIDE FREQUENCY RANGE DUAL	(54) MULTI-BAND ACCESS POINT
(47) 13.09.2023	POLARIZED RADIATING ELEMENT	ANTENNA ARRAY
(22) 19.08.2021	WITH INTEGRATED RADOME	(73) Airspan IP Holdco LLC
(54) ANTENNA ARRANGEMENT	(73) Hughes Network Systems, LLC	(72) HINMAN, Brian L.
(73) Turck Holding GmbH	(72) Buckley, Michael	(31) 201662368946 P
(72) Niemi, Teemu	Ravishankar, Channasandra	(32) 29.07.2016
(51) H01Q 1/22	(31) 201916716026	(33) United States of America
H01Q 23/00	201962877042 P	(51) H01Q 7/00
H01Q 1/24	(32) 16.12.2019	H01Q 5/364
H01Q 13/02	22.07.2019	(11) EP3787113
H01Q 19/08	(33) United States of America	(21) EP19215574.5
H01Q 21/00	United States of America	(47) 13.09.2023
H01Q 21/06	(51) H01Q 1/42	(22) 12.12.2019
H01P 5/107	H01Q 1/28	(54) ANTENNA MODULE AND TERMINAL
H05K 1/02	(11) EP4009440	(73) Beijing Xiaomi Mobile Software Co., Ltd.
H05K 1/14	(21) EP22153819.2	(72) WANG, Yali
(11) EP3803474	(47) 13.09.2023	(31) 201910817109
(21) EP19810425.9	(22) 24.10.2017	(32) 30.08.2019
(47) 13.09.2023	(54) RADOME WALL FOR	(33) China
(87) US2019030163	COMMUNICATION APPLICATIONS	(51) H01Q 9/04
05.12.2019	(73) Lufthansa Technik AG	H01Q 9/42
(22) 01.05.2019	(72) Adugna, Tobias	H01Q 1/24
(54) HIGHLY INTEGRATED MINIATURE	Strotmann, Arno	H01Q 19/10
RADIOMETER CHIP	(31) 102016221143	(11) EP3618188
(73) VU Systems, LLC	(32) 27.10.2016	(21) EP17907213.7
(72) AMMAR, Danny	(33) Germany	(47) 13.09.2023
(31) 201862677035 P	(51) H01Q 3/26	(87) JP2017017034
(32) 27.05.2018	H01Q 3/28	01.11.2018
(33) United States of America	H01Q 3/38	(22) 28.04.2017
(51) H01Q 1/24	H01Q 3/36	(54) ANTENNA DEVICE AND PORTABLE
H01Q 19/06	H01Q 21/06	TERMINAL
H01Q 21/08	(11) EP4181319	(73) Kojima, Suguru
H01Q 15/02	(21) EP21216486.7	(72) Kojima, Suguru
(11) EP3813193	(47) 13.09.2023	(51) H01Q 9/28
(21) EP20203147.2	(22) 21.12.2021	H01Q 1/38
(47) 13.09.2023	(54) ANTENNA ARRAY CALIBRATION	H01Q 1/24
(22) 21.10.2020	DEVICE AND METHOD THEREOF	H01Q 1/52
(54) ELECTRONIC DEVICE INCLUDING	(73) Industrial Technology Research Institute	H01Q 21/24
ANTENNA MODULE	(72) Hwang, Ruey-Bing	H01Q 21/26
(73) Samsung Electronics Co., Ltd.	Tsai, Yueh-Lin	(11) EP3692602
(72) Jeon, Seunggil	(31) 110141779	(21) EP18864145.0
(31) 20190132511	(32) 10.11.2021	(47) 13.09.2023
(32) 23.10.2019	(33) Taiwan, Chinese Taipei	(87) US2018054321
(33) Korea (Republic)	(51) H01Q 5/00	11.04.2019
(51) H01Q 1/27	H01Q 1/02	(22) 04.10.2018
H01Q 1/36	H01Q 3/36	(54) INTEGRATED FILTER RADIATOR FOR
H01Q 11/08	H01Q 5/307	A MULTIBAND ANTENNA
(11) EP3726650	H01Q 21/28	(73) John Mezzalingua Associates LLC
(21) EP20165519.8	H01Q 21/20	(72) LE, Kevin
(47) 13.09.2023	H01Q 21/24	(31) 201762587926 P
(22) 25.03.2020	H01Q 5/42	201762567809 P
(54) MULTI-ARM SPIRAL ANTENNA FOR A	H01Q 21/00	(32) 17.11.2017
WIRELESS DEVICE	H01Q 1/00	04.10.2017
(73) Bose Corporation	H01Q 21/08	(33) United States of America
(72) Chen, Louis	H01Q 1/22	United States of America
(31) 201916389240	H01Q 5/40	(51) H01Q 13/02
(32) 19.04.2019	H01Q 1/24	H01P 5/12
(33) United States of America	H01Q 9/04	F41H 13/00
(51) H01Q 1/40	H01Q 1/12	(11) EP3996206

(21) EP21206935.5	NUIMURA, Shuji	(22) 30.10.2020
(47) 13.09.2023	(51) H01R 4/18	(54) GROUND TERMINAL AND
(22) 08.11.2021	H01R 43/28	CONNECTOR INCLUDING THE SAME
(54) HORN ANTENNA AND	H01R 13/04	(73) HOSIDEN CORPORATION
RECONSTRUCTION THEREOF	(11) EP4040603	(72) IWAMOTO, Yuta
(73) Diehl Defence GmbH & Co. KG	(21) EP22153179.1	(31) 2019216055
(72) Stark, Robert	(47) 13.09.2023	(32) 29.11.2019
Hertel, Martin	(22) 25.01.2022	(33) Japan
(31) 102020006892	(54) CONNECTION STRUCTURE OF	(51) H01R 13/436
(32) 10.11.2020	PRESS-CLAMPING TERMINAL AND	H01R 13/641
(33) Germany	CABLE	H01R 13/627
(51) H01Q 19/06	(73) Yazaki Corporation	H01R 13/639
H01Q 15/10	(72) Yamaguchi, Yasuhiro	(11) EP3316410
H01Q 3/30	Mizuno, Hideki	(21) EP17207725.7
H01Q 21/06	(31) 2021015544	(47) 13.09.2023
(11) EP3706243	(32) 03.02.2021	(22) 15.12.2017
(21) EP18891910.4	(33) Japan	(54) MSL CONNECTOR SERIES
(47) 13.09.2023	(51) H01R 4/48	(73) J.S.T. Corporation
(87) KR2018014408	H01R 13/11	(72) Jabrane, Khalid
27.06.2019	(11) EP3619772	Holub, Franklin A.
(22) 22.11.2018	(21) EP18719832.0	Abraham, Rajit
(54) BEAMFORMING ANTENNA MODULE	(47) 13.09.2023	(31) 201715407562
COMPRISING LENS	(87) EP2018060199	(32) 17.01.2017
(73) Samsung Electronics Co., Ltd.	08.11.2018	(33) United States of America
(72) KIM, Yoongeon	(22) 20.04.2018	(51) H01R 13/453
KO, Seungtae	(54) CONDUCTOR CONNECTION	H02G 3/18
KIM, Hyunjin	TERMINAL	E05B 47/06
LEE, Youngju	(73) WAGO Verwaltungsgesellschaft mbH	H01R 24/70
(31) 20170175518	(72) WITTE, Thomas	H01R 25/00
(32) 19.12.2017	(31) 102017109701	H02G 3/14
(33) Korea (Republic)	(32) 05.05.2017	(11) EP4111549
(51) H01Q 19/08	(33) Germany	(21) EP21742690.7
(11) EP4002590	(51) H01R 12/57	(47) 13.09.2023
(21) EP21182755.5	H01R 12/71	(87) DE2021000094
(47) 13.09.2023	(11) EP4068523	25.11.2021
(22) 30.06.2021	(21) EP22156459.4	(22) 18.05.2021
(54) ULTRA-WIDEBAND NON-METAL HORN	(47) 13.09.2023	(54) INSTALLATION ELEMENT
ANTENNA	(22) 13.02.2022	(73) KK Technologie GmbH & Co. KG
(73) TMY Technology Inc.	(54) CONNECTOR	(72) Kalkus, Berthold
(72) TAI, Yang	(73) Japan Aviation Electronics Industry,	Konrad, Michael
KUO, Shun-Chung	Limited	(31) 102020002945
TSAI, Wen-Tsai	(72) KOMOTO, Tetsuya	(32) 18.05.2020
WU, Jiun-Wei	KIMURA, Akira	(33) Germany
HSU, Shao-Chun	NAKAMURA, Keisuke	(51) H01R 13/58
(31) 202063115570 P	(31) 2021063098	H02G 3/06
110114721	(32) 01.04.2021	H02G 15/105
(32) 18.11.2020	(33) Japan	H01R 13/648
23.04.2021	(51) H01R 12/71	(11) EP4029089
(33) United States of America	H01R 12/73	(21) EP20793340.9
Taiwan, Chinese Taipei	(11) EP4099509	(47) 13.09.2023
(51) H01Q 19/19	(21) EP22172334.9	(87) EP2020079180
H01Q 15/00	(47) 13.09.2023	29.04.2021
H01Q 19/13	(22) 09.05.2022	(22) 16.10.2020
H01Q 19/02	(54) CONNECTOR ASSEMBLY	(54) A NEW KIND OF SIGNAL OUTLET
H01Q 5/30	(73) Japan Aviation Electronics Industry,	ASSEMBLY
H01Q 15/16	Limited	(73) Siemens Aktiengesellschaft
(11) EP4044371	(72) NAKAMURA, Keisuke	(72) FENG, Hai Qiao
(21) EP19954024.6	(31) 2021092054	ZHANG, Xiao Hui
(47) 13.09.2023	(32) 01.06.2021	HUANG, Guo Qing
(87) JP2019046266	(33) Japan	YANG, Jian Wen
03.06.2021	(51) H01R 13/187	ZHANG, Wen Qi
(22) 27.11.2019	H01R 13/6582	WU, Qi
(54) REFLECTOR ANTENNA DEVICE	H01R 24/40	TANG, Qing Song
(73) MITSUBISHI ELECTRIC	H01R 103/00	YAO, Yi Yin
CORPORATION	(11) EP3829003	(31) 201911001759
(72) NAKAJIMA, Hiromasa	(21) EP20204888.0	(32) 21.10.2019
YAMAMOTO, Shinichi	(47) 13.09.2023	(33) China
TAKIKAWA, Michio		(51) H01R 13/633

H01R 13/627	Holub, Franklin A.	H01S 5/042
H01R 4/48	Abraham, Rajit	H01S 5/028
H01R 13/504	(31) 201715407573	(11) EP3533117
(11) EP3389149	(32) 17.01.2017	(21) EP17808206.1
(21) EP18167301.3	(33) United States of America	(47) 13.09.2023
(47) 13.09.2023	(51) H01R 43/28	(87) US2017058819
(22) 13.04.2018	H02G 1/12	03.05.2018
(54) ELECTRICAL CONNECTOR	(11) EP3827486	(22) 27.10.2017
(73) Tyco Electronics Japan G.K.	(21) EP19739314.3	(54) METHOD, SYSTEM AND APPARATUS
(72) Riku, Kazuya	(47) 13.09.2023	FOR HIGHER ORDER MODE
(31) 2017080812	(87) EP2019069271	SUPPRESSION
(32) 14.04.2017	30.01.2020	(73) NLIGHT, Inc.
(33) Japan	(22) 17.07.2019	(72) KANSKAR, Manoj
(51) H01R 13/655	(54) CABLE PROCESSING MACHINE	CHEN, Zhigang
H01R 13/453	SYSTEM AND METHOD FOR	(31) 201662414377 P
H01R 13/66	REMOVING ONE OR MORE	(32) 28.10.2016
H01R 24/78	CABLES FROM A TRAY OF A CABLE	(33) United States of America
(11) EP3836315	PROCESSING MACHINE SYSTEM	(51) H01S 5/40
(21) EP20211579.6	(73) komax Holding AG	(11) EP3440749
(47) 13.09.2023	(72) CONTE, Alois	(21) EP17718666.5
(22) 03.12.2020	FURRER, Nils	(47) 13.09.2023
(54) POWER SOCKET	FEUBLI, Dominik	(87) US2017025990
(73) Legrand France	(31) 18185288	12.10.2017
Legrand SNC	(32) 24.07.2018	(22) 04.04.2017
(72) BARRUCHE, Alain	(33) European Patent Office (EPO)	(54) HIGH BRIGHTNESS COHERENT
(31) 1914025	(51) H01S 3/00	MULTI-JUNCTION DIODE LASERS
(32) 10.12.2019	H01S 3/23	(73) NLIGHT, Inc.
(33) France	H01S 3/10	(72) CHEN, Zhigang
(51) H01R 13/66	G02B 5/00	KANSKAR, Manoj
G01R 15/04	G02B 7/18	(31) 201662318136 P
(11) EP3840135	H01S 3/04	(32) 04.04.2016
(21) EP19218849.8	(11) EP3981048	(33) United States of America
(47) 13.09.2023	(21) EP20714400.7	(51) H02B 5/02
(22) 20.12.2019	(47) 13.09.2023	H02B 5/06
(54) RETROFITTABLE VOLTAGE SENSING	(87) US2020019963	(11) EP4046250
DEVICE FOR POWER NETWORKS	10.12.2020	(21) EP20804333.1
(73) 3M Innovative Properties Company	(22) 26.02.2020	(47) 13.09.2023
(72) Gravermann, Mark	(54) INTEGRATED BEAM SCRAPER AND	(87) IB2020059650
Schubert, Bernd	POWER DUMP	22.04.2021
Stollwerck, Gunther	(73) Raytheon Company	(22) 14.10.2020
Stalder, Michael	(72) ANDERSON, Timothy C.	(54) TOWER FOR A HIGH-VOLTAGE
(51) H01R 13/74	GIRARD, Adam R.	OVERHEAD ELECTRIC
H01R 24/64	(31) 201916433077	TRANSMISSION LINE, EQUIPPED
(11) EP3713020	(32) 06.06.2019	WITH SWITCHGEAR UNIT AND
(21) EP20174844.9	(33) United States of America	RELATED PROTECTION, COMMAND
(47) 13.09.2023	(51) H01S 3/067	AND CONTROL SYSTEM
(22) 26.03.2016	H01S 3/094	(73) Terna S.p.A.
(54) LATCH FOR TELECOMMUNICATIONS	H01S 3/16	(72) DI BARTOLOMEO, Evaristo
CONNECTOR	G02B 6/036	POLINELLI, Dario
(73) CommScope Connectivity Spain, S.L.	G02B 6/02	SPEZIE, Roberto
(72) DE DIOS MARTÍN, Longinos	H01S 3/0941	(31) 201900018788
CARRERAS GARCÍA, Antonio	(11) EP2822112	201900018803
(31) 201530419	(21) EP13184343.5	(32) 15.10.2019
(32) 27.03.2015	(47) 13.09.2023	15.10.2019
(33) Spain	(22) 13.09.2013	(33) Italy
(51) H01R 43/26	(54) High-power double-cladding-pumped	Italy
H01R 13/436	(DC) erbium-doped fiber amplifier (EDFA)	(51) H02B 13/025
H01R 13/641	(73) OFS Fitel, LLC (a Delaware Limited	H02B 1/28
H01R 13/627	Liability Company)	(11) EP3813209
H01R 13/639	(72) Zhu, Benyuan	(21) EP19204679.5
(11) EP3316427	(31) 201314010622	(47) 13.09.2023
(21) EP17207747.1	201361802086 P	(22) 22.10.2019
(47) 13.09.2023	(32) 27.08.2013	(54) LOW AND MEDIUM VOLTAGE
(22) 15.12.2017	15.03.2013	ELECTRICAL ENCLOSURE WITH
(54) METHOD OF OPERATING MSL	(33) United States of America	SHAPE MEMORY ALLOY-BASED
CONNECTOR SERIES	United States of America	PRESSURE RELIEF
(73) J.S.T. Corporation	(51) H01S 5/20	(73) ABB S.p.A.
(72) Jabrane, Khalid	H01S 5/10	(72) Benedetti, Pierceleste

Bergamini, Alessio Nava, Giuseppe Gamba, Federico	(73) Panasonic Intellectual Property Management Co., Ltd. (72) IWAMI, Eiji IKUSHIMA, Tsuyoshi FUKUO, Naoki NISHIGAKI, Tomokazu	F03D 7/00 (11) EP2738904 (21) EP13192886.3 (47) 13.09.2023 (22) 14.11.2013 (54) Method and systems for operating a wind turbine when recovering from a grid contingency event
(51) H02G 3/08 (11) EP3494621 (21) EP17754603.3 (47) 13.09.2023 (87) DE2017100626 08.02.2018 (22) 26.07.2017 (54) DEVICE AND METHOD FOR LEADING CABLES THROUGH A WALL OPENING	(31) 2015087808 (32) 22.04.2015 (33) Japan (51) H02H 9/04 (11) EP3785341 (21) EP19727256.0 (47) 13.09.2023 (87) US2019032335 05.12.2019 (22) 15.05.2019 (54) ELECTROSTATIC DISCHARGE CIRCUIT FOR CROSS DOMAIN ESD PROTECTION	(73) General Electric Company (72) Larsen, Einar Vaughn Koerber, Arne (31) 201213689872 (32) 30.11.2012 (33) United States of America
(73) Harting Electric GmbH & Co. KG (72) FERDERER, Albert (31) 102016114577 (32) 05.08.2016 (33) Germany	(31) 201815994390 (32) 31.05.2018 (33) United States of America (51) H02J 1/10 (11) EP3772791 (21) EP19216125.5 (47) 13.09.2023 (22) 13.12.2019 (54) SYSTEM AND METHOD FOR ADDING A HIGH VOLTAGE DC SOURCE TO A POWER BUS	(51) H02J 7/00 (11) EP3171483 (21) EP16199552.7 (47) 13.09.2023 (22) 18.11.2016 (54) METHOD AND APPARATUS FOR BATTERY EQUALIZATION, AND BATTERY PACK USING THE SAME
(51) H02G 5/02 H01R 25/16 H02B 1/21 (11) EP3164915 (21) EP15830352.9 (47) 13.09.2023 (87) AU2015000384 11.02.2016 (22) 05.07.2015 (54) AN INTERCONNECTION AND INSULATION MODULE FOR BUSBARS	(73) Microsoft Technology Licensing, LLC (72) MANDAL, Gurupada (31) 201815994390 (32) 31.05.2018 (33) United States of America (51) H02J 1/10 (11) EP3772791 (21) EP19216125.5 (47) 13.09.2023 (22) 13.12.2019 (54) SYSTEM AND METHOD FOR ADDING A HIGH VOLTAGE DC SOURCE TO A POWER BUS	(73) Samsung Electronics Co., Ltd. (72) KIM, Young Jae (31) 20150161938 (32) 18.11.2015 (33) Korea (Republic)
(73) Logix Engineering Pty Ltd. (72) HAMILTON, Anthony James MACBEAN, Russell (31) 2014902589 (32) 05.07.2014 (33) Australia	(73) Hamilton Sundstrand Corporation (72) HOPKINS, Christopher E. HARKE, Michael C. (31) 201916532683 (32) 06.08.2019 (33) United States of America	(51) H02J 7/00 B60L 3/00 B60L 50/64 B60L 58/13 H01M 10/42 H01M 10/44 (11) EP3016235 (21) EP14818778.4 (47) 13.09.2023 (87) JP2014064046 31.12.2014 (22) 28.05.2014 (54) SECONDARY BATTERY SYSTEM
(51) H02H 1/00 H02H 1/04 G05B 15/02 G05B 19/418 (11) EP3701607 (21) EP18793400.5 (47) 13.09.2023 (87) EP2018079101 02.05.2019 (22) 24.10.2018 (54) METHOD AND SYSTEM FOR DETERMINING A HAZARD POTENTIAL OF AN ELECTRICAL INSTALLATION	(72) HOPKINS, Christopher E. HARKE, Michael C. (31) 201916532683 (32) 06.08.2019 (33) United States of America (51) H02J 1/10 H02J 3/38 (11) EP3796504 (21) EP20198711.2 (47) 13.09.2023 (22) 16.01.2009 (54) ELECTRICAL SYSTEM AND METHOD OF OPERATING SUCH A SYSTEM	(11) EP3016235 (21) EP14818778.4 (47) 13.09.2023 (87) JP2014064046 31.12.2014 (22) 28.05.2014 (54) SECONDARY BATTERY SYSTEM (73) Vehicle Energy Japan Inc. (72) SASAKI Hironori (31) 2013135872 (32) 28.06.2013 (33) Japan
(73) Eaton Intelligent Power Limited (72) GEGENBAUER, Bernhard REUBERGER, Georg STEPAN, Frantisek (31) 102017125310 (32) 27.10.2017 (33) Germany	(73) Femtogrid Energy Solutions B.V. (72) Schaacke, Robert (31) 2001920 (32) 26.08.2008 (33) Netherlands (51) H02J 3/16 H02J 3/50 F03D 9/25 (11) EP3316433 (21) EP17201700.6 (47) 13.09.2023 (22) 02.10.2009 (54) VOLTAGE CONTROL AT WINDFARMS	(51) H02J 7/00 B60L 53/16 B60L 53/18 B60L 53/302 B60L 53/31 (11) EP3257701 (21) EP17020204.8 (47) 13.09.2023 (22) 10.05.2017 (54) LOADING DEVICE FOR AN ENERGY STORAGE DEVICE OF AN ELECTRIC VEHICLE
(51) H02H 3/33 G01R 15/18 G01R 19/165 G01R 31/52 G01R 19/00 H02H 3/00 (11) EP3288133 (21) EP16782759.1 (47) 13.09.2023 (87) JP2016001734 27.10.2016 (22) 25.03.2016 (54) SHUTOFF DEVICE	(73) General Electric Company (72) LARSEN, Einar Vaughn WALLING, Reigh Allen CLARK, Kara (31) 248862 (32) 09.10.2008 (33) United States of America (51) H02J 3/38	(73) Dr. Ing. h.c. F. Porsche AG (72) Koehler, David Reber, Volker (31) 102016110937 (32) 15.06.2016 (33) Germany (51) H02J 7/14 H02J 1/08 H02P 9/30 H02P 9/48 (11) EP3840173

(21) EP20213830.1	(31) 20120044148	(33) European Patent Office (EPO)
(47) 13.09.2023	(32) 26.04.2012	(51) H02K 1/14
(22) 14.12.2020	(33) Korea (Republic)	H02K 15/02
(54) VARIABLE VOLTAGE CHARGING SYSTEM AND METHOD FOR A VEHICLE	(51) H02J 50/12	(11) EP3642937
(73) BRUNSWICK CORPORATION	H02J 50/80	(21) EP18727187.9
(72) Gonring, Steven J.	(11) EP3534493	(47) 13.09.2023
(31) 201916723243	(21) EP18159218.9	(87) EP2018062296
(32) 20.12.2019	(47) 13.09.2023	24.01.2019
(33) United States of America	(22) 28.02.2018	(22) 14.05.2018
(51) H02J 9/06	(54) WIRELESS POWER TRANSFER CONTROL	(54) SEGMENTED STATOR FOR A DIRECT DRIVE ELECTRICAL GENERATOR
G01N 31/00	(73) Delta Electronics (Thailand) Public Co., Ltd.	(73) Siemens Gamesa Renewable Energy A/S
G01N 35/00	(72) RICHTER, Ulrich	(72) AZAR, Ziad
G02B 21/26	(51) H02J 50/70	THOMAS, Arwyn
G06F 1/3206	H02J 50/40	(31) 102017212250
G02B 21/34	(11) EP3729603	(32) 18.07.2017
(11) EP3625871	(21) EP18891846.0	(33) Germany
(21) EP19760050.5	(47) 13.09.2023	(51) H02K 1/20
(47) 13.09.2023	(87) US2018067456	H02K 5/128
(87) US2019020411	27.06.2019	H02K 9/02
06.09.2019	(22) 24.12.2018	B64C 11/00
(22) 01.03.2019	(54) WIRELESS POWER TRANSFER PAD WITH MULTIPLE WINDINGS	B64C 27/20
(54) POWER OFF DELAY SYSTEM AND METHOD	(73) Wireless Advanced Vehicle Electrification, Inc.	B64D 35/06
(73) Leica Biosystems Imaging, Inc.	(72) LETHELLIER, Patrice	(11) EP3954022
(72) NEWBERG, Nicholas	HARPER, Marcellus	(21) EP20715065.7
SIEHL, Benjamin	(31) 201762609947 P	(47) 13.09.2023
WITTMANN, Markus	(32) 22.12.2017	(87) EP2020059129
SHARPE, Markus	(33) United States of America	15.10.2020
(31) 201862637299 P	(51) H02J 50/80	(22) 31.03.2020
(32) 01.03.2018	G01R 21/00	(54) AIRCRAFT PROPELLER
(33) United States of America	H04L 7/00	(73) SAFRAN
(51) H02J 9/06	H04Q 9/00	(72) SABER, Christelle
H02J 7/00	H04Q 9/04	MERLE, Sébastien
G06F 1/26	(11) EP3659236	AYAT, Sabrina
H03K 5/08	(21) EP18837447.4	(31) 1903954
H03K 17/042	(47) 13.09.2023	(32) 12.04.2019
(11) EP3449548	(87) US2018030205	(33) France
(21) EP17790432.3	31.01.2019	(51) H02K 1/30
(47) 13.09.2023	(22) 30.04.2018	H02K 1/2791
(87) US2017029849	(54) TRANSMISSION OF TIME STAMPS OF SAMPLES OF SELF-POWERED POWER SENSOR	H02K 15/03
02.11.2017	(73) Panoramic Power Ltd.	H02K 15/12
(22) 27.04.2017	(72) SHAMIR, Adi	(11) EP3657640
(54) FAST TURN-ON POWER SWITCH	ALJADJEFF, Daniel	(21) EP19210105.3
(73) Texas Instruments Incorporated	(31) 201762537334 P	(47) 13.09.2023
(72) FORGHANI-ZADEH, Hassan, Pooya	(32) 26.07.2017	(22) 19.11.2019
MANOHAR, Sujan, Kundapur	(33) United States of America	(54) MOTOR
MOCTEZUMA, Ariel, Dario	(51) H02K 1/02	(73) LG Electronics Inc.
(31) 201615234722	H02K 1/30	(72) KIM, Jaeho
201662328711 P	H02K 15/02	LA, Minsoo
(32) 11.08.2016	(11) EP3788700	NAM, Hyuk
28.04.2016	(21) EP19746004.1	YU, Kyungmo
(33) United States of America	(47) 13.09.2023	CHO, Sangyoung
United States of America	(87) EP2019068478	HA, Kyungho
(51) H02J 50/10	16.01.2020	KIM, Pangeun
H02J 7/00	(22) 10.07.2019	(31) 20180147669
H02M 7/217	(54) MATERIAL LAYER FOR HIGH ROTATIONAL SPEEDS AND METHOD FOR PRODUCING	20180147667
(11) EP2843801	(73) Siemens Aktiengesellschaft	20180147666
(21) EP13781535.3	(72) VOLLMER, Rolf	20180147665
(47) 13.09.2023	(31) 18183453	(32) 26.11.2018
(87) KR2013003654	(32) 13.07.2018	26.11.2018
31.10.2013		26.11.2018
(22) 26.04.2013		26.11.2018
(54) WIRELESS POWER RECEIVING APPARATUS		(33) Korea (Republic)
(73) LG Innotek Co., Ltd.		Korea (Republic)
(72) BAE, Su Ho		Korea (Republic)
		Korea (Republic)
		(51) H02K 3/50

H02K 3/51	(72) JUNG, Younggyu	(11) EP3834276
H02K 9/00	BAEK, Seungjo	(21) EP19783977.2
H02K 3/24	CHO, Seongho	(47) 13.09.2023
H02K 9/10	(31) 20170006985	(87) EP2019075111
(11) EP3830933	(32) 16.01.2017	07.05.2020
(21) EP19786465.5	(33) Korea (Republic)	(22) 19.09.2019
(47) 13.09.2023	(51) H02K 17/16	(54) FREQUENCY INVERTER WITH
(87) EP2019075809	(11) EP3641112	SHORTENED PRECHARGE TIME
02.04.2020	(21) EP18817419.7	(73) Siemens Aktiengesellschaft
(22) 25.09.2019	(47) 13.09.2023	(72) HENSLEER, Alexander
(54) TURBOGENERATOR WITH BLOCKING	(87) JP2018017933	OSCHMANN, Philipp
ELEMENT FOR THE ROTOR WINDING	20.12.2018	(31) 18203375
HEADS AND ROTOR CAP WITH	(22) 09.05.2018	(32) 30.10.2018
RADIAL VENTILATION BORES.	(54) INDUCTION ELECTRIC MOTOR	(33) European Patent Office (EPO)
(73) Siemens Energy Global GmbH & Co. KG	ROTOR	(51) H02M 3/10
(72) KOWALSKI, Matthias	(73) Kabushiki Kaisha Toshiba	G01S 7/02
(31) 102018216586	Toshiba Infrastructure Systems &	G01S 13/88
(32) 27.09.2018	Solutions Corporation	H03K 17/945
(33) Germany	(72) MISU Daisuke	(11) EP3799310
(51) H02K 7/14	MATSUSHITA Makoto	(21) EP19199538.0
H02K 9/19	TANIGUCHI Shun	(47) 13.09.2023
H02K 11/33	HASEBE Toshio	(22) 25.09.2019
F04B 1/04	(31) 2017118965	(54) SENSOR SYSTEMS AND ELECTRONIC
F04B 17/03	(32) 16.06.2017	DEVICES
F04B 49/06	(33) Japan	(73) Infineon Technologies AG
F04B 51/00	(51) H02K 41/02	(72) BRANDL, Matthias
F04B 53/08	H02K 41/03	(51) H02M 3/156
F04B 53/16	(11) EP3667878	H03F 3/217
F04B 53/18	(21) EP18211859.6	H02M 1/08
F04C 2/10	(47) 13.09.2023	H02M 1/38
F04C 11/00	(22) 12.12.2018	H02M 3/158
F04C 14/28	(54) LINEAR MOTOR AND SECONDARY	H02M 1/00
F04C 15/00	PART FOR A LINEAR MOTOR	H03K 17/13
H02K 1/32	(73) ETEL S.A.	H03K 17/284
(11) EP3646440	(72) Szczukiewicz, Sylwia	(11) EP3443657
(21) EP18752845.0	Moreno, Loic	(21) EP17783148.4
(47) 13.09.2023	(51) H02M 1/10	(47) 13.09.2023
(87) IB2018054596	H02M 3/335	(87) US2017027452
03.01.2019	H02M 7/155	19.10.2017
(22) 21.06.2018	H02M 7/21	(22) 13.04.2017
(54) ELECTRIC PUMP SYSTEM AND	G05F 1/565	(54) DC-DC CONVERTER AND CONTROL
METHOD	H02M 1/36	CIRCUIT
(73) Tesla, Inc.	(11) EP3195456	(73) Texas Instruments Incorporated
(72) GRAVES, Scott Michael	(21) EP15842059.6	(72) BANDYOPADHYAY, Saurav
BELLEMARE, Eric	(47) 13.09.2023	NEIDORFF, Robert A.
ZHU, Yufei	(87) US2015050526	(31) 201615366264
DELLAL, Benjamin	24.03.2016	201662321988 P
SILVA RODRIGUEZ, Diego Alberto	(22) 16.09.2015	(32) 01.12.2016
(31) 201815944841	(54) CONSTANT ON-TIME (COT) CONTROL	13.04.2016
201762527699 P	IN ISOLATED CONVERTER	(33) United States of America
(32) 04.04.2018	(73) Alpha and Omega Semiconductor	United States of America
30.06.2017	(Cayman) Ltd.	(51) H02M 3/158
(33) United States of America	(72) LIN, Tien-Chi	(11) EP3652847
United States of America	LIU, Chih-Yuan	(21) EP18729732.0
(51) H02K 9/06	HSU, Yung-Chuan	(47) 13.09.2023
A47L 5/22	HUANG, Pei-Lun	(87) FR2018051185
F16C 37/00	(31) 201410483703	17.01.2019
H02K 5/173	201414562727	(22) 17.05.2018
A47L 9/28	(32) 19.09.2014	(54) HALF-BRIDGE ELECTRONIC DEVICE
H02K 5/20	07.12.2014	COMPRISING TWO SYSTEMS FOR
(11) EP3570417	(33) China	MINIMISING DEAD-TIME BETWEEN
(21) EP18739214.7	United States of America	THE SWITCHING OPERATIONS OF A
(47) 13.09.2023	(51) H02M 1/36	HIGH LEVEL SWITCH AND OF A LOW
(87) KR2018000758	H02M 5/458	LEVEL SWITCH
19.07.2018	H02M 7/12	(73) STMicroelectronics France
(22) 16.01.2018	H02M 7/757	(72) GUILLOT, Laurent
(54) FAN MOTOR	H02M 7/758	SUTTO, Thierry
(73) LG Electronics Inc.	H02M 1/00	BAILLY, Alain

(31) 1756490	BÖS, Benjamin	(54) ENVELOPE TRACKING MODULATOR
(32) 10.07.2017	(51) H02P 9/10	(73) Mediatek Inc.
(33) France	(11) EP3703244	(72) LIN, Shih-Mei
(51) H02M 7/5387	(21) EP19159345.8	KUAN, Chien-Wei
H02M 7/5395	(47) 13.09.2023	MENG, Che-Hao
(11) EP3985860	(22) 26.02.2019	HO, Chen-Yen
(21) EP21201408.8	(54) METHOD OF OPERATING AN	(31) 201916728193
(47) 13.09.2023	ELECTRICAL GENERATOR	201962840462 P
(22) 07.10.2021	(73) Mahle International GmbH	201962796609 P
(54) APPARATUS AND METHODS FOR	(72) Kanalec, Stas	(32) 27.12.2019
VARYING OUTPUT PWM CONTROL OF	(51) H02P 29/60	30.04.2019
AN INVERTER	H02P 29/66	25.01.2019
(73) NXP USA, Inc.	(11) EP3794724	(33) United States of America
(72) CAO, Wei	(21) EP19722901.6	United States of America
MAO, Huan	(47) 13.09.2023	United States of America
GAO, Xiang	(87) EP2019061931	
WANG, Dechang	21.11.2019	(51) H03F 1/56
(31) 202011097250	(22) 09.05.2019	H03H 1/00
(32) 14.10.2020	(54) METHOD FOR OPERATING A POWER	B41J 2/045
(33) China	CONVERTER, POWER CONVERTER	(11) EP3843265
(51) H02N 2/18	FOR A PERMANENTLY EXCITED	(21) EP20217206.0
H02K 35/00	ELECTRIC MACHINE, VEHICLE AND	(47) 13.09.2023
(11) EP3942686	COMPUTER PROGRAM PRODUCT	(22) 24.12.2020
(21) EP20719490.3	(73) Valeo eAutomotive Germany GmbH	(54) LIQUID EJECTING APPARATUS AND
(47) 13.09.2023	(72) SEILMEIER, Markus	DRIVE CIRCUIT
(87) IB2020052514	(31) 102018112107	(73) Seiko Epson Corporation
24.09.2020	(32) 18.05.2018	(72) NOZAWA, Dai
(22) 19.03.2020	(33) Germany	(31) 2019235895
(54) ELECTRONIC DEVICE AND METHOD	(51) H02P 29/64	(32) 26.12.2019
FOR THE MAXIMIZATION OF THE	H02P 25/034	(33) Japan
AVERAGE POWER EXTRACTED FROM	H02P 29/032	(51) H03F 3/45
A VIBRATION HARVESTER	(11) EP4020794	(11) EP4027524
(73) Università degli Studi della Campania	(21) EP21216637.5	(21) EP22150795.7
"Luigi Vanvitelli"	(47) 13.09.2023	(47) 13.09.2023
(72) LO SCHIAVO, Alessandro	(22) 21.12.2021	(22) 10.01.2022
VITELLI, Massimo	(54) MOTOR CONTROL DEVICE	(54) LOCAL OSCILLATOR BUFFER
COSTANZO, Luigi	(73) Alps Alpine Co., Ltd.	(73) Nordic Semiconductor ASA
(31) 201900004067	(72) SASAKI, Yuzo	(72) KARVONEN, Sami
(32) 20.03.2019	(31) 2020216820	SIVONEN, Pete
(33) Italy	(32) 25.12.2020	(31) 202100264
(51) H02P 6/182	(33) Japan	(32) 08.01.2021
H02P 27/08	(51) H02S 20/10	(33) United Kingdom
(11) EP4037178	H02S 20/24	(51) H03H 7/01
(21) EP22151699.0	H02S 40/36	H03F 1/56
(47) 13.09.2023	(11) EP4049366	H03F 3/195
(22) 17.01.2022	(21) EP20800807.8	H04B 1/04
(54) METHOD FOR DRIVING AN AT LEAST	(47) 13.09.2023	H03H 7/38
TWO-PHASE BRUSHLESS MOTOR	(87) EP2020079959	H03F 1/02
(73) Miele & Cie. KG	29.04.2021	(11) EP3692633
(72) Sammoud, Hafedh	(22) 23.10.2020	(21) EP18821797.0
(31) 202105066	(54) PHOTOVOLTAIC MODULE AND	(47) 13.09.2023
(32) 28.01.2021	PHOTOVOLTAIC SYSTEM, AND	(87) US2018062612
(33) Belgium	METHOD FOR OPERATING SAME	31.05.2019
(51) H02P 8/24	(73) SK SOLAR ENERGY GMBH	(22) 27.11.2018
F16K 31/04	(72) KUTSCHER, Stefan	(54) RF POWER AMPLIFIER WITH
F16K 31/06	SPECHT, Nikolas	COMBINED BASEBAND,
H02J 7/34	(31) 102019128746	FUNDAMENTAL AND HARMONIC
(11) EP3427378	(32) 24.10.2019	TUNING NETWORK
(21) EP16709780.7	(33) Germany	(73) Wolfspeed, Inc.
(47) 13.09.2023	(51) H03F 1/02	(72) ARIGONG, Bayaner
(87) EP2016055364	H03F 3/19	JANG, Haedong
14.09.2017	H03F 3/24	WILSON, Richard
(22) 11.03.2016	H03F 3/217	TRANG, Frank
(54) VALVE ACTUATOR AND METHOD	(11) EP3687065	MU, Qianli
THEREWITH	(21) EP20152325.5	HASHIMOTO, Ej
(73) Karl Dungs GmbH & Co.KG	(47) 13.09.2023	(31) 201715823155
(72) OBERMÖLLER, Nils	(22) 16.01.2020	(32) 27.11.2017
MARX, Dominic		(33) United States of America
		(51) H03H 7/40

H01J 37/32	LOGICAL AND/OR VALUES BASED	(11) EP3729661
H03H 11/30	ON SINGLE FLUX QUANTUM PULSE	(21) EP18811780.8
(11) EP3935734	INPUTS	(47) 13.09.2023
(21) EP20766553.0	(73) Northrop Grumman Systems Corporation	(87) EP2018082780
(47) 13.09.2023	(72) BRAUN, Alexander Louis	(27.06.2019
(87) US2020020750	(31) 201715811000	(22) 28.11.2018
10.09.2020	(32) 13.11.2017	(54) A SECURE SOFTWARE-DEFINED
(22) 03.03.2020	(33) United States of America	RADIO CHIP
(54) DETECTION OF DAMAGE IN	(51) H03M 3/04	(73) Nagravision Sàrl
MATCHING NETWORKS	(11) EP3553952	(72) CONUS, Joël M.
(73) AES Global Holdings, Pte. Ltd.	(21) EP18166658.7	(31) 17210095
(72) VAN GREUNEN, Corneluis Erasmus	(47) 13.09.2023	(32) 22.12.2017
WATANABE, Masahiro	(22) 10.04.2018	(33) European Patent Office (EPO)
(31) 201916291122	(54) ANALOG-TO-DIGITAL CONVERTER	(51) H04B 1/10
(32) 04.03.2019	(73) Melexis Technologies SA	(11) EP3607661
(33) United States of America	(72) RAMAN, Johan	(21) EP18716443.9
(51) H03K 3/38	ROMBOUTS, Pieter	(47) 13.09.2023
G06N 10/40	(51) H03M 7/02	(87) US2018023239
(11) EP3230817	H03M 7/00	11.10.2018
(21) EP15798638.1	H04L 25/49	(22) 20.03.2018
(47) 13.09.2023	H04B 10/66	(54) METHOD AND APPARATUS FOR
(87) US2015060303	H04B 10/54	INTERFERENCE MONITORING OF
16.06.2016	H03M 7/30	RADIO DATA SIGNALS
(22) 12.11.2015	H03K 7/02	(73) Topcon Positioning Systems, Inc.
(54) JOSEPHSON CURRENT SOURCE	(11) EP3935757	(72) BRABEC, Vemon Joseph
SYSTEMS AND METHOD	(21) EP20720230.0	(31) 201715477392
(73) Northrop Grumman Systems Corporation	(47) 13.09.2023	(32) 03.04.2017
(72) NAAMAN, Ofer	(87) US2020024535	(33) United States of America
HERR, Quentin P.	22.10.2020	(51) H04B 1/3822
(31) 201414564962	(22) 25.03.2020	(11) EP3651373
(32) 09.12.2014	(54) POWER-BASED DECODING OF	(21) EP18827689.3
(33) United States of America	DATA RECEIVED OVER AN OPTICAL	(47) 13.09.2023
(51) H03K 5/13	COMMUNICATION PATH	(87) JP2018004352
(11) EP3758224	(73) Microsoft Technology Licensing, LLC	10.01.2019
(21) EP20179714.9	(72) HASSAN, Amer Aref	(22) 08.02.2018
(47) 13.09.2023	CHEN, Wei-Chen	(54) COMMUNICATION DEVICE AND
(22) 12.06.2020	(31) 201916388340	COMMUNICATION CONTROL METHOD
(54) PVT COMPENSATED DELAY CELL	(32) 18.04.2019	(73) Panasonic Intellectual Property
FOR A MONOSTABLE	(33) United States of America	Management Co., Ltd.
(73) STMICROELECTRONICS S.r.l.	(51) H03M 13/13	(72) OKAMURA, Shutai
(72) ZAMPROGNO, Marco	H03M 13/00	YAMAGUCHI, Takahiro
TAJFAR, Alireza	(11) EP3586444	SOTOYAMA, Takayuki
(31) 201916454872	(21) EP18757463.7	HIRAMATSU, Katsuhiko
(32) 27.06.2019	(47) 13.09.2023	(31) 201762542821 P
(33) United States of America	(87) CN2018076970	201762535969 P
(51) H03K 19/17756	30.08.2018	201762529480 P
(11) EP3966936	(22) 22.02.2018	(32) 09.08.2017
(21) EP19723353.9	(54) MUTUAL-INFORMATION BASED	24.07.2017
(47) 13.09.2023	RECURSIVE POLAR CODE	07.07.2017
(87) EP2019061656	CONSTRUCTION	(33) United States of America
12.11.2020	(73) Qualcomm Incorporated	United States of America
(22) 07.05.2019	(72) YANG, Yang	United States of America
(54) SPATIAL SEGREGATION OF FLEXIBLE	JIANG, Jing	(51) H04B 1/56
LOGIC HARDWARE	SARKIS, Gabi	H04B 1/44
(73) Silicon Mobility SAS	WEI, Chao	H04B 17/309
(72) VEZIER, Loïc, Jean, Dominique	LI, Jian	H04B 7/26
LEBRUN, Anselme, Joseph, Francis	SANKAR, Hari	H04B 7/0413
GARACCIO, Pierre, Dominique, Xavier	XU, Changlong	(11) EP3688877
(51) H03K 19/195	SORIAGA, Joseph Binamira	(21) EP18860780.8
H03K 19/20	(31) PCT/CN2017/074381	(47) 13.09.2023
(11) EP3711165	(32) 22.02.2017	(87) US2018051913
(21) EP18799635.0	(33) World Intellectual Property Office (WIPO)	04.04.2019
(47) 13.09.2023	(51) H04B 1/00	(22) 20.09.2018
(87) US2018056316	G06F 21/76	(54) SINGLE-CHANNEL, FULL-TIME
16.05.2019	G06F 21/57	FULL-DUPLEX WIRELESS SIGNAL
(22) 17.10.2018	H04W 12/10	TRANSMISSION SYSTEM
(54) SUPERCONDUCTING AND/OR GATE	H04L 9/40	(73) Photonic Systems, Inc.
AND METHOD FOR DETERMINING	H04W 12/30	(72) COX, Charles H.



WARNER, Thomas Hamilton	H04W 40/02	16369509 P
(31) 201762563613 P	H04W 40/22	16924009 P
(32) 26.09.2017	H04W 40/28	15208609 P
(33) United States of America	(11) EP3934115	10072108 P
(51) H04B 1/713	(21) EP21181344.9	10874308 P
H04L 1/00	(47) 13.09.2023	14738609 P
H04W 4/70	(22) 24.06.2021	(32) 29.04.2009
H04W 4/06	(54) METHOD AND DEVICE FOR RELAYING	06.01.2009
H04B 1/715	A MESSAGE RECEIVED FROM A	07.01.2009
H04J 11/00	FIRST DEVICE BY A SECOND NODE	06.01.2009
H04B 7/185	DEVICE TO A THIRD NODE DEVICE	06.01.2009
H04W 74/08	(73) Sagemcom Energy & Telecom SAS	15.05.2009
H04L 1/04	(72) BAROIS, Jérôme	02.03.2009
(11) EP3488535	ROTHER, Ziv	07.01.2009
(21) EP17772451.5	(31) 2006936	24.04.2009
(47) 13.09.2023	(32) 01.07.2020	06.01.2009
(87) EP2017074894	(33) France	06.01.2009
05.04.2018	(51) H04B 5/00	13.02.2009
(22) 29.09.2017	B60L 53/51	09.12.2008
(54) METHOD OF TRANSMISSION, BY	B60L 53/10	06.01.2009
A TERMINAL OF A SLOT-BASED-	B60L 53/66	01.06.2009
ACCESS COMMUNICATION SYSTEM,	B60L 53/65	26.03.2009
OF A MESSAGE WITH INTRA-	B60L 53/63	14.04.2009
MESSAGE FREQUENCY HOPS	B60L 55/00	12.02.2009
(73) Airbus Defence and Space SAS	B60L 53/64	27.09.2008
(72) GADAT, Benjamin	B60L 53/12	27.10.2008
DESLANDES, Vincent	B60L 50/20	26.01.2009
(31) 1659363	H02J 50/12	(33) United States of America
(32) 29.09.2016	H03H 7/40	United States of America
(33) France	H01F 38/14	United States of America
(51) H04B 1/7163	B60L 53/122	United States of America
H04J 13/10	B60L 53/126	United States of America
(11) EP3411957	H02J 7/35	United States of America
(21) EP17703425.3	H02J 50/40	United States of America
(47) 13.09.2023	(11) EP3544196	United States of America
(87) EP2017052564	(21) EP19153756.2	United States of America
10.08.2017	(47) 13.09.2023	United States of America
(22) 06.02.2017	(22) 25.09.2009	United States of America
(54) SECURE CHANNEL SOUNDING	(54) WIRELESS ENERGY TRANSFER	United States of America
(73) Decawave Ltd.	SYSTEMS	United States of America
(72) MCELROY, Ciaran	(73) WiTricity Corporation	United States of America
NIEWCZAS, Jaroslaw	(72) Kesler, Morris P.	United States of America
MCLAUGHLIN, Michael	Karalis, Aristeidis	United States of America
DOTLIC, Igor	Kurs, Andre B.	United States of America
O'DUINN, Marcas	Campanella, Andrew J.	United States of America
NEIRYNCK, Dries	Fiorello, Ron	United States of America
(31) 201662379168 P	Li, Qiang	United States of America
201662375788 P	Kulikowski, Konrad J.	United States of America
201662370440 P	Giler, Eric R.	United States of America
201662300781 P	Pergal, Frank J.	(51) H04B 5/00
201662291605 P	Schatz, David A.	H01Q 1/22
201662291407 P	Hall, Katherine L.	H01Q 13/10
(32) 24.08.2016	Soljacic, Marin	(11) EP3734849
16.08.2016	(31) 17374709 P	(21) EP19171840.2
03.08.2016	14288709 P	(47) 13.09.2023
27.02.2016	14305809 P	(22) 30.04.2019
05.02.2016	14281809 P	(54) NFC ANTENNA
04.02.2016	14288009 P	(73) STMicroelectronics Austria GmbH
(33) United States of America	17850809 P	(72) ANTONETTI, Francesco
United States of America	15676409 P	(51) H04B 7/024
United States of America	14297709 P	H04B 7/04
United States of America	17263309 P	H04B 7/06
United States of America	14288509 P	(11) EP3326297
United States of America	14288909 P	(21) EP15747583.1
(51) H04B 3/58	15239009 P	(47) 13.09.2023
H04L 12/46	12115908 P	(87) SE2015050830
H04B 3/54	14279609 P	26.01.2017
H04L 12/00	18276809 P	(22) 22.07.2015

(54) REFERENCE SIGNALING FOR BEAMFORMING NETWORKS	(73) Koninklijke Philips N.V.	01.11.2018
(73) Telefonaktiebolaget LM Ericsson (publ)	(72) VENKATESH, Ramireddy	(22) 27.04.2018
(72) WERNERSSON, Niklas	GROSSMANN, Marcus	(54) BEAM FAILURE RECOVERY METHOD AND TERMINAL
SEIFI, Nima	LANDMANN, Markus	(73) Vivo Mobile Communication Co., Ltd.
BERGMAN, Svante	(31) 19164947	(72) YANG, Yu
(51) H04B 7/0404	19155102	(31) 201710295923
H04W 52/08	18215815	(32) 28.04.2017
H04W 52/42	(32) 25.03.2019	(33) China
H04B 7/06	01.02.2019	(51) H04B 7/06
H04W 52/24	22.12.2018	H04W 72/04
H04W 52/54	(33) European Patent Office (EPO)	H04L 25/02
(11) EP3675379	European Patent Office (EPO)	(11) EP3799326
(21) EP20152071.5	European Patent Office (EPO)	(21) EP19826354.3
(47) 13.09.2023	(51) H04B 7/06	(47) 13.09.2023
(22) 04.08.2010	H04B 7/08	(87) CN2019093232
(54) METHOD AND APPARATUS FOR UPLINK POWER CONTROL FOR MULTIPLE TRANSMIT ANTENNAS	H04W 28/02	02.01.2020
(73) QUALCOMM Incorporated	H04L 5/00	(22) 27.06.2019
(72) ZHANG, Xiaoxia	H04L 27/00	(54) BEAM SELECTION METHOD, DEVICE, AND STORAGE MEDIUM
LUO, Tao	H04W 74/08	(73) HUAWEI TECHNOLOGIES CO., LTD.
(31) 84895910	(11) EP3900249	(72) ZHANG, Pengcheng
23129309 P	(21) EP19839073.4	(31) 201810689743
(32) 02.08.2010	(47) 13.09.2023	(32) 28.06.2018
04.08.2009	(87) US2019067388	(33) China
(33) United States of America	25.06.2020	(51) H04B 7/08
United States of America	(22) 19.12.2019	H04B 7/06
(51) H04B 7/0417	(54) QUASI CO-LOCATION RESET FOR A USER EQUIPMENT SUPPORTING A SINGLE ACTIVE TRANSMISSION CONFIGURATION INDICATION STATE	H04L 1/16
H04B 7/0456	(73) QUALCOMM Incorporated	(11) EP3840248
H04L 5/00	(72) ZHOU, Yan	(21) EP21153821.0
H04W 72/0453	LUO, Tao	(47) 13.09.2023
H04W 72/1268	(31) 201916719826	(22) 30.12.2016
H04W 72/23	201862782822 P	(54) INFORMATION TRANSMISSION METHOD, NETWORK DEVICE, AND TERMINAL DEVICE
(11) EP3665784	(32) 18.12.2019	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(21) EP18766078.2	20.12.2018	(72) TANG, Hai
(47) 13.09.2023	(33) United States of America	(51) H04B 7/185
(87) US2018046197	United States of America	(11) EP3520245
14.02.2019	(51) H04B 7/06	(21) EP17758828.2
(22) 10.08.2018	H04L 5/00	(47) 13.09.2023
(54) PRECODING REFERENCE SIGNALS FOR UPLINK TRANSMISSION WITH DOWNLINK INTERFERENCE INFORMATION	G01S 1/08	(87) EP2017070690
(73) QUALCOMM Incorporated	G01S 1/44	05.04.2018
(72) AKKARAKARAN, Sony	(11) EP3804166	(22) 15.08.2017
LUO, Tao	(21) EP19732799.2	(54) CELLULAR TELEPHONY
(31) 201816059603	(47) 13.09.2023	(73) British Telecommunications public limited company
201762544417 P	(87) US2019034379	(72) GHOSH, Ayan
(32) 09.08.2018	05.12.2019	HANIF, Mansoor
11.08.2017	(22) 29.05.2019	(31) 16191547
(33) United States of America	(54) NODE-SPECIFIC PERMUTATION OF THE ORDER OF TRANSMISSION OF POSITIONING BEACON BEAMS	(32) 29.09.2016
United States of America	(73) QUALCOMM INCORPORATED	(33) European Patent Office (EPO)
(51) H04B 7/0456	(72) SADIQ, Bilal	(51) H04B 7/185
(11) EP3900208	ABEDINI, Navid	H04B 7/204
(21) EP19817736.2	ISLAM, Muhammad Nazmul	(11) EP3635881
(47) 13.09.2023	(31) 201916423859	(21) EP18728423.7
(87) EP2019085226	201862678248 P	(47) 13.09.2023
25.06.2020	(32) 28.05.2019	(87) EP2018065195
(22) 16.12.2019	30.05.2018	13.12.2018
(54) METHODS AND APPARATUSES FOR CODEBOOK RESTRICTION FOR TYPE-II FEEDBACK REPORTING AND HIGHER LAYER CONFIGURATION AND REPORTING FOR LINEAR COMBINATION CODEBOOK IN A WIRELESS COMMUNICATIONS NETWORK	(33) United States of America	(22) 08.06.2018
	United States of America	(54) TELECOMMUNICATIONS SATELLITE, BEAMFORMING METHOD AND METHOD FOR MANUFACTURING A SATELLITE PAYLOAD
	(51) H04B 7/06	(73) Airbus Defence and Space SAS
	H04W 24/04	Centre National d'Etudes Spatiales
	H04W 76/19	(CNES)
	(11) EP3618487	
	(21) EP18789860.6	
	(47) 13.09.2023	
	(87) CN2018084816	

(72) TUGEND, Vincent	MIELNIK, David	(54) WIRELESS COMMUNICATION
(31) 1755169	SANGUINETI, Marco	APPARATUS AND WIRELESS
(32) 09.06.2017	HEILMAN, Thomas	COMMUNICATION METHOD
(33) France	RACKOVAN, Mitchell Jordan	(73) Nippon Telegraph and Telephone
(51) H04B 10/116	GORE, Rahul Kumar	Corporation
H04B 10/079	KUMAR, Ravish	(72) FUKUZONO Hayato
(11) EP4073958	(31) 201841049073	MURAKAMI Tomoki
(21) EP20817019.1	(32) 26.12.2018	KUDO Riichi
(47) 13.09.2023	(33) India	SHINOHARA Shoko
(87) EP2020084937	(51) H04J 11/00	TAKATORI Yasushi
17.06.2021	H04B 7/06	MIZOGUCHI Masato
(22) 07.12.2020	H04B 7/024	(31) 2014096090
(54) A COMPUTING DEVICE	H04W 16/10	2014089589
(73) Signify Holding B.V.	(11) EP3804182	2014080530
(72) GERME, Michel	(21) EP20718012.6	2013218537
HASSAN, Muhammad	(47) 13.09.2023	2013110267
(31) 20160152	(87) US2020021840	(32) 07.05.2014
19216209	17.09.2020	23.04.2014
(32) 28.02.2020	(22) 10.03.2020	09.04.2014
13.12.2019	(54) BASE STATION COORDINATION	21.10.2013
(33) European Patent Office (EPO)	FOR CROSS-LINK INTERFERENCE	24.05.2013
European Patent Office (EPO)	CANCELATION	(33) Japan
(51) H04B 10/272	(73) Google LLC	Japan
H04B 10/61	(72) WANG, Jibing	Japan
H04B 10/69	STAUFFER, Erik Richard	Japan
H04J 14/02	(31) 201916355640	Japan
(11) EP3815267	201962816894 P	(51) H04L 1/00
(21) EP19752905.0	(32) 15.03.2019	(11) EP3619847
(47) 13.09.2023	11.03.2019	(21) EP18732174.0
(87) US2019044984	(33) United States of America	(47) 13.09.2023
06.02.2020	United States of America	(87) US2018030690
(22) 02.08.2019	(51) H04J 11/00	08.11.2018
(54) SYSTEM AND METHODS FOR	H04L 27/26	(22) 02.05.2018
COHERENT BURST RECEPTION	(11) EP3584968	(54) INDICATION FOR A TRANSPORT
(73) Cable Television Laboratories, Inc.	(21) EP19188986.4	BLOCK
(72) ZHANG, Junwen	(47) 13.09.2023	(73) Motorola Mobility LLC
CAMPOS, Luis Alberto	(22) 03.03.2014	(72) LOEHR, Joachim
JIA, Zhensheng	(54) TRANSMISSION APPARATUS	BASU MALLICK, Prateek
(31) 201862713691 P	(73) Mitsubishi Electric Corporation	KUCHIBHOTLA, Ravi
(32) 02.08.2018	(72) HASEGAWA, Fumihiko	(31) 201715584988
(33) United States of America	NISHIMOTO, Hiroshi	(32) 02.05.2017
(51) H04H 40/72	HIGASHINAKA, Masatsugu	(33) United States of America
H04B 7/08	OKAZAKI, Akihiro	(51) H04L 1/00
(11) EP3046277	(31) 2013041963	(11) EP3890258
(21) EP15151644.0	(32) 04.03.2013	(21) EP19889431.3
(47) 13.09.2023	(33) Japan	(47) 13.09.2023
(22) 19.01.2015	(51) H04J 14/02	(87) CN2019120843
(54) Method and system for reception	H04J 14/08	04.06.2020
improvement of an FM tuner in a	H04Q 11/00	(22) 26.11.2019
common channel interference situation	(11) EP3748880	(54) NETWORK APPARATUS, AND
(73) Harman Becker Automotive Systems	(21) EP19179185.4	CONVERSION DEVICE
GmbH	(47) 13.09.2023	(73) New H3C Technologies Co., Ltd.
(72) Becker, Karl-Anton	(22) 07.06.2019	(72) LI, Yuewu
Benz, Christoph	(54) FULL DUPLEX OPTICAL	(31) 201811422473
Schmauderer, Philipp	COMMUNICATION WITH IMPROVED	(32) 27.11.2018
Hamm, Patrick	SPECTRAL EFFICIENCY	(33) China
(51) H04J 3/06	(73) Nokia Technologies Oy	(51) H04L 1/00
H04L 47/28	(72) Maes, Jochen	H04J 7/00
H04L 12/40	(51) H04J 99/00	H04L 5/04
(11) EP3903454	H04J 11/00	(11) EP3939189
(21) EP19836825.0	H04W 16/28	(21) EP20720589.9
(47) 13.09.2023	(11) EP2988443	(47) 13.09.2023
(87) IB2019060742	(21) EP14801450.9	(87) US2020024366
02.07.2020	(47) 13.09.2023	22.10.2020
(22) 13.12.2019	(87) JP2014063701	(22) 24.03.2020
(54) A TSN ENABLED CONTROLLER	27.11.2014	(54) BLIND DETECTION MODEL
(73) ABB Schweiz AG	(22) 23.05.2014	OPTIMIZATION
(72) KANDE, Mallikarjun		(73) Microsoft Technology Licensing, LLC

(72) HASSAN, Amer Aref (31) 201916387791 (32) 18.04.2019 (33) United States of America	(54) ZERO POWER (ZP) CHANNEL STATE INFORMATION REFERENCE SIGNAL (CSI-RS) RATE MATCHING WITH SLOT AGGREGATION	H04W 4/70 H04W 56/00 H04W 72/12 H04W 76/27
(51) H04L 1/00 H04L 1/18 H04N 21/44 (11) EP3759847 (21) EP18709965.0 (47) 13.09.2023 (87) EP2018054884 06.09.2019 (22) 28.02.2018	(73) QUALCOMM Incorporated (72) HOSSEINI, Seyedkianoush MANOLAKOS, Alexandros (31) 20180100386 201916531806 (32) 13.08.2018 05.08.2019 (33) Greece United States of America	(11) EP4018759 (21) EP20872591.1 (47) 13.09.2023 (87) KR2020013302 08.04.2021 (22) 29.09.2020 (54) COMPLETION MECHANISM FOR TRANSMISSION USING PRECONFIGURED UPLINK RESOURCE
(54) DECODING OF A MEDIA STREAM AT A PACKET RECEIVER (73) Telefonaktiebolaget LM Ericsson (publ) (72) SAMUELSON, Alfred	(51) H04L 1/08 (11) EP3827536 (21) EP19740392.6 (47) 13.09.2023 (87) EP2019069530 30.01.2020 (22) 19.07.2019 (54) BASE STATION, USER EQUIPMENT, CIRCUITRY AND METHOD (73) Sony Group Corporation (72) WONG, Shin Horng BEALE, Martin Warwick SHIMEZAWA, Kazuyuki AWAD, Yassin Aden (31) 18185543 (32) 25.07.2018 (33) European Patent Office (EPO)	(73) LG Electronics Inc. (72) CHOE, Hyunjung YI, Seungjune LEE, Jeonggu (31) 201962910349 P (32) 03.10.2019 (33) United States of America
(51) H04L 1/00 H04L 27/26 H04W 84/12 H04L 5/00 (11) EP3419203 (21) EP17753371.8 (47) 13.09.2023 (87) KR2017000527 24.08.2017 (22) 16.01.2017 (54) METHOD FOR TRANSMITTING AND RECEIVING UPLINK ACKNOWLEDGEMENT SIGNAL IN WIRELESS LAN SYSTEM AND APPARATUS THEREFOR (73) LG Electronics Inc. (72) KIM, Jeongki RYU, Kiseon CHO, Hangyu (31) 201662329172 P 201662296082 P (32) 28.04.2016 17.02.2016 (33) United States of America United States of America	(51) H04L 1/08 H04L 1/1867 (11) EP3925115 (21) EP20708230.6 (47) 13.09.2023 (87) SE2020050155 20.08.2020 (22) 13.02.2020 (54) RELIABILITY ENHANCEMENT FOR USER EQUIPMENT WITH PARTIAL REPETITIONS IN CONFIGURED GRANT (73) Telefonaktiebolaget LM Ericsson (publ) (72) SINGH, Bikramjit BLANKENSHIP, Yufei GERAMI, Majid (31) 201962806552 P (32) 15.02.2019 (33) United States of America	(51) H04L 1/18 H04L 1/08 (11) EP3940979 (21) EP21183871.9 (47) 13.09.2023 (22) 06.07.2021 (54) METHOD AND APPARATUS FOR HANDLING A DRX TIMER FOR BUNDLE OF A CONFIGURED UPLINK GRANT IN A WIRELESS COMMUNICATION SYSTEM (73) ASUSTek Computer Inc. (72) HUANG, Yi-Hsuan TSENG, Li-Chih OU, Meng-Hui (31) 202063051236 P 202063051228 P 202063051214 P 202063051205 P (32) 13.07.2020 13.07.2020 13.07.2020 13.07.2020 (33) United States of America United States of America United States of America United States of America
(51) H04L 1/00 H04W 72/04 H04L 5/00 (11) EP3790207 (21) EP18917981.5 (47) 13.09.2023 (87) CN2018086617 14.11.2019 (22) 11.05.2018 (54) INFORMATION TRANSMISSION METHOD, COMMUNICATION DEVICE, AND NETWORK DEVICE (73) HUAWEI TECHNOLOGIES CO., LTD. (72) ZHAO, Yue YU, Zheng	(51) H04L 1/08 H04L 5/00 H04B 7/024 (11) EP3979687 (21) EP20819073.6 (47) 13.09.2023 (87) JP2020017096 10.12.2020 (22) 20.04.2020 (54) INFORMATION PROCESSING DEVICE AND INFORMATION PROCESSING METHOD (73) Sony Group Corporation (72) SATO, Masanori KIRIYAMA, Sawako (31) 2019103498 (32) 03.06.2019 (33) Japan	(51) H04L 1/18 H04L 1/16 H04L 5/00 (11) EP3595220 (21) EP18817793.5 (47) 13.09.2023 (87) CN2018091187 20.12.2018 (22) 14.06.2018 (54) METHOD AND APPARATUS FOR SENDING AND RECEIVING FEEDBACK INFORMATION (73) Huawei Technologies Co. Ltd. (72) ZHOU, Yongxing XUE, Lixia SUN, Hao (31) 201710459591 (32) 16.06.2017 (33) China
(51) H04L 1/00 H04W 72/04 H04L 5/00 H04L 1/08 (11) EP3837783 (21) EP19755494.2 (47) 13.09.2023 (87) US2019045289 20.02.2020 (22) 06.08.2019	(51) H04L 1/16	(51) H04L 1/18

H04W 72/04	(33) United States of America	(54) SINGLE SLOT SHORT PUCCH
H04L 1/1822	United States of America	WITH SUPPORT FOR INTRA SLOT
H04L 1/1867	(51) H04L 5/00	FREQUENCY HOPPING
(11) EP3863202	(11) EP3742654	(73) Qualcomm Incorporated
(21) EP18938729.3	(21) EP20173241.9	(72) HOSSEINI, Seyedkianoush
(47) 13.09.2023	(47) 13.09.2023	CHEN, Wanshi
(87) CN2018113807	(22) 06.05.2020	(31) 201815892054
07.05.2020	(54) COMMUNICATIONS APPARATUS AND	201762476653 P
(22) 02.11.2018	METHODS	(32) 08.02.2018
(54) WIRELESS COMMUNICATION	(73) Nokia Solutions and Networks Oy	24.03.2017
METHOD, TERMINAL DEVICE AND	(72) Alanen, Olli	(33) United States of America
NETWORK DEVICE	Kasslin, Mika	United States of America
(73) GUANGDONG OPPO MOBILE	Kolmonen, Veli-Matti	(51) H04L 5/00
TELECOMMUNICATIONS CORP., LTD.	Marin, Janne	H04B 7/024
(72) SHI, Zhihua	Rantala, Enrico-Henrik	(11) EP3834331
CHEN, Wenhong	(31) 20195423	(21) EP18929303.8
FANG, Yun	(32) 22.05.2019	(47) 13.09.2023
ZHANG, Zhi	(33) Finland	(87) CN2018100071
(51) H04L 1/1812	(51) H04L 5/00	13.02.2020
H04L 1/1829	(11) EP3335356	(22) 10.08.2018
H04L 1/1867	(21) EP16748386.6	(54) QUASI-COLOCATION INDICATION FOR
H04L 5/00	(47) 13.09.2023	NON-ZERO POWER CHANNEL STATE
H04W 72/23	(87) US2016041731	INFORMATION REFERENCE SIGNAL
(11) EP3701656	16.02.2017	PORT GROUPS
(21) EP18800455.0	(22) 11.07.2016	(73) Qualcomm Incorporated
(47) 13.09.2023	(54) LTE-DIRECT COMMUNICATION FOR	(72) HAO, Chenxi
(87) US2018057779	VEHICLE-TO-VEHICLE	ZHANG, Yu
02.05.2019	(73) Qualcomm Incorporated	MANOLAKOS, Alexandros
(22) 26.10.2018	(72) TAVILDAR, Saurabha Rangrao	WEI, Chao
(54) SEMI-PERSISTENT SCHEDULING	ABEDINI, Navid	XU, Hao
MANAGEMENT IN NEW RADIO	(31) 201514822555	CHEN, Wanshi
(73) QUALCOMM Incorporated	(32) 10.08.2015	GAAL, Peter
(72) CHEN, Wanshi	(33) United States of America	(51) H04L 5/00
ANG, Peter, Pui Lok	(51) H04L 5/00	H04B 7/0452
GAAL, Peter	(11) EP3961965	H04B 7/024
MONTOJO, Juan	(21) EP21201333.8	H04B 7/026
LUO, Tao	(47) 13.09.2023	(11) EP3881473
LEE, Heechoon	(22) 07.01.2019	(21) EP19798665.6
HE, Linhai	(54) DEVICE AND METHOD FOR	(47) 13.09.2023
(31) 201816171035	HANDLING COMMUNICATION DEVICE	(87) EP2019081037
201762582007 P	CAPABILITIES	22.05.2020
201762577696 P	(73) HTC Corporation	(22) 12.11.2019
(32) 25.10.2018	(72) WU, Chih-Hsiang	(54) USER EQUIPMENT AND NETWORK
06.11.2017	(31) 201862614485 P	NODE INVOLVED IN THE
26.10.2017	(32) 07.01.2018	TRANSMISSION OF SIGNALS
(33) United States of America	(33) United States of America	(73) Panasonic Intellectual Property
United States of America	(51) H04L 5/00	Corporation of America
United States of America	(11) EP2777208	(72) BHAMRI, Ankit
(51) H04L 1/1867	(21) EP12788302.3	SUZUKI, Hidetoshi
H04L 5/00	(47) 13.09.2023	(31) 18205761
H04L 1/1825	(87) JP2012078551	(32) 12.11.2018
(11) EP3994819	16.05.2013	(33) European Patent Office (EPO)
(21) EP20730945.1	(22) 29.10.2012	(51) H04L 5/00
(47) 13.09.2023	(54) COMMUNICATION SYSTEM	H04L 1/00
(87) US2020033811	(73) NEC Corporation	H04L 1/1829
07.01.2021	(72) AWAD, Yassin Aden	(11) EP3955497
(22) 20.05.2020	SEO, Kay	(21) EP19924101.9
(54) ADAPTIVE HYBRID AUTOMATIC	(31) 201119207	(47) 13.09.2023
REPEAT REQUEST (HARQ)	(32) 07.11.2011	(87) CN2019081949
COMMUNICATION	(33) United Kingdom	15.10.2020
(73) QUALCOMM INCORPORATED	(51) H04L 5/00	(22) 09.04.2019
(72) BAI, Tianyang	(11) EP3602907	(54) DATA FEEDBACK METHOD AND
LI, Junyi	(21) EP18707803.5	APPARATUS, DATA TRANSMISSION
LUO, Tao	(47) 13.09.2023	METHOD AND APPARATUS, BASE
(31) 202016878322	(87) US2018017604	STATION, AND USER EQUIPMENT
201962869334 P	27.09.2018	(73) Beijing Xiaomi Mobile Software Co., Ltd.
(32) 19.05.2020	(22) 09.02.2018	(72) LI, Yuanyuan
01.07.2019		(51) H04L 5/00

H04L 5/14	(22) 23.08.2018	CALLENDER, Christopher
(11) EP3316509	(54) DISCOVERY PROCEDURES FOR	EVERAERE, Dominique
(21) EP16813518.4	MULTI-BAND OPERATION	KAZMI, Muhammad
(47) 13.09.2023	(73) QUALCOMM Incorporated	SUNDBERG, Mårten
(87) CN2016075346	(72) MALIK, Rahul	(31) 201662421582 P
29.12.2016	YERRAMALLI, Srinivas	(32) 14.11.2016
(22) 02.03.2016	(31) 201816109241	(33) United States of America
(54) METHOD AND DEVICE FOR	201762550499 P	(51) H04L 5/00
TRANSMITTING SIGNAL	(32) 22.08.2018	H04W 56/00
(73) ZTE Corporation	25.08.2017	(11) EP3535914
(72) HAO, Peng	(33) United States of America	(21) EP17804025.9
LI, Jian	United States of America	(47) 13.09.2023
YAN, Xiao	(51) H04L 5/00	(87) US2017059975
(31) 201510355058	H04W 52/02	11.05.2018
(32) 24.06.2015	H04L 1/00	(22) 03.11.2017
(33) China	(11) EP3958621	(54) DECOUPLING OF SYNCHRONIZATION
(51) H04L 5/00	(21) EP20799012.8	RASTER AND CHANNEL RASTER
H04L 27/00	(47) 13.09.2023	(73) QUALCOMM Incorporated
H04W 72/04	(87) CN2020087651	(72) LY, Hung
(11) EP3740008	05.11.2020	CHEN, Wanshi
(21) EP19763266.4	(22) 29.04.2020	LEE, Heechoon
(47) 13.09.2023	(54) METHOD AND DEVICE FOR	XU, Hao
(87) CN2019077124	DETECTING OR TRANSMITTING	(31) 201715802181
12.09.2019	DOWNLINK CONTROL CHANNEL	201662417993 P
(22) 06.03.2019	(73) Huawei Technologies Co., Ltd.	(32) 02.11.2017
(54) METHOD FOR DETERMINING	(72) CHEN, Zheng	04.11.2016
LOCATION OF CONTROL CHANNEL,	XUE, Lixia	(33) United States of America
AND DEVICE AND PROCESSOR-	TIE, Xiaolei	United States of America
READABLE STORAGE MEDIUM	(31) 201910364602	(51) H04L 5/00
(73) HUAWEI TECHNOLOGIES CO., LTD.	(32) 30.04.2019	H04W 56/00
(72) ZHENG, Juan	(33) China	H04W 4/46
GUAN, Lei	(51) H04L 5/00	H04L 27/26
MA, Sha	H04W 52/04	H04B 7/0404
(31) 201810183089	(11) EP3834344	H04B 7/06
(32) 06.03.2018	(21) EP19756456.0	(11) EP3876612
(33) China	(47) 13.09.2023	(21) EP19895766.4
(51) H04L 5/00	(87) US2019045855	(47) 13.09.2023
H04L 27/26	13.02.2020	(87) CN2019123116
H04W 72/04	(22) 09.08.2019	18.06.2020
H04L 25/02	(54) POWER CONTROL FOR SHORTENED	(22) 04.12.2019
(11) EP3665831	TRANSMISSION TIME INTERVALS	(54) METHOD AND DEVICE FOR
(21) EP18759803.2	(73) QUALCOMM Incorporated	TRANSMITTING AND RECEIVING
(47) 13.09.2023	(72) HOSSEINI, Seyedkianoush	SYNCHRONIZATION SIGNAL BLOCK
(87) US2018045856	RICO ALVARINO, Alberto	(73) Huawei Technologies Co., Ltd.
14.02.2019	FARAJIDANA, Amir	(72) YUAN, Pu
(22) 08.08.2018	(31) 201916536002	(31) 201811513585
(54) CONFIGURATION OF SOUNDING	201862717757 P	(32) 11.12.2018
REFERENCE SIGNAL RESOURCES	(32) 08.08.2019	(33) China
IN AN UPLINK TRANSMISSION TIME	10.08.2018	(51) H04L 5/00
INTERVAL	(33) United States of America	H04W 72/04
(73) QUALCOMM Incorporated	United States of America	(11) EP3793121
(72) MANOLAKOS, Alexandros	(51) H04L 5/00	(21) EP19799963.4
CHEN, Wanshi	H04W 52/18	(47) 13.09.2023
LUO, Tao	H04W 72/04	(87) CN2019086126
GAAL, Peter	H04W 72/12	14.11.2019
(31) 20170100374	(11) EP3539252	(22) 09.05.2019
201816057625	(21) EP17811382.5	(54) QUASI CO-LOCATION
(32) 10.08.2017	(47) 13.09.2023	CONFIGURATION METHOD,
07.08.2018	(87) IB2017057116	TERMINAL, AND NETWORK DEVICE
(33) Greece	17.05.2018	(73) Vivo Mobile Communication Co., Ltd.
United States of America	(22) 14.11.2017	(72) SI, Ye
(51) H04L 5/00	(54) DERIVING CONFIGURED OUTPUT	SUN, Peng
H04W 48/16	POWER FOR CONSECUTIVE	(31) 201810451283
(11) EP3673604	TRANSMISSION TIME INTERVALS	(32) 11.05.2018
(21) EP18766089.9	(TTIS) IN SHORTENED TTI PATTERNS	(33) China
(47) 13.09.2023	(73) Telefonaktiebolaget LM Ericsson (publ)	(51) H04L 5/00
(87) US2018047766	(72) RAHMAN, imadur	H04W 76/19
28.02.2019	BERGLJUNG, Christian	H04W 74/00

(11) EP3793291	(51) H04L 9/00	(47) 13.09.2023
(21) EP19800444.2	H04L 9/32	(22) 11.02.2020
(47) 13.09.2023	H04L 9/08	(54) PHYSICALLY NON-CLONABLE
(87) CN2019086417	(11) EP3881486	FUNCTION DEVICE WITH FLOATING
14.11.2019	(21) EP20706948.5	SCREEN TRANSISTORS, AND
(22) 10.05.2019	(47) 13.09.2023	METHOD FOR MANUFACTURING
(54) LINK RECOVERY METHOD AND	(87) EP2020053131	SAME
DEVICE	20.08.2020	(73) STMicroelectronics (Rousset) SAS
(73) Huawei Technologies Co., Ltd.	(22) 07.02.2020	(72) LA ROSA, Francesco
(72) LIU, Kunpeng	(54) METHOD FOR PROVIDING PROOF OF	(31) 1901791
ZHANG, Di	ORIGIN FOR A DIGITAL KEY PAIR	(32) 22.02.2019
ZHANG, Xu	(73) Siemens Aktiengesellschaft	(33) France
XUE, Lixia	(72) BROCKHAUS, Hendrik	(51) H04L 9/08
(31) 201810451036	BUSSER, Jens-Uwe	H04L 9/32
(32) 11.05.2018	(31) 19156685	H04L 9/40
(33) China	(32) 12.02.2019	H04L 9/00
(51) H04L 7/00	(33) European Patent Office (EPO)	G06F 21/64
G06F 1/03	(51) H04L 9/00	(11) EP3848845
(11) EP3675412	H04L 9/32	(21) EP21150794.2
(21) EP19220207.5	H04L 9/40	(47) 13.09.2023
(47) 13.09.2023	G06F 9/50	(22) 08.01.2021
(22) 31.12.2019	G06F 21/52	(54) METHODS OF PROVING THE
(54) DIGITAL SIGNAL PROCESSING	G06F 21/64	IMMUTABILITY OF DIGITAL RECORDS
WAVEFORM SYNTHESIS FOR FIXED	G06Q 20/02	(73) ParallelChain Lab Private Limited
SAMPLE RATE SIGNAL SOURCES	(11) EP3896633	(72) HUANG, Ian Yuan Yuan
(73) Tektronix, Inc.	(21) EP19895966.0	MA, Eric Zhiqiang
(72) MARTIN, Gregory	(47) 13.09.2023	(31) 202016739088
SATARZADEH, Patrick	(87) CN2019122585	(32) 09.01.2020
PICKERD, John	18.06.2020	(33) United States of America
KNIERIM, Daniel G	(22) 03.12.2019	(51) H04L 9/08
(31) 201916554548	(54) TASK PROCESSING METHOD,	H04L 51/18
201862787192 P	SYSTEM AND DEVICE, AND STORAGE	H04L 9/40
(32) 28.08.2019	MEDIUM	H04L 51/224
31.12.2018	(73) Tencent Technology (Shenzhen)	H04L 67/55
(33) United States of America	Company Limited	(11) EP3673626
United States of America	(72) YANG, Jingyu	(21) EP19738535.4
(51) H04L 9/00	MA, Maogang	(47) 13.09.2023
(11) EP3681093	LIU, Guize	(87) US2019012942
(21) EP19207028.2	MA, Jinsong	18.07.2019
(47) 13.09.2023	(31) 201811510203	(22) 09.01.2019
(22) 04.05.2012	(32) 11.12.2018	(54) EMAIL NOTIFICATION SYSTEM
(54) SECURE IMPLICIT CERTIFICATE	(33) China	(73) VMware, Inc.
CHAINING	(51) H04L 9/00	(72) RAGSDALE, Ian
(73) BlackBerry Limited	H04L 9/32	FOSTER, Neal
(72) KRAVITZ, David William	H04L 9/40	HURST, Evan
ZAVERUCHA, Gregory Marc	H04W 12/084	NIEVES, Ruben
BROWN, Daniel Richard L	G06F 21/62	(31) 201815867586
(31) 201161495788 P	(11) EP3777028	(32) 10.01.2018
(32) 10.06.2011	(21) EP19781804.0	(33) United States of America
(33) United States of America	(47) 13.09.2023	(51) H04L 9/28
(51) H04L 9/00	(87) US2019025221	G06F 21/62
H04L 9/08	10.10.2019	G06Q 20/40
H04L 9/32	(22) 01.04.2019	G06Q 50/20
G06F 21/60	(54) GENERATING AND LINKING PRIVATE	H04L 9/30
G06Q 30/018	TRANSACTION IDENTIFIERS TO	G06Q 20/38
G06Q 30/0601	DISTRIBUTED DATA REPOSITORIES	H04L 9/00
(11) EP3917075	(73) Fortifid, Inc.	A61B 5/00
(21) EP21186609.0	(72) KOTHAVALA, Shantanu Rajkumar	G16H 10/60
(47) 13.09.2023	BASAK, Anirban	G16H 10/40
(22) 17.10.2018	(31) 201816219745	G06N 20/00
(54) METHOD AND APPARATUS FOR	201862651264 P	(11) EP3443706
ENCRYPTING AND DECRYPTING	(32) 13.12.2018	(21) EP17781666.7
PRODUCT INFORMATION	02.04.2018	(47) 13.09.2023
(73) Advanced New Technologies Co., Ltd.	(33) United States of America	(87) CA2017050382
(72) WANG, Husen	United States of America	19.10.2017
(31) 201711183121	(51) H04L 9/08	(22) 27.03.2017
(32) 23.11.2017	(11) EP3700126	(54) SYSTEM AND METHODS
(33) China	(21) EP20156558.7	FOR VALIDATING AND

PERFORMING OPERATIONS ON HOMOMORPHICALLY ENCRYPTED DATA	YU, Benquan YANG, Xinying YAN, Wenyuan	(11) EP4144060 (21) EP20733360.0 (47) 13.09.2023
(73) Lorica Cybersecurity Inc.	(51) H04L 9/32	(87) EP2020065044
(72) GULAK, Glenn KHEDR, Alhassan	H04W 4/70 H04L 41/0213	02.12.2021 (22) 29.05.2020
(31) 201662417490 P 201662321411 P	H04L 41/0226 H04L 41/12	(54) RESPECTING THE VERSION OF THE TRANSMISSION PROTOCOL IN LEGAL INTERCEPTION
(32) 04.11.2016 12.04.2016	H04L 43/0817 H04L 9/40	(73) Telefonaktiebolaget LM Ericsson (PUBL)
(33) United States of America United States of America	H04W 12/50 H04L 67/12	(72) GAITO, Daniele CATAPANO, Rosa CELOZZI, Giuseppe DI MAURO, Gianpaolo FALANGA, Gennaro ATTANASIO, Francesco VILLANI, Elvira
(51) H04L 9/32 G06F 21/55 G06F 21/64 G06F 21/73 G06F 21/86	H04L 67/025 H04L 67/125 H04L 67/146 H04L 69/329 H04W 12/06	(51) H04L 9/40 H04L 67/565 G06K 19/06 G06Q 20/22
(11) EP3900258	(11) EP3829141	(11) EP3763095
(21) EP19813512.1	(21) EP21153051.4	(21) EP18909023.6
(47) 13.09.2023	(47) 13.09.2023	(47) 13.09.2023
(87) EP2019083458 25.06.2020	(22) 12.07.2017	(87) US2018021526 12.09.2019
(22) 03.12.2019	(54) CLOUD ASSISTED MANAGEMENT OF DEVICES	(22) 08.03.2018
(54) METHOD FOR GUARDING THE INTEGRITY OF A PHYSICAL OBJECT	(73) Schneider Electric IT Corporation (72) COHEN, Daniel C. MCCAULEY, Colm SMITH, Alan Dean JANSON, Maarten	(54) METHOD FOR PROVIDING DATA SECURITY USING ONE-WAY TOKEN
(73) Unicon universal identity control GmbH	(31) 201615219843	(73) VISA INTERNATIONAL SERVICE ASSOCIATION
(72) JÄGER, Hubert WÜRL, Andreas KARATZAS, Christos	(32) 26.07.2016 (33) United States of America	(72) KULPATI, Ashish RAJURKAR, Pankaj SINGH, Shantnu MODI, Vikram NAYAK, Koni Uttam
(31) 102018132996 (32) 19.12.2018 (33) Germany	(51) H04L 9/40	(51) H04L 9/40 H04L 69/324 H04L 9/08 H04W 12/0431 H04W 84/12
(51) H04L 9/32 H04L 9/00 G06F 21/64 G06F 9/52 G06F 9/46	(11) EP3903461 (21) EP19829519.8 (47) 13.09.2023 (87) EP2019085930 02.07.2020	(11) EP3860039 (21) EP21163714.5 (47) 13.09.2023 (22) 15.11.2017
(11) EP3961461	(22) 18.12.2019	(54) SYSTEM, METHOD AND DEVICES FOR MKA NEGOTIATION BETWEEN THE DEVICES
(21) EP21182373.7	(54) PACKET ANALYSIS AND FILTERING	(73) HUAWEI TECHNOLOGIES CO., LTD.
(47) 13.09.2023	(73) British Telecommunications public limited company	(72) POTHULA, Dharmanandana Reddy PADAMATI, Chandra Mohan PAUL, Antony QIN, Yun SHENG, De
(22) 29.06.2021	(72) WHITE, Catherine	(31) 201641040427
(54) METHOD AND APPARATUS FOR OBTAINING NUMBER FOR TRANSACTION-ACCESSED VARIABLE IN BLOCKCHAIN IN PARALLEL	(31) 18215867 (32) 24.12.2018 (33) European Patent Office (EPO)	(32) 26.11.2016 (33) India
(73) Alipay (Hangzhou) Information Technology Co., Ltd.	(51) H04L 9/40 G06F 21/34 H04L 9/32 G06F 21/32	(51) H04L 9/40 H04W 12/02 H04W 12/08 H04W 12/033 H04W 12/084 H04W 4/21 H04W 4/80
(72) Liu, Xiaojian	(11) EP3503608	(11) EP3412040
(31) 202010889818	(21) EP18211901.6	(21) EP16829473.4
(32) 28.08.2020	(47) 13.09.2023	(47) 13.09.2023
(33) China	(22) 12.12.2018	(87) US2016069386
(51) H04L 9/32 H04L 9/00 H04L 9/40 G06F 21/64 G06F 16/901	(54) AUTHENTICATION SYSTEM AND AUTHENTICATION DEVICE	
(11) EP3834157	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA NEC Corporation	
(21) EP20739146.7	(72) OKADA, Hiroki ATSUMI, Ryuta FUJISAKI, Satoshi HIROKI, Daisuke ASAI, Shinpei OOSUGI, Kouji	
(47) 13.09.2023	(31) 2017245370	
(87) CN2020086205 16.07.2020	(32) 21.12.2017 (33) Japan	
(22) 22.04.2020	(51) H04L 9/40 H04L 67/00	
(54) MANAGING TRANSACTION REQUESTS IN LEDGER SYSTEMS		
(73) Alipay (Hangzhou) Information Technology Co., Ltd.		
(72) ZHANG, Yuan LI, Yize		



04.01.2018	H04L 51/23	23.01.2019
(22) 30.12.2016	(11) EP3860044	(33) United States of America
(54) ACCESS CONTROL TECHNOLOGY FOR PEER-TO-PEER CONTENT SHARING	(21) EP21150426.1	United States of America
(73) Google LLC	(47) 13.09.2023	<hr/>
(72) ISLES, Adrian	(22) 06.01.2021	(51) H04L 25/03
SRINIVASAN, Arvind	(54) PARTIAL MESSAGE DELIVERY AND STATUS NOTIFICATION IN AN END-TO-END SECURE MESSAGING CONTEXT	(11) EP3406061
DENTON, Samuel Thomas	(73) BlackBerry Limited	(21) EP17703547.4
DUONG, Thai	(72) SIRCAR, Shiladitya	(47) 13.09.2023
ANDERSON, Robert	(31) 202016777177	(87) US2017014192
KNAPP, Edward	(32) 30.01.2020	27.07.2017
LEVINE, Jonathan	(33) United States of America	(22) 19.01.2017
AKKAD, Jyotirmaya	<hr/>	(54) PARTIAL RESPONSE SIGNALING TECHNIQUES FOR SINGLE AND MULTI-CARRIER NONLINEAR SATELLITE SYSTEMS
(31) 201662399865 P	(51) H04L 12/28	(73) Hughes Network Systems, LLC
201615218807	G08C 17/00	(72) SESHADRI, Rohit, Iyer
201662355126 P	G08C 17/02	BEIDAS, Bassel, F.
(32) 26.09.2016	(11) EP3926893	(31) 201615000476
25.07.2016	(21) EP21180046.1	(32) 19.01.2016
27.06.2016	(47) 13.09.2023	(33) United States of America
(33) United States of America	(22) 17.06.2021	<hr/>
United States of America	(54) HOME APPLIANCE AND OPERATING METHOD THEREOF	(51) H04L 27/00
United States of America	(73) LG Electronics Inc.	H04L 1/00
United States of America	(72) LEE, Kiwoong	(11) EP3925180
<hr/>	(31) 20200074312	(21) EP20711681.5
(51) H04L 9/40	(32) 18.06.2020	(47) 13.09.2023
H04W 12/12	(33) Korea (Republic)	(87) US2020017143
H04W 4/12	<hr/>	20.08.2020
H04W 4/24	(51) H04L 12/28	(22) 07.02.2020
H04L 12/14	H04W 48/18	(54) COMMUNICATION USING MULTIPLE MODULATION CODING SCHEMES BASED ON DIFFERENCE IN TIME FROM DEMODULATION REFERENCE SIGNAL COMMUNICATION
H04M 15/00	H04W 88/06	(73) QUALCOMM INCORPORATED
H04M 17/00	(11) EP3744045	(72) ZAVUROV, Lev
(11) EP3756323	(21) EP19711580.1	SHAKED, Ronen
(21) EP18808270.5	(47) 13.09.2023	(31) 201916275082
(47) 13.09.2023	(87) EP2019056530	(32) 13.02.2019
(87) EP2018081904	19.09.2019	(33) United States of America
29.08.2019	(22) 15.03.2019	<hr/>
(22) 20.11.2018	(54) METHOD FOR CONFIGURING AND/OR CONTROLLING HOME AUTOMATION TERMINALS	(51) H04L 27/26
(54) FRAUDELENT SUBSCRIPTION DETECTION	(73) Schneider Electric Industries SAS	(11) EP3507956
(73) Telefonaktiebolaget LM Ericsson (publ)	(72) FABER, Dirk	(21) EP17758755.7
(72) EDMAN, Christine	BÜHNE, Christoph	(47) 13.09.2023
LILJENSTAM, Michael	GIEREND-BECK, Christian	(87) US2017047620
GIANNOKOSTAS, Vasileios	(31) 102018106197	08.03.2018
MÉHES, András	(32) 16.03.2018	(22) 18.08.2017
(31) 201862633089 P	(33) Germany	(54) FRAME FORMAT WITH MULTIPLE GUARD INTERVAL LENGTHS
(32) 21.02.2018	<hr/>	(73) QUALCOMM Incorporated
(33) United States of America	(51) H04L 12/40	(72) KASHER, Assaf Yaakov
<hr/>	H04L 12/10	EITAN, Alecsander Petru
(51) H04L 12/18	(11) EP3915229	SANDEROVICH, Amichai
H04L 45/16	(21) EP20703636.9	(31) 201715679710
H04L 61/5007	(47) 13.09.2023	201662381705 P
H04L 61/5038	(87) US2020012801	(32) 17.08.2017
H04L 101/668	30.07.2020	31.08.2016
H04L 101/604	(22) 08.01.2020	(33) United States of America
(11) EP3769477	(54) TRANSMISSION OF PULSE POWER AND DATA IN A COMMUNICATIONS NETWORK	United States of America
(21) EP19772509.6	(73) Cisco Technology, Inc.	<hr/>
(47) 13.09.2023	(72) JONES, Chad, M.	(51) H04L 27/26
(87) FI2019050157	GOERGEN, Joel, Richard	G01S 5/02
26.09.2019	ZIMMERMANN, George, Allan	G01S 5/00
(22) 27.02.2019	O'BRIEN, Richard, Anthony	G01S 5/10
(54) HIERARCHICAL BIT INDEXED REPLICATION OF MULTICAST PACKETS	ARDUINI, Douglas, Paul	H04B 7/06
(73) Nokia Solutions and Networks Oy	POTTERF, Jason, DeWayne	H04W 64/00
(72) DUTTA, Pranjal	BAEK, Sung Kee	(11) EP3928568
(31) 201815927760	(31) 201916704502	(21) EP20849873.3
(32) 21.03.2018	201916255657	(47) 13.09.2023
(33) United States of America	(32) 05.12.2019	(87) CN2020105108
<hr/>		
(51) H04L 12/18		
H04L 51/214		

11.02.2021	H04L 41/0806	(31) 201715797098
(22) 28.07.2020	H04L 43/062	201762478515 P
(54) METHOD AND APPARATUS FOR CONFIGURING PRS RESOURCES, UE AND NETWORK DEVICE	H04L 43/12	(32) 30.10.2017
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	H04L 45/00	29.03.2017
(72) GUO, Li	H04L 41/40	(33) United States of America
(31) 201962882421 P	H04L 43/20	United States of America
(32) 02.08.2019	H04L 43/026	(51) H04L 45/00
(33) United States of America	H04L 45/7453	H04L 67/562
(51) H04L 27/26	H04L 45/74	H04L 67/563
H04B 7/06	H04L 41/0654	H04L 67/60
H04W 16/28	(11) EP3879759	H04W 76/11
H04W 72/04	(21) EP21171659.2	H04W 76/12
H04L 5/00	(47) 13.09.2023	(11) EP3787258
(11) EP3579513	(22) 27.10.2017	(21) EP19838876.1
(21) EP18748354.0	(54) OPTIMIZED DATAPATH	(47) 13.09.2023
(47) 13.09.2023	TROUBLESHOOTING WITH TRACE	(87) CN2019096594
(87) JP2018003548	POLICY ENGINE	23.01.2020
09.08.2018	(73) TELEFONAKTIEBOLAGET LM	(22) 18.07.2019
(22) 02.02.2018	ERICSSON (PUBL)	(54) COMMUNICATION METHOD AND
(54) USER TERMINAL AND WIRELESS COMMUNICATION METHOD	(72) K, Faseela	APPARATUS
(73) NTT DOCOMO, INC.	C. H., Vyshakh Krishnan	(73) HUAWEI TECHNOLOGIES CO., LTD.
(72) TAKEDA, Kazuki	(51) H04L 41/0806	(72) LI, Hancheng
NAGATA, Satoshi	H04L 41/08	WU, Wenfu
MU, Qin	G06F 9/4401	ZHOU, Han
ZHANG, Xu	(11) EP3596882	(31) 201810799264
LIU, Liu	(21) EP18703566.2	(32) 19.07.2018
JIANG, Huiling	(47) 13.09.2023	(33) China
(31) 2017018953	(87) EP2018052737	(51) H04L 45/02
(32) 03.02.2017	20.09.2018	(11) EP3900281
(33) Japan	(22) 05.02.2018	(21) EP19821106.2
(51) H04L 27/26	(54) METHOD FOR AUTO-CONFIGURATION	(47) 13.09.2023
H04J 11/00	WITHIN A BROADBAND	(87) EP2019086184
H04B 7/26	ACCESS NETWORK OF A	25.06.2020
H04L 5/00	TELECOMMUNICATIONS NETWORK,	(22) 19.12.2019
H04L 25/02	TELECOMMUNICATIONS NETWORK,	(54) NETWORK EQUIPMENT WITH
(11) EP3737060	SYSTEM, AND CONTROL NODE	ROUTING FUNCTION BASED ON
(21) EP20181576.8	OF A CENTRAL OFFICE POINT	INTER-NETWORK POLICY
(47) 13.09.2023	OF DELIVERY, PROGRAM AND	(73) Airbus Defence and Space SAS
(22) 07.11.2012	COMPUTER PROGRAM PRODUCT	(72) POLETTI, Claude
(54) APPARATUS AND METHOD FOR ESTIMATING CHANNEL	(73) Deutsche Telekom AG	(31) 1873485
(73) Apple Inc.	(72) HAAG, Thomas	(32) 20.12.2018
(72) YOON, Sungjun	WAGNER, Paul	(33) France
(31) 20110115448	KOLBE, Hans-Jörg	(51) H04L 45/64
(32) 07.11.2011	SOUKUP, Robert	H04L 45/00
(33) Korea (Republic)	PAUL, Manuel	H04L 45/745
(51) H04L 27/26	(31) 17160638	H04L 12/66
H04L 1/00	(32) 13.03.2017	(11) EP3673627
H04W 74/00	(33) European Patent Office (EPO)	(21) EP18765277.1
(11) EP3820230	(51) H04L 41/0893	(47) 13.09.2023
(21) EP19841289.2	H04L 41/0895	(87) US2018047570
(47) 13.09.2023	G06F 11/30	07.03.2019
(87) CN2019097877	G06F 11/34	(22) 22.08.2018
30.01.2020	G06F 12/084	(54) PERFORMING IN-LINE SERVICE IN
(22) 26.07.2019	G06F 12/0842	PUBLIC CLOUD
(54) RANDOM ACCESS METHOD AND APPARATUS	G06F 9/50	(73) Nicira, Inc.
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(11) EP3382543	(72) HIRA, Mukesh
(72) XU, Weijie	(21) EP18152882.9	(31) 201762550675 P
(31) 201810846923	(47) 13.09.2023	(32) 27.08.2017
(32) 27.07.2018	(22) 23.01.2018	(33) United States of America
(33) China	(54) MICRO-LEVEL MONITORING, VISIBILITY AND CONTROL OF	(51) H04L 45/64
(51) H04L 41/0677	SHARED RESOURCES INTERNAL TO	H04L 45/645
	A PROCESSOR OF A HOST MACHINE	H04L 45/02
	FOR A VIRTUAL ENVIRONMENT	(11) EP3363169
	(73) Juniper Networks, Inc.	(21) EP15780874.2
	(72) ROY, Parantap	(47) 13.09.2023
	SINGH, Sumeet	(87) EP2015073819
	NEWHOUSE, Travis Gregory	20.04.2017
		(22) 14.10.2015

(54) CONTROL OF MULTI-LAYER COMMUNICATION NETWORK	(22) 29.02.2016	(54) TIME SHIFTED COMMUNICATIONS IN NETWORKED MESSAGING SYSTEMS
(73) Telefonaktiebolaget LM Ericsson (PUBL)	(54) EMAIL INTEGRATION WITH SHARED FOLDER BASED INTEGRATED WORKSPACES	(73) Microsoft Technology Licensing, LLC
(72) CECCARELLI, Daniele FIASCHI, Giovanni CAVIGLIA, Diego	(73) Dropbox, Inc.	(72) YATES, Thomas
(51) H04L 45/74	(72) BEAUSOLEIL, Sean	(31) 201615285101
H04L 69/08	PAN, Matteus	(32) 04.10.2016
H04L 9/40	GREZE, Jean-Denis	(33) United States of America
H04W 12/069	DEVINCENZI, Anthony	(51) H04L 61/4511
H04L 45/02	JOHNSON, Maxwell	H04L 61/00
H04W 40/22	DUBIE, Jack	H04L 41/04
H04W 40/24	DUNN, Colin	H04L 61/5014
H04W 40/32	(31) 201514726030	H04N 21/414
H04W 84/18	201562136871 P	(11) EP2765758
(11) EP3949292	(32) 29.05.2015	(21) EP14151069.3
(21) EP20718915.0	23.03.2015	(47) 13.09.2023
(47) 13.09.2023	(33) United States of America	(22) 14.01.2014
(87) US2020022949	United States of America	(54) Network address management and functional object discovery system
01.10.2020	(51) H04L 51/046	(73) Harman International Industries, Inc.
(22) 16.03.2020	H04L 51/10	(72) Pearson, Levi
(54) SYSTEMS AND METHODS FOR ESTABLISHING COMMUNICATION LINKS BETWEEN NETWORKS AND DEVICES WITH DIFFERENT ROUTING PROTOCOLS	H04L 65/1069	Olsen, David
(73) Landis+Gyr Technology, Inc.	H04M 3/42	Gunther, Craig
(72) HANLEY, James Patrick	(11) EP3725105	(31) 201313757401
WOLTER, Chad K.	(21) EP18889857.1	(32) 01.02.2013
JOHNSON, Bryce D.	(47) 13.09.2023	(33) United States of America
HARRIS, Lawrence	(87) US2018064962	(51) H04L 65/10
(31) 201916367587	20.06.2019	H04L 65/1016
(32) 28.03.2019	(22) 11.12.2018	H04L 65/1069
(33) United States of America	(54) METHODS AND SYSTEMS FOR MANAGEMENT OF MEDIA CONTENT ASSOCIATED WITH MESSAGE CONTEXT ON MOBILE COMPUTING DEVICES	H04W 4/90
(51) H04L 47/122	(73) VYNG, INC.	H04L 65/1104
H04L 45/02	(72) KATS, Paul	H04L 65/1073
H04L 45/42	CHERNICK, Jeffrey	(11) EP3989516
(11) EP3932022	GOLDSTON, Mark, Randall	(21) EP21204480.4
(21) EP20711474.5	HAEDIKE, Arthur, Herman, III	(47) 13.09.2023
(47) 13.09.2023	PIRAYESH, Sohrab	(22) 25.10.2021
(87) US2020019005	(31) 201762597309 P	(54) MULTIPLE NAMESPACES SUPPORT IN PRIORITY CALL IN IMS NETWORK
03.09.2020	(32) 11.12.2017	(73) Mavenir Systems, Inc.
(22) 20.02.2020	(33) United States of America	(72) BIANCONI, Rick
(54) SYSTEMS AND METHODS FOR ON-DEMAND FLOW-BASED POLICY ENFORCEMENT IN MULTI-CLOUD ENVIRONMENTS	(51) H04L 51/066	CHATTERJEE, Suprabhat
(73) Cisco Technology, Inc.	G06F 40/58	(31) 202021046659
(72) JANAKIRAMAN, Rajagopalan	H04L 51/046	202117505068
DESAI, Ronak, K.	(11) EP3572953	(32) 26.10.2020
GANAPATHY, Sivakumar	(21) EP17892757.0	19.10.2021
ASGHAR, Mohammed Javed	(47) 13.09.2023	(33) India
SULEMAN, Azeem	(87) JP2017001373	United States of America
VALJIBHAI, Patel Amitkumar	26.07.2018	(51) H04L 65/1069
(31) 201916289647	(22) 17.01.2017	H04L 65/403
(32) 28.02.2019	(54) MULTILINGUAL COMMUNICATION SYSTEM AND MULTILINGUAL COMMUNICATION PROVISION METHOD	H04L 65/611
(33) United States of America	(73) Loveland Co., Ltd.	H04L 67/10
(51) H04L 51/046	Miyasaka, Hatsumi	H04W 4/12
H04L 12/18	Miyasaka, Masumi	H04W 4/18
H04L 51/08	Kiso, Isao	G06F 9/48
H04L 51/216	(72) TANAKA, Hatsumi	(11) EP3146427
H04L 51/48	MIYASAKA, Masumi	(21) EP15728679.0
H04L 51/56	(51) H04L 51/214	(47) 13.09.2023
H04L 51/10	(11) EP3507948	(87) US2015031268
H04L 51/224	(21) EP17785113.6	26.11.2015
(11) EP3595243	(47) 13.09.2023	(22) 16.05.2015
(21) EP19195083.1	(87) US2017054644	(54) PEER-BASED DEVICE SET ACTIONS
(47) 13.09.2023	12.04.2018	(73) Microsoft Technology Licensing, LLC
	(22) 30.09.2017	(72) SCHLESINGER, Benny
		KASHTAN, Guy
		YAHALOM, Saar
		CHEN, Christina Summer
		AGUERA Y ARCAS, Blaise
		(31) 201414281468
		(32) 19.05.2014

(33) United States of America	(21) EP18836386.5	(32) 22.01.2021
(51) H04L 65/1073	(47) 13.09.2023	(33) United States of America
(11) EP3881512	(87) IB2018001488	(51) H04L 67/1097
(21) EP19786415.0	04.06.2020	G06F 16/16
(47) 13.09.2023	(22) 28.11.2018	G06F 16/93
(87) US2019052684	(54) METHOD AND SYSTEM FOR AUDIO-	(11) EP3869769
09.07.2020	VISUAL LIVE CONTENT DELIVERY	(21) EP20382123.6
(22) 24.09.2019	(73) Broadpeak	(47) 13.09.2023
(54) CARRIER INTEGRATION THROUGH	(72) BÂLÉ, Sophie	(22) 20.02.2020
USER NETWORK INTERFACE PROXY	BREBION, Rémy	(54) SMART REPOSITORY BASED ON
(73) Google LLC	RENARD, Nicolas	RELATIONAL METADATA
(72) TULI, Amol	MARTIN, Jean-François	(73) The Boeing Company
GONZALEZ, Jonathan	BOUTEAU, Pierre-Olivier	(72) Torres Gamiz, Alejandro
RAY, Punyabrata		Mendo Hernandez, Juan Carlos
KALAPATAPU, Dutt	(51) H04L 65/611	
YANG, Ji	H04L 65/75	(51) H04L 67/12
BOMMAKANTI, Sathesh	H04L 65/60	(11) EP4059208
(31) 201862786919 P	H04L 67/568	(21) EP20819868.9
(32) 31.12.2018	H04W 4/23	(47) 13.09.2023
(33) United States of America	(11) EP3847831	(87) IB2020060608
(51) H04L 65/1083	(21) EP19873446.9	20.05.2021
H04L 65/1093	(47) 13.09.2023	(22) 11.11.2020
H04L 65/61	(87) US2019056597	(54) AUTOMOTIVE NETWORK WITH
H04L 65/613	23.04.2020	CENTRALIZED STORAGE
(11) EP3832977	(22) 16.10.2019	(73) Marvell Asia Pte, Ltd.
(21) EP21151653.9	(54) CACHE AND MULTICAST	(72) YASAY, Donna
(47) 13.09.2023	TECHNIQUES TO REDUCE	LAM, Johnny
(22) 01.07.2013	BANDWIDTH UTILIZATION	BAILEY, Hubert
(54) PLAYBACK CONTROL OF A MEDIA	(73) T-Mobile USA, Inc.	MIZRAHI, Noam
PRESENTATION USING A "RADIO"	(72) BONGAARTS, Paul	(31) 201962934436 P
CONTROL INPUT	DRAKE, Aaron	(32) 12.11.2019
(73) Spotify AB	(31) 201916653908	(33) United States of America
(72) GARMARK, Sten	201862746463 P	(51) H04L 67/12
RÖÖS, Karl Magnus	(32) 15.10.2019	B66B 1/34
ÖMAN, Andreas	16.10.2018	H04L 61/4511
BENGTSSON, Per Gunnar Joachim	(33) United States of America	H04L 67/51
VESTERLUND, Marcus Per	United States of America	H04L 41/0806
(31) 201261727649 P	(51) H04L 67/10	H04L 41/50
201261666732 P	(11) EP3817338	H04L 61/5014
(32) 16.11.2012	(21) EP21163436.5	(11) EP3868079
29.06.2012	(47) 13.09.2023	(21) EP18792961.7
(33) United States of America	(22) 18.03.2021	(47) 13.09.2023
United States of America	(54) METHOD AND APPARATUS	(87) FI2018050745
(51) H04L 65/403	FOR ACQUIRING RPC MEMBER	23.04.2020
H04L 67/14	INFORMATION, ELECTRONIC DEVICE	(22) 16.10.2018
H04W 4/70	AND STORAGE MEDIUM	(54) DATA NETWORK SERVICES
(11) EP3661160	(73) Beijing Baidu Netcom Science and	DISCOVERY IN A TRANSPORTATION
(21) EP20153712.3	Technology Co., Ltd.	INFRASTRUCTURE CONTROL
(47) 13.09.2023	(72) HAO, Yu	NETWORK
(22) 30.04.2010	MA, Fei	(73) KONE Corporation
(54) SYSTEM AND METHOD FOR	(31) 202011014305	(72) KOSKINEN, Santtu
IMPLEMENTING MEDIA AND MEDIA	(32) 24.09.2020	PIIRONEN, Mikko
TRANSFER BETWEEN DEVICES	(33) China	RANTAMÄKI, Anssi
(73) BlackBerry Limited	(51) H04L 67/1001	HEISKANEN, Mikko
(72) Allen, Andrew	H04L 67/1008	KOIVISTO, Ari
Bakker, Jan Hendrik Lucas	H04L 67/101	MATTILA, Mikko
Buckley, Adrian	(11) EP4033736	
Cormier, Jean-Phillipe	(21) EP22152437.4	(51) H04L 67/12
Kim, Young Ae	(47) 13.09.2023	H04W 4/80
(31) 17540309 P	(22) 20.01.2022	A24F 40/53
(32) 04.05.2009	(54) DISTRIBUTED MACHINE-LEARNING	A24F 40/65
(33) United States of America	RESOURCE SHARING AND REQUEST	H04L 9/40
(51) H04L 65/611	ROUTING	H04W 12/72
H04L 65/612	(73) Avago Technologies International Sales	(11) EP3759890
H04L 65/10	Pte. Limited	(21) EP19706429.8
H04N 21/6405	(72) KLEIN, Philippe	(47) 13.09.2023
H04N 21/6408	LI, Yong	(87) EP2019053510
(11) EP3888316	CHEN, Xuemin	29.08.2019
	(31) 202117155780	(22) 13.02.2019

(54) SYSTEM FOR MANAGING SMOKING SUBSTITUTE DEVICES AND ASSOCIATED METHOD	(21) EP20785094.2 (47) 13.09.2023 (87) CN2020082929 08.10.2020	H04L 69/18 H04L 69/24 H04W 76/10 H04W 16/14 H04W 84/12 H04W 88/06 H04W 16/10
(73) Imperial Tobacco Limited (72) FARD, Daniel TALBOT, Oliver	(22) 02.04.2020 (54) METHOD AND APPARATUS FOR SERVICE DISCOVERY	
(31) 201815356 201808611 201803026	(73) TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)	(11) EP3709594 (21) EP19305299.0
(32) 20.09.2018 25.05.2018 26.02.2018	(72) LI, Peng WANG, Cheng ZHANG, Xiaowei	(47) 13.09.2023 (22) 13.03.2019 (54) WIRELESS VEHICULAR COMMUNICATIONS WITH CHANNEL ALLOCATION
(33) United Kingdom United Kingdom United Kingdom	(31) PCT/CN2019/081035 (32) 02.04.2019 (33) World Intellectual Property Office (WIPO)	(73) NXP B.V.
(51) H04L 67/14 H04L 61/4511	(51) H04L 67/52 (11) EP3322149 (21) EP17162247.5	(72) MARTINEZ, Vincent Pierre FISCHER, Michael Andrew FILIPPI, Alessio
(11) EP3827577 (21) EP19758835.3 (47) 13.09.2023	(22) 22.03.2017 (54) CUSTOMIZED MAP GENERATION WITH REAL TIME MESSAGES AND LOCATIONS FROM CONCURRENT USERS	(51) H04L 69/18 H04L 69/12 (11) EP3879792 (21) EP20162479.8 (47) 13.09.2023 (22) 11.03.2020
(87) US2019043037 30.01.2020 (22) 23.07.2019 (54) SYSTEM AND METHOD FOR INTELLIGENTLY MANAGING SESSIONS IN A MOBILE NETWORK	(73) Tata Consultancy Services Limited (72) KUMAR, Prakash (31) 201621038395 (32) 10.11.2016 (33) India	(54) BUILDING TECHNOLOGY DEVICE (73) Tridonic GmbH & Co. KG (72) Lochmann, Frank Simma, Lukas
(73) Microsoft Technology Licensing, LLC (72) VELDANDA, Narsi RAGHAVAN, Anupama	(31) 201862702093 P (32) 23.07.2018 (33) United States of America	(51) H04M 1/02 G06F 1/16 (11) EP3832993 (21) EP20211359.3 (47) 13.09.2023 (22) 02.12.2020 (54) HANDHELD ELECTRONIC DEVICE (73) Apple Inc. (72) BAKER, John J. BATES, Eric W. BROWNING, Lucy E. BURKE, Kodiak D. BUSTLE, Benjamin S. CANALES, Trent CATER, Tyler B. COHEN, Sawyer I. DINH, Richard Hung Minh FIRKA, Michael W. FROESE, Kevin M. HAM, Jun Sik HILL, Matthew D. JAY, Hugh J. KALLMAN, Benjamin J. LEUTHEUSER, Paul U. MILLER, Matthew W. MONDRY, Michael K. PARR, Donald J. RAO, Matthew P. SCHMITT, Griffin L. SHUM, Allegra XYDIS, Christopher R. ZHANG, Luman ZHANG, Yaocheng ZHANG, Zhipeng ZHAO, Xiao Ying POPE, Benjamin J.
(31) 201862702093 P (32) 23.07.2018 (33) United States of America	(51) H04L 67/60 H04L 67/62 (11) EP3879794 (21) EP21152275.0 (47) 13.09.2023 (22) 19.01.2021 (54) EXECUTION CONTROL METHOD, INFORMATION PROCESSING APPARATUS, AND EXECUTION CONTROL PROGRAM	
(51) H04L 67/50 (11) EP3874724 (21) EP19813675.6 (47) 13.09.2023 (87) US2019058352 07.05.2020 (22) 28.10.2019 (54) TRANSACTION-BASED EVENT TRACKING MECHANISM	(73) FUJITSU LIMITED (72) Onishi, Takafumi Kanemasa, Yasuhiko (31) 2020040068 (32) 09.03.2020 (33) Japan	
(73) Cisco Technology, Inc. (72) GAONKAR, Kedar, K. PAZHANNUR, Rajesh NUKALA, Aruna	(31) 2020040068 (32) 09.03.2020 (33) Japan	
(31) 201816177147 (32) 31.10.2018 (33) United States of America	(51) H04L 67/63 H04L 69/22 H04L 67/1008 H04L 67/1021 (11) EP3968607 (21) EP20909561.1 (47) 13.09.2023 (87) CN2020117617 08.07.2021 (22) 25.09.2020 (54) SERVICE INVOCATION METHODS (73) China Unionpay Co., Ltd (72) JIANG, Bo ZHOU, Jien NIU, Tianyun CHENG, Chao WU, Fengke XU, Zhengfeng SHEN, Guanghui	
(51) H04L 67/51 H04L 67/55 (11) EP3788767 (21) EP18917293.5 (47) 13.09.2023 (87) CN2018085401 07.11.2019 (22) 03.05.2018 (54) SCALABLE REAL-TIME DUPLEX COMMUNICATIONS SERVICE (73) Microsoft Technology Licensing, LLC (72) WANG, Yawei ZHAO, Le CHEN, Ken ZHAO, Xiaoyan	(31) 201911413857 (32) 31.12.2019 (33) China	
(51) H04L 67/51 H04W 80/00 H04W 24/02 H04W 48/16 (11) EP3949354	(51) H04L 69/14	(31) 202017068432 202063047760 P 201962946920 P 201962943199 P

(32) 12.10.2020	BELL, Peter	United States of America
02.07.2020	MEDLEN, Nicholas	United States of America
11.12.2019	(31) 16162719	(51) H04N 1/60
03.12.2019	(32) 29.03.2016	H04N 9/64
(33) United States of America	(33) European Patent Office (EPO)	(11) EP3207694
United States of America	(51) H04M 3/42	(21) EP15784603.1
United States of America	H04M 3/00	(47) 13.09.2023
United States of America	H04M 11/00	(87) EP2015073881
(51) H04M 1/02	H04W 88/16	21.04.2016
G06F 21/32	H04W 4/20	(22) 15.10.2015
G06V 40/16	H04W 8/18	(54) METHOD FOR OPERATING A DISPLAY
G06F 9/451	H04W 12/08	DEVICE, ARRANGEMENT, AND
H04M 1/72463	(11) EP3588923	MOTOR VEHICLE
(11) EP4002814	(21) EP17903174.5	(73) Continental Automotive Technologies
(21) EP20847498.1	(47) 13.09.2023	GmbH
(47) 13.09.2023	(87) JP2017037566	(72) LAHR, Torsten
(87) CN2020105420	04.10.2018	WEBER, Markus
04.02.2021	(22) 17.10.2017	BRANDL, Tobias
(22) 29.07.2020	(54) CONNECTION CONTROL SYSTEM	(31) 102014221057
(54) PRIVACY PROTECTION METHOD	AND CONNECTION CONTROL	(32) 16.10.2014
FOR ELECTRONIC DEVICE, AND	METHOD	(33) Germany
ELECTRONIC DEVICE	(73) NTT DOCOMO, INC.	(51) H04N 5/60
(73) Huawei Technologies Co., Ltd.	(72) ISHIDA, Kuniomi	H04N 21/439
(72) CUI, Xiaoying	NAKAO, Naoyuki	H04N 21/458
LUO, Junqing	KIKKAWA, Miho	H04N 21/81
ZHUANG, Zhishan	(31) 2017065871	G06F 3/16
WANG, Xiaomei	(32) 29.03.2017	H03G 3/30
QIN, Chuan	(33) Japan	(11) EP3881556
CHEN, Shaojun	(51) H04N 1/60	(21) EP19885135.4
(31) 201910888137	(11) EP3616394	(47) 13.09.2023
201910696931	(21) EP18704732.9	(87) US2019061632
(32) 19.09.2019	(47) 13.09.2023	22.05.2020
30.07.2019	(87) US2018015591	(22) 15.11.2019
(33) China	13.12.2018	(54) ADJUSTMENT OF LOUDNESS LEVEL
China	(22) 26.01.2018	DURING MEDIA REPLACEMENT
(51) H04M 1/03	(54) USER INTERFACE CAMERA EFFECTS	EVENT
H04M 1/02	(73) Apple Inc.	(73) Roku, Inc.
H04R 9/08	(72) DYE, Alan, C.	(72) CREMER, Markus, K.
H04R 9/06	IVE, Jonathan, P.	MERCHANT, Shashank
(11) EP4024834	SOUZA DOS SANTOS, Andre	COOVER, Robert
(21) EP20858979.6	BEHZADI, Arian	HODGES, Todd, J.
(47) 13.09.2023	MANZARI, Johnnie Behkish	MORRIS, Joshua, Ernest
(87) CN2020111383	SORRENTINO, Billy, III	(31) 201916684514
04.03.2021	HERMANS, Caroline	201962909676 P
(22) 26.08.2020	IRANI, Cyrus, Daniel	201962861474 P
(54) ELECTRONIC DEVICE	PRESTON, Daniel, Trent	201862768596 P
(73) Vivo Mobile Communication Co., Ltd.	HARRIS, Elliott	(32) 14.11.2019
(72) YANG, Pengbo	KIM, Emilie	02.10.2019
WANG, Xiaolei	CAO, Frederic	14.06.2019
(31) 201910814969	JOHNSON, Garrett	16.11.2018
(32) 30.08.2019	PAUL, Grant	(33) United States of America
(33) China	BRASKET, Jeffrey, A.	United States of America
(51) H04M 3/30	MALIA, Joseph, A.	United States of America
H04M 11/06	BEREZA, Marek	United States of America
(11) EP3437309	PIVONKA, Pavel	(51) H04N 5/77
(21) EP17713041.6	(31) PA201770719	H04N 7/18
(47) 13.09.2023	PA201770563	(11) EP3706406
(87) EP2017057451	201715728147	(21) EP18890453.6
05.10.2017	201762556414 P	(47) 13.09.2023
(22) 29.03.2017	201762514947 P	(87) KR2018016028
(54) METHOD AND APPARATUS	(32) 22.09.2017	27.06.2019
FOR OPERATING A	10.07.2017	(22) 17.12.2018
TELECOMMUNICATIONS ACCESS	09.10.2017	(54) ELECTRONIC DEVICE AND METHOD
NETWORK	09.09.2017	FOR OPERATING SAME
(73) British Telecommunications public limited	04.06.2017	(73) Samsung Electronics Co., Ltd.
company	(33) Denmark	(72) CHOI, Jaehyuk
(72) LINNEY, Trevor	Denmark	(31) 20170174429
HORSLEY, Ian	United States of America	(32) 18.12.2017

<p>(33) Korea (Republic)                  (51) H04N 7/18                      H04M 1/02                  (11) EP3445046                  (21) EP18172481.6                  (47) 13.09.2023                  (22) 15.05.2018                  (54) DOORBELL CAMERA                  (73) Google LLC                  (72) JEONG, Hae rim                      ARAVAMUDHAN, Rengarajan                      GRILLO, Jacobi                      DIXON, Michael                      LIEN, Yu-An                      KIM, Minjung                      BERUBE, Etienne                      JACOB, Rochus                      CONNER, Brian                      MULLINS, Scott                  (31) 201715710783                      201762545401 P                  (32) 20.09.2017                      14.08.2017                  (33) United States of America                      United States of America</p> <hr/> <p>(51) H04N 13/261                      H04N 13/366                      H04N 13/395                      G02B 27/01                  (11) EP3769517                  (21) EP19715640.9                  (47) 13.09.2023                  (87) US2019023149                      26.09.2019                  (22) 20.03.2019                  (54) MULTIFOCAL PLANE BASED METHOD                      TO PRODUCE STEREOSCOPIC                      VIEWPOINTS IN A DIBR SYSTEM                      (MFP-DIBR)                  (73) InterDigital VC Holdings, Inc.                  (72) VALLI, Seppo T.                      SILTANEN, Pekka K.                  (31) 201862647568 P                  (32) 23.03.2018                  (33) United States of America</p> <hr/> <p>(51) H04N 19/117                  (11) EP4059215                  (21) EP20821509.5                  (47) 13.09.2023                  (87) US2020060597                      20.05.2021                  (22) 13.11.2020                  (54) CROSS-COMPONENT ADAPTIVE                      LOOP FILTER IN VIDEO CODING                  (73) QUALCOMM INCORPORATED                  (72) HU, Nan                      SEREGIN, Vadim                      HSIEH, Cheng-Teh                      KARCZEWICZ, Marta                  (31) 202017096740                      202062985684 P                      201962936046 P                  (32) 12.11.2020                      05.03.2020                      15.11.2019                  (33) United States of America                      United States of America                      United States of America</p> <hr/>	<p>(51) H04N 19/124                      H04N 19/186                      H04N 19/176                      H04N 19/196                  (11) EP3941052                  (21) EP21195707.1                  (47) 13.09.2023                  (22) 05.03.2019                  (54) AN IMAGE CODING APPARATUS                      AND METHOD THEREOF BASED                      ON A QUANTIZATION PARAMETER                      DERIVATION                  (73) LG Electronics Inc.                  (72) KIM, Seunghwan                      LIM, Jaehyun                  (31) 201862651243 P                  (32) 01.04.2018                  (33) United States of America</p> <hr/> <p>(51) H04N 19/13                      H04N 19/18                      H04N 19/70                      H04N 19/176                      H04N 19/593                      H04N 19/91                  (11) EP3910947                  (21) EP21181701.0                  (47) 13.09.2023                  (22) 26.03.2013                  (54) IMAGE DECODING DEVICE, IMAGE                      DECODING METHOD, AND IMAGE                      DECODING PROGRAM                  (73) JVC KENWOOD Corporation                  (72) KUMAKURA, Toru                      FUKUSHIMA, Shigeru                  (31) 2013062961                      2013062962                      2012069719                      2012069718                  (32) 25.03.2013                      25.03.2013                      26.03.2012                      26.03.2012                  (33) Japan                      Japan                      Japan                      Japan</p> <hr/> <p>(51) H04N 19/159                      H04N 19/86                      H04N 19/117                      H04N 19/176                      H04N 19/82                      H04N 19/136                  (11) EP4024864                  (21) EP22153252.6                  (47) 13.09.2023                  (22) 05.11.2012                  (54) METHOD AND APPARATUS FOR                      ENCODING/DECODING VIDEO                      INFORMATION                  (73) LG Electronics, Inc.                  (72) PARK, Seungwook                      LIM, Jaehyung                      JEON, Yongjoon                      KIM, Chulkeun                      KIM, Jungsun                      PARK, Naeri                      HENDRY, Hendry                      JEON, Byeongmoon</p>	<p>PARK, Joonyoung                  (31) 201161569291 P                      201161558398 P                      201161555495 P                  (32) 12.12.2011                      10.11.2011                      04.11.2011                  (33) United States of America                      United States of America                      United States of America</p> <hr/> <p>(51) H04N 19/46                      H04N 19/51                      H04N 19/513                      H04N 19/463                      H04N 19/91                  (11) EP3809703                  (21) EP20205284.1                  (47) 13.09.2023                  (22) 18.06.2009                  (54) VIDEO ENCODING                  (73) Kabushiki Kaisha Toshiba                  (72) ASAKA, Saori                      CHUJOH, Takeshi                      TANIZAWA, Akiyuki                      YASUDA, Goki                      WADA, Naofumi                      WATANABE, Takashi</p> <hr/> <p>(51) H04N 19/467                      H04N 19/48                      H04N 19/33                      H04N 19/60                      H04N 19/18                  (11) EP4049452                  (21) EP20800273.3                  (47) 13.09.2023                  (87) GB2020052693                      29.04.2021                  (22) 23.10.2020                  (54) EMBEDDING DATA WITHIN                      TRANSFORMED COEFFICIENTS                      USING BIT PARTITIONING                      OPERATIONS                  (73) V-Nova International Limited                  (72) CICCARELLI, Lorenzo                      FERRARA, Simone                      MEARDI, Guido                  (31) 202001408                      202000430                      201915553                      202062984261 P                  (32) 31.01.2020                      12.01.2020                      25.10.2019                      02.03.2020                  (33) United Kingdom                      United Kingdom                      United Kingdom                      United States of America</p> <hr/> <p>(51) H04N 19/52                      H04N 19/139                      H04N 19/147                      H04N 19/11                      H04N 19/109                      H04N 19/19                      H04N 19/573                  (11) EP3225029                  (21) EP15804907.2                  (47) 13.09.2023</p>
--	--	--

(87) FR2015053148 02.06.2016	KARCZEWICZ, Marta	(54) NON-DETERMINISTIC TIME SYSTEMS AND METHODS
(22) 20.11.2015	JOSHI, Rajan Laxman	(73) Guardtime SA
(54) IMAGE ENCODING METHOD AND EQUIPMENT FOR IMPLEMENTING THE METHOD	SOLE ROJALS, Joel	(72) GAULT, Michael
(73) ATEME	SEREGIN, Vadim	TRUU, Ahto
(72) AGYO, Zineb	(31) 201514818134	BULDAS, Ahto
MONNIER, Mathieu	201462086617 P	RUUBEL, Martin
THIESSE, Jean-Marc	201462083066 P	PEARCE, Jeffrey
LARBIER, Pierre	201462065519 P	(31) 201314094252
(31) 1461367	201462040864 P	(32) 02.12.2013
(32) 24.11.2014	201462039217 P	(33) United States of America
(33) France	(32) 04.08.2015	<hr/>
(51) H04N 19/53	02.12.2014	(51) H04N 21/454
H04N 19/513	21.11.2014	H04N 21/4545
H04N 19/129	17.10.2014	H04N 5/445
H04N 19/105	22.08.2014	(11) EP3545685
H04N 19/176	19.08.2014	(21) EP17883839.7
H04N 19/52	(33) United States of America	(47) 13.09.2023
H04N 19/70	United States of America	(87) KR2017012974
(11) EP3780617	United States of America	28.06.2018
(21) EP19793735.2	United States of America	(22) 16.11.2017
(47) 13.09.2023	United States of America	(54) METHOD AND APPARATUS FOR FILTERING VIDEO
(87) KR2019004957	United States of America	(73) Samsung Electronics Co., Ltd.
31.10.2019	(51) H04N 19/91	(72) YUN, Ji-hwan
(22) 24.04.2019	(11) EP3427480	KIM, Min-seo
(54) METHOD AND APPARATUS FOR INTER PREDICTION IN VIDEO CODING SYSTEM	(21) EP17711947.6	JUNG, Jae-yun
(73) LG Electronics Inc.	(47) 13.09.2023	(31) 20170131643
(72) LEE, Jaeho	(87) US2017020897	20160173624
(31) 201862662175 P	14.09.2017	(32) 11.10.2017
(32) 24.04.2018	(22) 06.03.2017	19.12.2016
(33) United States of America	(54) APPARATUS AND METHOD FOR VECTOR-BASED ENTROPY CODING FOR DISPLAY STREAM COMPRESSION	(33) Korea (Republic) Korea (Republic)
(51) H04N 19/593	(73) Qualcomm Incorporated	<hr/>
(11) EP3989578	(72) THIRUMALAI, Vijayaraghavan	(51) H04N 21/4728
(21) EP20827185.8	JACOBSON, Natan Haim	H04N 21/431
(47) 13.09.2023	JOSHI, Rajan Laxman	(11) EP3793205
(87) JP2020022485	(31) 201715449755	(21) EP20200471.9
24.12.2020	201662415999 P	(47) 13.09.2023
(22) 08.06.2020	201662305380 P	(22) 18.09.2017
(54) IMAGE PROCESSING DEVICE, AND IMAGE PROCESSING METHOD	(32) 03.03.2017	(54) CONTENT BASED STREAM SPLITTING OF VIDEO DATA
(73) Sony Group Corporation	01.11.2016	(73) Dolby Laboratories Licensing Corporation
(72) KONDO, Kenji	08.03.2016	(72) Atluru, Chaitanya
(31) 201962866281 P	(33) United States of America	NINAN, Ajit
201962863664 P	United States of America	(31) 201662399574 P
(32) 25.06.2019	United States of America	16190623
19.06.2019	(51) H04N 21/2343	(32) 26.09.2016
(33) United States of America	H04N 7/14	26.09.2016
United States of America	H04N 21/431	(33) United States of America
(51) H04N 19/593	H04N 21/4788	European Patent Office (EPO)
H04N 19/182	(11) EP3437321	<hr/>
H04N 19/27	(21) EP16910688.7	(51) H04N 21/8352
H04N 19/93	(47) 13.09.2023	H04N 21/254
(11) EP3183881	(87) US2016043992	(11) EP3520429
(21) EP15753540.2	01.02.2018	(21) EP17717264.0
(47) 13.09.2023	(22) 26.07.2016	(47) 13.09.2023
(87) US2015043746	(54) TELECONFERENCE TRANSMISSION	(87) US2017022256
25.02.2016	(73) Hewlett-Packard Development Company, L.P.	20.09.2018
(22) 05.08.2015	(72) ALLEN, Will	(2) 14.03.2017
(54) METHODS INCORPORATING EXTENSIONS TO COPY-ABOVE MODE FOR PALETTE MODE CODING	MERKEL, Harold	(54) VERIFYING THE RENDERING OF VIDEO CONTENT AT CLIENT DEVICES USING TRUSTED PLATFORM MODULES
(73) QUALCOMM Incorporated	(51) H04N 21/235	(73) Google LLC
(72) PU, Wei	H04N 21/236	(72) WOODMAN, Oliver
ZOU, Feng	H04L 9/32	LEWIS, Andrew
	(11) EP3570549	<hr/>
	(21) EP19185416.5	(51) H04N 21/84
	(47) 13.09.2023	G06F 16/901
	(22) 02.12.2014	H04N 21/858
		(11) EP3900380



(21) EP19845645.1	(54) IMAGE-CAPTURE PLAN	KOHASHI, Takashi
(47) 13.09.2023	PRESENTATION APPARATUS AND	(31) 2016127686
(87) US2019068157	METHOD	(32) 28.06.2016
25.06.2020	(73) FUJIFILM Corporation	(33) Japan
(22) 20.12.2019	(72) HORITA, Shuhei	(51) H04N 25/59
(54) PRELOADED CONTENT SELECTION	(31) 2018126941	H04N 25/621
GRAPH FOR RAPID RETRIEVAL	(32) 03.07.2018	H04N 25/771
(73) Home Box Office, Inc.	(33) Japan	(11) EP3871407
(72) LUTZ, Jonathan David	(51) H04N 23/617	(21) EP19875457.4
GAY, Allen Arthur	H04N 23/63	(47) 13.09.2023
CARNEY, Dylan	(11) EP3210371	(87) US2019055625
(31) 201916720822	(21) EP15853005.5	30.04.2020
201862783263 P	(47) 13.09.2023	(22) 10.10.2019
(32) 19.12.2019	(87) AU2015050660	(54) ULTRA-HIGH DYNAMIC RANGE CMOS
21.12.2018	28.04.2016	SENSOR
(33) United States of America	(22) 26.10.2015	(73) BAE Systems Imaging Solutions Inc.
United States of America	(54) CAMERA APPLICATION	(72) DO, Hung, T.
(51) H04N 23/45	(73) Beezbutt PTY Limited	GONG, Chenguang
H04N 23/62	(72) WRIGHT, Paul	LIM, Paul, G.
H04N 23/63	MONTOYA, Catherine	MAGNANI, Alberto, M.
H04N 23/80	PHYU, May Hnin	(31) 201816169895
H04N 5/265	HARYONO, Erick	(32) 24.10.2018
(11) EP3780577	NAM, Jeong Kwang	(33) United States of America
(21) EP19780822.3	ZEAITER, Charbel Anthony	(51) H04Q 1/02
(47) 13.09.2023	(31) 2014904256	H04Q 1/14
(87) CN2019081459	(32) 24.10.2014	(11) EP3707915
10.10.2019	(33) Australia	(21) EP18875839.5
(22) 04.04.2019	(51) H04N 23/68	(47) 13.09.2023
(54) PHOTOGRAPHY METHOD AND	(11) EP3582487	(87) US2018059780
MOBILE TERMINAL	(21) EP19173701.4	16.05.2019
(73) Vivo Mobile Communication Co., Ltd.	(47) 13.09.2023	(22) 08.11.2018
(72) WEI, Dong	(22) 10.05.2019	(54) TELECOMMUNICATIONS PANEL WITH
(31) 201810295832	(54) IMAGE STABILISATION	GROUNDING WIRE
(32) 04.04.2018	(73) GUANGDONG OPPO MOBILE	(73) Commscope Technologies LLC
(33) China	TELECOMMUNICATIONS CORP., LTD.	(72) SHIH, Yi Teh
(51) H04N 23/60	(72) TAN, Guohui	(31) 201762584543 P
H04N 23/61	(31) 201810623844	(32) 10.11.2017
H04N 23/611	(32) 15.06.2018	(33) United States of America
H04N 23/63	(33) China	(51) H04Q 1/14
H04N 23/80	(51) H04N 23/68	(11) EP3850865
G06V 10/764	H04N 23/65	(21) EP19758694.4
G06V 10/82	H04N 23/695	(47) 13.09.2023
G06V 20/10	(11) EP3490243	(87) EP2019072406
(11) EP3598736	(21) EP18203044.5	19.03.2020
(21) EP19184943.9	(47) 13.09.2023	(22) 21.08.2019
(47) 13.09.2023	(22) 29.10.2018	(54) ADAPTOR
(22) 08.07.2019	(54) IMAGING APPARATUS AND CONTROL	(73) British Telecommunications public limited
(54) METHOD AND APPARATUS FOR	METHOD	company
PROCESSING IMAGE	(73) CANON KABUSHIKI KAISHA	(72) BOTTOMLEY, Michael
(73) GUANGDONG OPPO MOBILE	(72) MARUHASHI, Naoka	(31) 18193869
TELECOMMUNICATIONS CORP., LTD.	(31) 2017224597	(32) 11.09.2018
(72) LIU, Yaoyong	(32) 22.11.2017	(33) European Patent Office (EPO)
(31) 201810777660	(33) Japan	(51) H04R 1/08
(32) 16.07.2018	(51) H04N 23/80	(11) EP4030777
(33) China	(11) EP3477938	(21) EP21214182.4
(51) H04N 23/60	(21) EP17819862.8	(47) 13.09.2023
H04N 23/63	(47) 13.09.2023	(22) 13.12.2021
H04N 23/698	(87) JP2017021948	(54) MICROPHONE
H04N 5/60	04.01.2018	(73) Audio-Technica Corporation
H04N 5/63	(22) 14.06.2017	(72) YOSHINO, Satoshi
(11) EP3820139	(54) IMAGING DEVICE, IMAGING METHOD,	(31) 2021004698
(21) EP19830411.5	AND PROGRAM	(32) 15.01.2021
(47) 13.09.2023	(73) Sony Group Corporation	(33) Japan
(87) JP2019025340	(72) SHIMAUCHI, Kazuhiro	(51) H04R 1/10
09.01.2020	SEKI, Kenzaburo	(11) EP3881557
(22) 26.06.2019	SHIMODA, Tetsuya	(21) EP19836201.4
	KUWAZOE, Yasuyoshi	(47) 13.09.2023
	NAKAO, Yuta	

(87) US2019060969 22.05.2020	(31) 2005773	(11) EP3854111
(22) 12.11.2019	(32) 02.06.2020	(21) EP19779672.5
(54) OPEN EAR AUDIO DEVICE WITH BONE CONDUCTION SPEAKER	(33) France	(47) 13.09.2023
(73) Bose Corporation	(51) H04R 7/04	(87) US2019051437
(72) PATIL, Naganagouda	H04R 7/18	26.03.2020
SMITH, Matthew Christopher	H04R 7/20	(22) 17.09.2019
BRUSER, Ilissa Brooke	H04R 3/04	(54) HEARING DEVICE INCLUDING A SENSOR AND HEARING SYSTEM INCLUDING SAME
MUKHOPADHAYA, Maya Antara	H04R 9/06	(73) Starkey Laboratories, Inc.
(31) 201816188246	(11) EP3729825	(72) HIGGINS, Sidney, A.
(32) 12.11.2018	(21) EP19818341.0	OLSON, Kyle
(33) United States of America	(47) 13.09.2023	(31) 201916571837
(51) H04R 1/10	(87) US2019061317	201862732079 P
A61B 5/00	03.09.2020	(32) 16.09.2019
(11) EP3883260	(22) 13.11.2019	17.09.2018
(21) EP20163364.1	(54) MODAL FREQUENCY SHIFTING FOR LOUDSPEAKER DEVICES	(33) United States of America United States of America
(47) 13.09.2023	(73) Google LLC	
(22) 16.03.2020	(72) STARNES, Mark William	
(54) HEARING DEVICE FOR PROVIDING PHYSIOLOGICAL INFORMATION, AND METHOD OF ITS OPERATION	PHILLIS, Andrew	(51) H04W 4/00
(73) Sonova AG	(31) 201916289132	H04W 4/30
(72) ROECK, Hans-Ueli	(32) 28.02.2019	G01S 5/18
THIELEN, Anne	(33) United States of America	H04W 4/021
(51) H04R 1/10	(51) H04R 19/00	G01S 5/10
H04R 5/033	H04R 7/26	G06F 3/14
(11) EP3896995	H04R 19/04	H04W 64/00
(21) EP20170124.0	(11) EP4054206	(11) EP3545696
(47) 13.09.2023	(21) EP21160096.0	(21) EP17884663.0
(22) 17.04.2020	(47) 13.09.2023	(47) 13.09.2023
(54) PROVIDING SPATIAL AUDIO SIGNALS	(22) 01.03.2021	(87) CA2017051555
(73) Nokia Technologies Oy	(54) MEMS DEVICE WITH A TUNED MASS DAMPING STRUCTURE	28.06.2018
(72) LAAKSONEN, Lasse Juhani	(73) Infineon Technologies AG	(22) 20.12.2017
LEPPÄNEN, Jussi Artturi	(72) ONARAN, Abidin Gueclue	(54) SYSTEMS AND METHODS FOR DISPLAYING IMAGES ACROSS MULTIPLE DEVICES
LEHTINIEMI, Arto Juhani	FUELDNER, Marc	(73) APPIX PROJECT INC.
VILERMO, Miikka Tapani	STRAEUSSNIGG, Dietmar	(72) WYLIE, Aaron James
(51) H04R 3/00	(51) H04R 25/00	WYLIE, Benjamin Joseph
(11) EP2664160	(11) EP3826328	TUMMOND, Jacob
(21) EP12703635.8	(21) EP20206430.9	BORNN, Luke Carey
(47) 13.09.2023	(47) 13.09.2023	(31) 201662436652 P
(87) US2012021340	(22) 09.11.2020	(32) 20.12.2016
19.07.2012	(54) SYSTEMS AND METHODS FOR ADJUSTING A GAIN LIMIT OF A HEARING DEVICE	(33) United States of America
(22) 13.01.2012	(73) Sonova AG	(51) H04W 4/02
(54) VARIABLE BEAMFORMING WITH A MOBILE PLATFORM	(72) Sigwanz, Ullrich	H04W 4/40
(73) Qualcomm Incorporated	(31) 201916688808	(11) EP4000283
(72) FORUTANPOUR, Babak	(32) 19.11.2019	(21) EP20750092.7
SCHEVCIW, Andre Gustavo P.	(33) United States of America	(47) 13.09.2023
VISSER, Erik	(51) H04R 25/00	(87) US2020041766
MOMEYER, Brian	G10L 25/78	28.01.2021
(31) 201113006303	(11) EP3104627	(22) 13.07.2020
(32) 13.01.2011	(21) EP16170741.9	(54) PROVIDING A NETWORK LOCATION SERVICE WHEN A USER EQUIPMENT IS NOT SERVED BY A THIRD GENERATION PARTNERSHIP PROJECT (3GPP) RADIO
(33) United States of America	(47) 13.09.2023	(73) Cisco Technology, Inc.
(51) H04R 5/04	(22) 20.05.2016	(72) SRIVASTAVA, Vimal
H04S 1/00	(54) METHOD FOR IMPROVING A RECORDING SIGNAL IN A HEARING SYSTEM	GUNDAVELLI, Srinath
H04R 3/12	(73) Sivantos Pte. Ltd.	(31) 201916516737
(11) EP3920552	(72) KAMKAR-PARSI, Homayoun	(32) 19.07.2019
(21) EP21175742.2	LUGGER, Marko	(33) United States of America
(47) 13.09.2023	ROSENKRANZ, Tobias Daniel	
(22) 25.05.2021	(31) 102015210652	(51) H04W 4/02
(54) CENTRALISED PROCESSING OF AN INPUT AUDIO STREAM	(32) 10.06.2015	H04W 68/00
(73) SAGEMCOM BROADBAND SAS	(33) Germany	G08B 21/02
(72) BERGER, Jérôme	(51) H04R 25/00	G08B 21/24
BOUVIGNE, Gabriel	H04R 25/02	(11) EP3545698
DELPLACE, Stéphane	H04R 1/10	(21) EP17884441.1
SODI, Frédéric		(47) 13.09.2023

(87) US2017058340 28.06.2018	HIMATAT, Nageen	H04W 52/02
(22) 25.10.2017	HUNT, Simon	H04W 4/06
(54) SAFE ZONES IN TRACKING DEVICE ENVIRONMENTS	KARLS, Ingolf	H04W 4/80
(73) Tile, Inc.	KENNEY, Thomas	H04W 12/03
(72) DOXEY, Robert	LIAO, Yiting	H04W 12/40
PUPPALA, Arunkumar	MACNAMARA, Chris	H04W 12/00
PATTERSON, Wayne	MARTINEZ TARRADELL, Marta	H04B 5/00
(31) 201615387243	MUECK, Markus, Dominik	H04L 9/40
(32) 21.12.2016	NALLAMPATTI EKAMBARAM,	(11) EP3552411
(33) United States of America	Venkatesan	(21) EP17881443.0
(51) H04W 4/021	POWER, Niall	(47) 13.09.2023
H04W 4/46	RAAF, Bernhard	(87) US2017065896
H04W 4/44	SCHNEIDER, Reinhold	21.06.2018
H04W 52/28	SINGH, Ashish	(22) 12.12.2017
H04W 52/36	SINGH, Sarabjot	(54) ENERGY EFFICIENT COMMUNICATION FOR DATA ASSET TRANSFERS
(11) EP3522575	SRIKANTESWARA, Srikeyyani	(73) WHP Workflow Solutions, Inc. Getac Technology Corporation
(21) EP18155390.0	TALWAR, Shilpa	(72) GUZIK, Thomas
(47) 13.09.2023	XUE, Feng	ADEEL, Muhammad
(22) 06.02.2018	YU, Zhibin	(31) 201615376644
(54) METHOD AND DEVICE FOR CONTROLLING A TELECOMMUNICATION DEVICE BASED ON A DETERMINED GEOGRAPHIC POSITION FOR EXCHANGING VEHICLE COMMUNICATION MESSAGES	ZAUS, Robert	(32) 12.12.2016
(73) Deutsche Telekom AG	FRANZ, Stefan	(33) United States of America
(72) KLATT, Axel	KLIEMANN, Uwe	(51) H04W 4/24
(51) H04W 4/029	DREWES, Christian	H04L 12/14
H04W 4/30	KREUCHAUF, Juergen	H04M 15/00
H04W 48/18	(31) 201662440501 P	(11) EP3968664
H04W 28/26	(32) 30.12.2016	(21) EP21189580.0
H04W 76/28	(33) United States of America	(47) 13.09.2023
H04W 12/06	(51) H04W 4/06	(22) 20.04.2018
H04W 88/06	H04W 4/10	(54) CHARGING METHODS, DEVICES AND SYSTEMS
H04W 88/16	H04W 76/45	(73) Huawei Technologies Co., Ltd.
H04W 88/18	(11) EP4072170	(72) CHAI, Xiaoqian
H04W 52/02	(21) EP22161501.6	(31) 201710526104
G06F 9/48	(47) 13.09.2023	(32) 30.06.2017
H04W 28/02	(22) 01.10.2016	(33) China
H04W 4/021	(54) BROADCAST BEARER MANAGEMENT METHOD AND DEVICE THEREOF	(51) H04W 4/40
H04W 4/46	(73) Huawei Technologies Co., Ltd.	(11) EP3849220
H04W 8/00	(72) YANG, Yanmei	(21) EP19864442.9
H04W 36/00	GE, Cuili	(47) 13.09.2023
H04W 74/08	WU, Yizhuang	(87) CN2019098057
H04W 76/14	(51) H04W 4/06	02.04.2020
H04W 88/04	H04W 72/00	(22) 27.07.2019
H04B 7/06	H04W 76/40	(54) INTERNET OF VEHICLES MESSAGE INTERACTION METHOD AND RELATED APPARATUS
(11) EP3563595	(11) EP3804363	(73) Huawei Cloud Computing Technologies Co., Ltd.
(21) EP17888538.0	(21) EP19729449.9	(72) LIU, Yan
(47) 13.09.2023	(47) 13.09.2023	ZHOU, Kai
(87) US2017067466	(87) EP2019063068	(31) 201811153589
05.07.2018	05.12.2019	(32) 29.09.2018
(22) 20.12.2017	(22) 21.05.2019	(33) China
(54) METHODS AND DEVICES FOR RADIO COMMUNICATIONS	(54) PROVIDING TO A COMMUNICATION SERVICE NODE USER PLANE TIMING INFORMATION FOR AN MBMS BEARER	(51) H04W 4/40
(73) Intel Corporation	(73) TELEFONAKTIEBOLAGET LM	H04W 72/04
(72) AZIZI, Shahrnaz	ERICSSON (PUBL)	H04W 4/30
BADIC, Biljana	(72) LING, Jie	H04W 4/00
BROWNE, John	XU, Wenliang	H04W 28/04
CAVALCANTI, Dave	TANG, Wenhui	(11) EP3741092
CHOI, Hyung-nam	XU, Haogang	(21) EP18935023.4
CLEVORN, Thorsten	XIE, Jinyang	(47) 13.09.2023
GUPTA, Ajay	(31) PCT/CN2018/088729	(87) CN2018108481
GUPTA, Maruti	(32) 28.05.2018	02.04.2020
HASHOLZNER, Ralph	(33) World Intellectual Property Office (WIPO)	(22) 28.09.2018
	(51) H04W 4/20	(54) CONTROL CHANNEL STRUCTURE DESIGN TO SUPPORT V2X TRAFFIC
	H04W 4/00	
	H04W 12/08	
	H04W 76/10	
	H04W 88/06	

(73) Nokia Technologies Oy	(21) EP19769289.0	H04W 24/10
(72) LI, Dong	(47) 13.09.2023	H04W 74/08
LIU, Yong	(87) US2019048623	(11) EP4021031
WILDSCHEK, Torsten	12.03.2020	(21) EP22155743.2
(51) H04W 4/46	(22) 28.08.2019	(47) 13.09.2023
H04W 4/40	(54) TECHNIQUES FOR FLEXIBLE	(22) 15.01.2020
H04W 4/48	RESOURCE ALLOCATION	(54) NARROWBAND SELECTION FOR
H04W 4/70	(73) QUALCOMM Incorporated	MEASUREMENT REPORTING IN
H04W 72/02	(72) LIU, Le	RANDOM ACCESS
H04W 72/04	RICO ALVARINO, Alberto	(73) QUALCOMM INCORPORATED
H04W 76/14	CHEN, Wanshi	(72) DHANDA, Mungal Singh
(11) EP3923606	WANG, Xiao Feng	RICO ALVARINO, Alberto
(21) EP19915242.2	(31) 201916552797	MIRBAGHERI, Arash
(47) 13.09.2023	201862727832 P	LIU, Le
(87) CN2019075110	(32) 27.08.2019	SENGUPTA, Ayan
20.08.2020	06.09.2018	(31) 202016742253
(22) 14.02.2019	(33) United States of America	201962798942 P
(54) CONNECTION MANAGEMENT	United States of America	(32) 14.01.2020
METHODS AND APPARATUS	(51) H04W 4/70	30.01.2019
(73) GUANGDONG OPPO MOBILE	H04W 4/80	(33) United States of America
TELECOMMUNICATIONS CORP., LTD.	H04L 41/0806	United States of America
(72) LU, Qianxi	H04L 41/0823	(51) H04W 4/70
ZHAO, Zhenshan	H04L 67/2885	H04W 74/08
LIN, Hwei-Ming	H04L 67/56	H04W 24/10
(51) H04W 4/46	H04L 43/0817	(11) EP3918867
H04W 4/44	(11) EP3996397	(21) EP20706036.9
H04W 4/021	(21) EP21176567.2	(47) 13.09.2023
(11) EP3694237	(47) 13.09.2023	(87) US2020013720
(21) EP20155298.1	(22) 28.05.2021	06.08.2020
(47) 13.09.2023	(54) METHOD AND SYSTEM FOR	(22) 15.01.2020
(22) 04.02.2020	CONTROLLING GATEWAY, AND	(54) NARROWBAND SELECTION FOR
(54) ANOMALY MAPPING BY VEHICULAR	ELECTRONIC DEVICE	MEASUREMENT REPORTING IN
MICRO CLOUDS	(73) Beijing Xiaomi Mobile Software Co., Ltd.	RANDOM ACCESS
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	(72) LIN, Bing	(73) QUALCOMM Incorporated
(72) UCAR, Seyhan	(31) 202011233256	(72) DHANDA, Mungal Singh
HIGUCHI, Takamasa	(32) 06.11.2020	RICO ALVARINO, Alberto
HOH, Baik	(33) China	MIRBAGHERI, Arash
ALTINTAS, Onur	(51) H04W 4/70	LIU, Le
OGUCHI, Kentaro	H04W 8/26	SENGUPTA, Ayan
NAKANISHI, Toru	H04W 60/00	(31) 202016742253
(31) 201916273134	H04W 48/18	201962798942 P
(32) 11.02.2019	H04W 4/02	(32) 14.01.2020
(33) United States of America	H04W 8/06	30.01.2019
(51) H04W 4/50	H04W 60/04	(33) United States of America
H04W 4/70	H04W 68/02	United States of America
H04W 12/06	H04W 76/28	(51) H04W 8/18
H04W 12/082	H04W 88/14	H04W 4/60
H04W 48/08	(11) EP3603143	H04W 4/70
(11) EP3320701	(21) EP18789992.7	H04W 8/20
(21) EP16734351.6	(47) 13.09.2023	H04W 12/06
(47) 13.09.2023	(87) KR2018004894	H04W 12/42
(87) EP2016065358	01.11.2018	H04W 40/04
19.01.2017	(22) 27.04.2018	H04W 4/50
(22) 30.06.2016	(54) NETWORK SLICE-AVAILABLE AREA	H04L 9/40
(54) METHOD FOR OPERATING A	INFORMATION ACQUISITION METHOD	(11) EP3707923
WIRELESS COMMUNICATION DEVICE	(73) Samsung Electronics Co., Ltd.	(21) EP18895373.1
(73) Telit Cinterion Deutschland GmbH	(72) LEE, Hoyeon	(47) 13.09.2023
(72) DENZIN, Florian	KIM, Sunghoon	(87) US2018064574
MICHAEL, Oliver	BAEK, Youngkyo	04.07.2019
WEHMEIER, Lars	SON, Jungje	(22) 07.12.2018
(31) 15176268	JIN, Seungri	(54) SUBSCRIPTION MANAGEMENT
(32) 10.07.2015	(31) 20170094177	SERVICE PAIRING
(33) European Patent Office (EPO)	20170054642	(73) T-Mobile USA, Inc.
(51) H04W 4/70	(32) 25.07.2017	(72) NAMIRANIAN, Babak
H04B 1/713	27.04.2017	(31) 201715857191
H04W 88/06	(33) Korea (Republic)	(32) 28.12.2017
H04W 4/02	Korea (Republic)	(33) United States of America
(11) EP3847859	(51) H04W 4/70	(51) H04W 8/18

H04W 88/06	(32) 06.08.2019	(72) JACOBSEN, Rasmus Melchior
(11) EP3864876	10.08.2018	(51) H04W 12/12
(21) EP19762264.0	(33) United States of America	G06F 21/56
(47) 13.09.2023	United States of America	G06N 20/20
(87) US2019046521	(51) H04W 12/02	G06N 3/08
16.04.2020	H04L 9/40	G06N 7/01
(22) 14.08.2019	H04W 12/08	H04L 41/16
(54) PROFILE SWITCH FEATURE IN	H04W 4/16	H04L 9/40
SUBSIDY LOCKED DEVICES WITH	(11) EP3567887	H04W 12/03
EUICC	(21) EP18741424.8	(11) EP3767916
(73) QUALCOMM INCORPORATED	(47) 13.09.2023	(21) EP20184913.0
(72) KOTHAPALLI VENKATA, Phani Pradeep	(87) CN2018073523	(47) 13.09.2023
Kumar	26.07.2018	(22) 09.07.2020
GUDIVADA, Naga Chandan Babu	(22) 19.01.2018	(54) TLS FINGERPRINTING FOR PROCESS
NELUROUTH, Rajendra Prasad	(54) COMMUNICATION METHOD AND	IDENTIFICATION
CHIKKALA, Venkata Durga Vinod	DEVICE	(73) Cisco Technology, Inc.
ALAVALA, Nagarjuna	(73) Huawei Technologies Co., Ltd.	(72) ANDERSON, Blake Harrell
(31) 201816159549	(72) WANG, Zhe	MCGREW, David
(32) 12.10.2018	(31) 201710047257	SCHOMBURG, Keith Richard
(33) United States of America	(32) 22.01.2017	(31) 201916512474
(51) H04W 8/22	(33) China	(32) 16.07.2019
H04W 84/12	(51) H04W 12/06	(33) United States of America
(11) EP3319351	H04W 76/12	(51) H04W 16/14
(21) EP17199629.1	H04W 84/12	H04W 72/04
(47) 13.09.2023	H04L 61/5014	H04W 72/54
(22) 02.11.2017	(11) EP3634077	H04W 72/23
(54) METHOD, SYSTEM AND APPARATUS	(21) EP18808675.5	(11) EP3993475
FOR SIGNALING STATION	(47) 13.09.2023	(21) EP19940588.7
CAPABILITIES TO ESTABLISH	(87) JP2018021016	(47) 13.09.2023
WIRELESS CONNECTIONS	06.12.2018	(87) CN2019110210
(73) Peraso Technologies Inc.	(22) 31.05.2018	11.02.2021
(72) HANSEN, Christopher James	(54) ELECTRONIC DEVICE, WIRELESS	(22) 09.10.2019
LYNCH, Bradley Robert	LAN TERMINAL AND WIRELESS LAN	(54) WIRELESS COMMUNICATION
ANDONIEH, Joseph	SYSTEM	METHOD AND TERMINAL DEVICE
CHENG, Gary	(73) Sharp NEC Display Solutions, Ltd.	(73) GUANGDONG OPPO MOBILE
(31) 201762501529 P	(72) SANADA Kenji	TELECOMMUNICATIONS CORP., LTD.
201762463370 P	(31) PCT/JP2017/020590	(72) XU, Jing
201762457391 P	(32) 02.06.2017	LIN, Yanan
201662417515 P	(33) World Intellectual Property Office (WIPO)	SHEN, Jia
(32) 04.05.2017	(51) H04W 12/06	(31) PCT/CN2019/099693
24.02.2017	H04W 84/12	(32) 07.08.2019
10.02.2017	H04W 12/50	(33) World Intellectual Property Office (WIPO)
04.11.2016	(11) EP3289788	(51) H04W 16/22
(33) United States of America	(21) EP15723149.9	H04B 17/30
United States of America	(47) 13.09.2023	(11) EP3864777
United States of America	(87) EP2015059138	(21) EP20738657.4
United States of America	03.11.2016	(47) 13.09.2023
(51) H04W 8/24	(22) 28.04.2015	(87) KR2020000392
H04W 72/1268	(54) METHOD AND SYSTEM FOR	16.07.2020
H04W 72/23	AUTHENTICATING USERS IN PUBLIC	(22) 09.01.2020
H04W 72/51	WIRELESS NETWORKS	(54) DEVICE AND METHOD FOR
H04W 72/56	(73) Telecom Italia S.p.A.	ANALYZING PROPAGATION
(11) EP3834561	(72) RICCIATO, Fabio	CHARACTERISTICS IN WIRELESS
(21) EP19756298.6	VACCARO, Nicolò	COMMUNICATION SYSTEM
(47) 13.09.2023	(51) H04W 12/08	(73) Samsung Electronics Co., Ltd.
(87) US2019045537	G01D 4/00	(72) CHOI, Dongkyu
13.02.2020	H04W 12/06	CHOI, Junghwan
(22) 07.08.2019	H04L 9/40	AN, Jaesung
(54) USER EQUIPMENT CAPABILITY	(11) EP3367718	YOON, Sungrok
SIGNALING FOR CONCURRENT	(21) EP17158517.7	(31) 20190002697
CHANNEL TRANSMISSIONS	(47) 13.09.2023	(32) 09.01.2019
(73) QUALCOMM Incorporated	(22) 28.02.2017	(33) Korea (Republic)
(72) HUANG, Yi	(54) AN AUTHORISATION SYSTEM AND A	(51) H04W 16/28
YANG, Wei	METHOD FOR AUTHORISING ACCESS	H04B 7/08
GAAL, Peter	IN AN ENERGY SMART METER	H04B 7/06
SRIDHARAN, Gokul	SYSTEM	H04W 52/02
(31) 201916532935	(73) Dansk Fjernflæsning ApS	H04W 56/00
201862717529 P		H04W 76/28

(11) EP3673677	(73) GUANGDONG OPPO MOBILE	(72) LU, Qianxi
(21) EP18773677.2	TELECOMMUNICATIONS CORP., LTD.	ZHAO, Zhenshan
(47) 13.09.2023	(72) Hai, TANG	LIN, Hwei-Ming
(87) US2018047087	Hua, XU	<hr/>
28.02.2019	(51) H04W 24/08	(51) H04W 24/10
(22) 20.08.2018	G01S 11/08	H04W 88/08
(54) BEAM MANAGEMENT FOR	H04B 7/00	H04W 92/20
CONNECTED DISCONTINUOUS	H04B 7/0452	H04L 5/00
RECEPTION WITH ADVANCED GRANT	G06F 1/10	H04L 43/0876
INDICATOR	G06F 1/12	(11) EP3755034
(73) Qualcomm Incorporated	H04J 3/06	(21) EP19754416.6
(72) LUO, Jianghong	(11) EP3659362	(47) 13.09.2023
ISLAM, Muhammad Nazmul	(21) EP18839156.9	(87) JP2019003344
NAGARAJA, Sumeeth	(47) 13.09.2023	22.08.2019
SAMPATH, Ashwin	(87) US2018043972	(22) 31.01.2019
SUBRAMANIAN, Sundar	31.01.2019	(54) FIRST UNIT, SECOND UNIT,
(31) 201816104656	(22) 26.07.2018	COMMUNICATION APPARATUS,
201762548142 P	(54) AIRFRAME TIMESTAMPING	TERMINAL APPARATUS, METHOD,
(32) 17.08.2018	TECHNIQUE FOR POINT-TO-POINT	PROGRAM, AND RECORDING
21.08.2017	RADIO LINKS	MEDIUM
(33) United States of America	(73) Aviat Networks, Inc.	(73) NEC Corporation
United States of America	(72) MARKOVIC, Tadej	(72) YOKOYAMA, Toshihiro
<hr/>	MIHELIC, Janez	HAYASHI, Sadafuku
(51) H04W 16/28	(31) 201762537378 P	(31) 2018023331
H04W 74/08	(32) 26.07.2017	(32) 13.02.2018
H04B 7/0404	(33) United States of America	(33) Japan
H04B 7/06	<hr/>	<hr/>
H04B 7/08	(51) H04W 24/08	(51) H04W 28/02
H04W 36/00	G08G 1/052	(11) EP3603166
(11) EP3425949	G08G 1/0967	(21) EP18721187.5
(21) EP16892446.2	H04W 84/00	(47) 13.09.2023
(47) 13.09.2023	G08G 1/01	(87) US2018024713
(87) JP2016056054	(11) EP2415324	04.10.2018
08.09.2017	(21) EP10759461.6	(22) 28.03.2018
(22) 29.02.2016	(47) 13.09.2023	(54) METHODS, SYSTEMS, AND
(54) BEAM TRANSMISSION-RECEPTION	(87) US2010029757	COMPUTER READABLE MEDIA FOR
METHOD, BASE STATION, TERMINAL,	07.10.2010	MESSAGE FLOOD SUPPRESSION
AND WIRELESS COMMUNICATION	(22) 02.04.2010	DURING ACCESS NODE-GATEWAY
SYSTEM	(54) METHOD AND SYSTEM FOR A	(AN-GW) UNAVAILABILITY AND AFTER
(73) Mitsubishi Electric Corporation	TRAFFIC MANAGEMENT NETWORK	AN-GW RESTORATION
(72) FUKUI, Noriyuki	(73) ITERIS, INC.	(73) Oracle International Corporation
ISHIOKA, Kazuaki	(72) CHAN, Peter	(72) JUNEJA, Rohit
TAKE, Keijiro	CAMPBELL, Neal J.	(31) 201715472211
<hr/>	COURTNEY, Tim	(32) 28.03.2017
(51) H04W 24/02	HAUK, Eric	(33) United States of America
G01S 5/02	OTTENHEIMER, Afan	<hr/>
(11) EP3804386	(31) 752778	(51) H04W 28/02
(21) EP18731009.9	211702 P	H04W 8/02
(47) 13.09.2023	(32) 01.04.2010	H04W 88/08
(87) EP2018064776	02.04.2009	(11) EP3614721
12.12.2019	(33) United States of America	(21) EP18809815.6
(22) 05.06.2018	United States of America	(47) 13.09.2023
(54) TECHNIQUE FOR DETERMINING	<hr/>	(87) KR2018006108
NEIGHBOURING RADIO RESOURCES	(51) H04W 24/10	06.12.2018
BASED ON SIGNAL STRENGTH	H04B 7/0417	(22) 29.05.2018
MEASUREMENTS	H04B 7/06	(54) METHOD FOR MANAGING UPLINK
(73) Telefonaktiebolaget LM Ericsson (publ)	H04W 92/18	QUALITY OF SERVICE AND BASE
(72) HÉVIZI, László	H04B 7/00	STATION FOR PERFORMING SAME
<hr/>	H04L 5/00	METHOD
(51) H04W 24/02	H04L 25/02	(73) LG Electronics Inc.
H04W 72/04	(11) EP4037430	(72) YOUN, Myungjune
H04W 72/12	(21) EP19951926.5	KIM, Hyunsook
(11) EP3873125	(47) 13.09.2023	RYU, Jinsook
(21) EP21167419.7	(87) CN2019115926	CHO, Heejeong
(47) 13.09.2023	14.05.2021	(31) 201762512170 P
(22) 23.03.2017	(22) 06.11.2019	(32) 29.05.2017
(54) METHOD AND DEVICE FOR	(54) CHANNEL QUALITY FEEDBACK	(33) United States of America
DETERMINING DETECTION RANGE	METHOD AND APPARATUS	<hr/>
OF CONTROL CHANNEL IN MULTI-	(73) GUANGDONG OPPO MOBILE	(51) H04W 28/02
BEAM SYSTEM	TELECOMMUNICATIONS CORP., LTD.	H04W 24/10
		H04W 88/02
		H04W 76/12

- (11) EP3417586  
(21) EP16890798.8  
(47) 13.09.2023  
(87) SE2016050121  
24.08.2017  
(22) 17.02.2016  
(54) AN ASSOCIATING UNIT, A MOBILE  
TERMINAL, AND METHODS THEREIN  
FOR SETTING UP BEARERS AND  
COMMUNICATING IN A CONGESTED  
COMMUNICATIONS NETWORK  
(73) Telefonaktiebolaget LM Ericsson (publ)  
(72) INAM, Rafia  
MALMODIN, Jens  
PIERRE, Sébastien  
FERSMAN, Elena  


---

(51) H04W 28/08  
(11) EP3732916  
(21) EP17936902.0  
(47) 13.09.2023  
(87) CN2017119011  
04.07.2019  
(22) 27.12.2017  
(54) CONNECTION ESTABLISHMENT IN A  
CELLULAR NETWORK  
(73) Telefonaktiebolaget LM Ericsson (publ)  
(72) LV, Peng  
WANG, Hai  
BAI, Haiming  
WANG, Zhong  


---

(51) H04W 28/08  
H04W 36/22  
H04W 72/04  
(11) EP3453204  
(21) EP17724117.1  
(47) 13.09.2023  
(87) IB2017052644  
09.11.2017  
(22) 05.05.2017  
(54) USER EQUIPMENT, RESOURCE  
CONTROL SERVER AND  
CORRESPONDING OPERATING  
METHOD  
(73) Telefonaktiebolaget LM Ericsson (publ)  
(72) BOSTROM, Lisa  
BELLESCHI, Marco  
NYLANDER, Tomas  
RUNESON, Stefan  
SORRENTINO, Stefano  
SYNNERGREEN, Per  
WESTERBERG, Erik  
(31) 201662332107 P  
(32) 05.05.2016  
(33) United States of America  


---

(51) H04W 28/16  
H04L 5/00  
H04W 72/04  
(11) EP3451736  
(21) EP17788635.5  
(47) 13.09.2023  
(87) CN2017080146  
02.11.2017  
(22) 11.04.2017  
(54) SIGNALING TRANSMITTING AND  
RECEIVING METHODS, DEVICE,  
NETWORK-SIDE DEVICE, TERMINAL,  
AND STORAGE MEDIUM  
(73) ZTE Corporation  
(72) XIAO, Huahua  
LI, YuNgok  
LI, Jian  
CHEN, Yijian  
YAN, Xiao  
WU, Hao  
LI, Yong  
CAI, Jianxing  
LU, Zhaohua  
WANG, Yuxin  
(31) 201610289895  
(32) 29.04.2016  
(33) China  


---

(51) H04W 28/16  
H04W 16/10  
H04W 16/32  
H04W 72/27  
(11) EP3520458  
(21) EP17780039.8  
(47) 13.09.2023  
(87) EP2017074083  
05.04.2018  
(22) 22.09.2017  
(54) RESOURCE ALLOCATION METHOD  
AND APPARATUS  
(73) British Telecommunications public limited  
company  
(72) MACKENZIE, Richard  
YANG, Yang  
HAO, Mo  
(31) 201610875313  
(32) 30.09.2016  
(33) China  


---

(51) H04W 36/00  
H04W 36/08  
H04W 36/30  
(11) EP3497969  
(21) EP17755010.0  
(47) 13.09.2023  
(87) US2017046590  
15.02.2018  
(22) 11.08.2017  
(54) HANDOVER IN WIRELESS  
COMMUNICATIONS  
(73) QUALCOMM Incorporated  
(72) OZTURK, Ozcan  
GAAL, Peter  
KITAZOE, Masato  
CHEN, Wanshi  
SUN, Jing  
(31) 201715674094  
201662402570 P  
201662374295 P  
(32) 10.08.2017  
30.09.2016  
12.08.2016  
(33) United States of America  
United States of America  
United States of America  


---

(51) H04W 36/00  
H04W 36/24  
H04W 36/32  
(11) EP3939352  
(21) EP19713889.4  
(47) 13.09.2023  
(87) SE2019050235  
24.09.2020  
(22) 15.03.2019  
(54) METHODS AND APPARATUSES  
FOR SWITCHING USER PLANE  
FUNCTIONS BASED ON PREDICTED  
POSITIONAL CHANGE OF A  
WIRELESS DEVICE  
(73) TELEFONAKTIEBOLAGET LM  
ERICSSON (PUBL)  
(72) ROELAND, Dinand  
ERIKSSON, Göran  
MILDH, Gunnar  


---

(51) H04W 36/00  
H04W 36/32  
H04W 36/30  
H04W 36/18  
H04L 5/00  
H04W 88/08  
(11) EP3497973  
(21) EP17742712.7  
(47) 13.09.2023  
(87) EP2017067875  
15.02.2018  
(22) 14.07.2017  
(54) TELECOMMUNICATIONS APPARATUS  
AND METHODS FOR TRIGGERING  
HANDOVER EVALUATION  
PROCEDURE  
(73) Sony Group Corporation  
(72) MARTIN, Brian Alexander  
WONG, Shin Hornq  
BEALE, Martin Warwick  
WEI, Yuxin  
WAKABAYASHI, Hideji  
CHRYSOVALANTIS, Kosta  
(31) 16183702  
(32) 11.08.2016  
(33) European Patent Office (EPO)  


---

(51) H04W 36/00  
H04W 76/12  
H04W 36/14  
(11) EP3796712  
(21) EP19833560.6  
(47) 13.09.2023  
(87) CN2019091813  
16.01.2020  
(22) 19.06.2019  
(54) METHOD AND DEVICE FOR  
ESTABLISHING VOICE SERVICE  
(73) HUAWEI TECHNOLOGIES CO., LTD.  
(72) CHONG, Weiwei  
WU, Xiaobo  
(31) 201810764299  
(32) 12.07.2018  
(33) China  


---

(51) H04W 36/14  
H04W 36/24  
H04W 48/16  
H04W 76/30  
H04W 36/36  
(11) EP3085155  
(21) EP14806591.5  
(47) 13.09.2023  
(87) EP2014076055  
25.06.2015  
(22) 01.12.2014  
(54) OPERATING A WIRELESS DEVICE  
IN A SELECTED RADIO ACCESS  
NETWORK  
(73) Telit Cinterion Deutschland GmbH

(72) BREUER, Volker ULRICH, Thomas	(87) JP2017038741 14.06.2018	AUTOMATIC BROADCAST AFTER UPDATE OF SYSTEM INFORMATION
(31) 13197818	(22) 26.10.2017	(73) SHARP Kabushiki Kaisha
(32) 17.12.2013	(54) TERMINAL DEVICE, METHOD, AND RECORDING MEDIUM	(72) ISHII, Atsushi
(33) European Patent Office (EPO)	(73) Sony Group Corporation	(31) 201662368126 P
(51) H04W 36/18	(72) UCHIYAMA, Hiromasa	(32) 28.07.2016
(11) EP3703466	SHIMEZAWA, Kazuyuki	(33) United States of America
(21) EP17930784.8	MATSUDA, Hiroki	
(47) 13.09.2023	(31) 2016238270	(51) H04W 48/16
(87) CN2017108396 09.05.2019	(32) 08.12.2016	H04W 72/54
(22) 30.10.2017	(33) Japan	(11) EP3905755
(54) SERVICE RELIABILITY IMPROVING METHOD, DEVICE, AND SYSTEM	(51) H04W 48/12	(21) EP19915563.1
(73) Huawei Technologies Co., Ltd.	H04W 36/00	(47) 13.09.2023
(72) SUN, Dekui	H04W 72/00	(87) CN2019075291 20.08.2020
ZHOU, Han	H04W 48/20	(22) 15.02.2019
(51) H04W 36/22	(11) EP2687056	(54) WIRELESS COMMUNICATION METHOD, TERMINAL DEVICE, AND NETWORK DEVICE
H04W 36/32	(21) EP12712484.0	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
H04W 28/08	(47) 13.09.2023	(72) SHI, Zhihua
(11) EP3860221	(87) US2012029540 20.09.2012	ZHANG, Zhi
(21) EP20214043.0	(22) 16.03.2012	CHEN, Wenhong
(47) 13.09.2023	(54) TARGET CELL SELECTION FOR MULTIMEDIA BROADCAST MULTICAST SERVICE CONTINUITY	(51) H04W 48/18
(22) 15.12.2020	(73) Qualcomm Incorporated	H04W 76/15
(54) METHOD FOR CONTROLLING LOAD DISTRIBUTION IN WIRELESS NETWORKS WITH MULTIPLE ACCESS POINTS	(72) ZHANG, Xiaoxia	H04W 88/02
(73) Robert Bosch GmbH	WANG, Jun	H04W 88/08
(72) Schuengel, Maximilian	LIU, Zhengwei	(11) EP3780758
Schoeffler, Michael	GARAVAGLIA, Andrea	(21) EP20199558.6
Ginthoer, David Osamu	LEE, Kuo-chun	(47) 13.09.2023
(31) 102020201262	CHERIAN, George	(22) 23.02.2017
(32) 03.02.2020	(31) 201213421819	(54) IN A WIRELESS COMMUNICATION SYSTEM, NETWORK SLICE SELECTION BASED ON APPLICATION CATEGORY
(33) Germany	201161494795 P	(73) Motorola Mobility LLC
(51) H04W 40/00	201161453893 P	(72) SALKINTZIS, Apostolis
B61L 27/40	(32) 15.03.2012	(31) 201615050840
B61L 15/00	08.06.2011	(32) 23.02.2016
(11) EP3619091	17.03.2011	(33) United States of America
(21) EP18734485.8	(33) United States of America	(51) H04W 52/02
(47) 13.09.2023	United States of America	(11) EP3718348
(87) EP2018066168	United States of America	(21) EP18821868.9
03.01.2019	(51) H04W 48/12	(47) 13.09.2023
(22) 19.06.2018	H04W 48/14	(87) US2018063320 06.06.2019
(54) METHOD AND APPARATUS FOR TRANSMITTING DATA BETWEEN A FIRST COMMUNICATIONS NETWORK OF A FIRST TRACK-GUIDED VEHICLE UNIT AND A SECOND COMMUNICATIONS NETWORK OF A SECOND TRACK-GUIDED VEHICLE UNIT	(11) EP3729871	(22) 30.11.2018
(73) Siemens Mobility GmbH	(21) EP18803697.4	(54) NETWORK INITIATED ON-DEMAND ZERO-ENERGY PAGING METHOD AND APPARATUS
(72) LOHNEIS, Georg	(47) 13.09.2023	(73) InterDigital Patent Holdings, Inc.
(31) 102017211153	(87) EP2018082116 27.06.2019	(72) HAQUE, Tanbir
(32) 30.06.2017	(22) 21.11.2018	PRAGADA, Ravikumar V.
(33) Germany	(54) METHOD FOR TRANSMISSION OF SYSTEM INFORMATION IN A CELLULAR NETWORK	BALASUBRAMANIAN, Anantharaman
(51) H04W 40/12	(73) Telit Cinterion Deutschland GmbH	DEMIR, Alpaslan
H04W 8/00	(72) BREUER, Volker	(31) 201762593631 P
H04W 40/20	(31) 17208789	(32) 01.12.2017
H04W 92/18	(32) 20.12.2017	(33) United States of America
H04L 49/90	(33) European Patent Office (EPO)	
H04W 40/22	(51) H04W 48/14	(51) H04W 52/02
H04W 88/06	H04W 48/16	H04L 5/00
H04W 88/04	(11) EP3491566	(11) EP3813407
(11) EP3554137	(21) EP17835080.7	(21) EP19811334.2
(21) EP17878400.5	(47) 13.09.2023	(47) 13.09.2023
(47) 13.09.2023	(87) US2017043587 01.02.2018	(87) CN2019086917 05.12.2019
	(22) 25.07.2017	(22) 14.05.2019
	(54) WIRELESS TELECOMMUNICATIONS METHODS AND APPARATUS WITH	



(54) SIGNAL TRANSMITTING AND RECEIVING METHOD AND DEVICE	H04L 5/00 H04B 7/02	(33) United States of America United States of America
(73) Datang Mobile Communications Equipment Co., Ltd.	H04W 52/40 H04W 52/36	(51) H04W 56/00 H04W 74/00
(72) YANG, Meiyang MIAO, Deshan MIAO, Jinhua	(11) EP3893561 (21) EP21170413.5 (47) 13.09.2023	(11) EP3783971 (21) EP20196630.6 (47) 13.09.2023
(31) 201810553802	(22) 29.06.2012	(22) 26.07.2018
(32) 31.05.2018	(54) BASE STATION APPARATUS, COMMUNICATION METHOD AND INTEGRATED CIRCUIT	(54) METHOD, TERMINAL DEVICE AND NETWORK DEVICE FOR TIME ADVANCE ADJUSTMENT
(33) China	(73) Sun Patent Trust	(73) Telefonaktiebolaget LM Ericsson (publ)
(51) H04W 52/08 H04W 52/10 H04W 52/24 H04W 52/14 H04W 52/50	(72) IWAI, Takashi IMAMURA, Daichi HOSHINO, Masayuki NISHIO, Akihiko TAMURA, Takashi TAKEDA, Kazuki	(72) Liu, Jinhua Parkvall, Stefan Baldemair, Robert Folke, Mats Enbuske, Henrik Wang, Min Christoffersson, Jan Sahlin, Henrik
(11) EP3626001 (21) EP18802171.1 (47) 13.09.2023	(31) 2012102744 2011154885	(31) PCT/CN2017/097040
(87) CN2018086903 22.11.2018	(32) 27.04.2012 13.07.2011	(32) 11.08.2017
(22) 15.05.2018	(33) Japan Japan	(33) World Intellectual Property Office (WIPO)
(54) SYSTEM AND METHOD FOR WIRELESS POWER CONTROL	(51) H04W 52/34 H04W 52/14 H04W 52/28 H04W 52/38	(51) H04W 68/00 H04W 56/00 H04W 52/02
(73) Huawei Technologies Co., Ltd.	(11) EP3827621 (21) EP19749554.2 (47) 13.09.2023	(11) EP3742819 (21) EP19754504.9 (47) 13.09.2023
(72) LIU, Jialing XIAO, Weimin CHENG, Qian	(87) US2019043499 30.01.2020	(87) CN2019074677 22.08.2019
(31) 201815977872 201762558190 P 201762506435 P	(22) 25.07.2019	(22) 03.02.2019
(32) 11.05.2018 13.09.2017 15.05.2017	(54) POWER CONTROL IN NR-NR DUAL CONNECTIVITY	(54) DETERMINING POSITION OF A PAGING FRAME
(33) United States of America United States of America United States of America	(73) QUALCOMM Incorporated	(73) Vivo Mobile Communication Co., Ltd.
(51) H04W 52/18 H04L 1/16 H04L 27/26 H04W 28/04 H04W 52/14	(72) GAAL, Peter WANG, Xiao Feng CHEN, Wanshi HOSSEINI, Seyedkianoush LEE, Heechoon Ji, Tingfang AMINZADEH GOHARI, Amir	(72) CHEN, Li (31) 201810150975 (32) 13.02.2018 (33) China
(11) EP3709723 (21) EP18877023.4 (47) 13.09.2023	(31) 201916521425 201862703309 P	(51) H04W 72/04 (11) EP3437403 (21) EP16896101.9 (47) 13.09.2023
(87) JP2018041749 16.05.2019	(32) 24.07.2019 25.07.2018	(87) CN2016078393 05.10.2017
(22) 09.11.2018	(33) United States of America United States of America	(22) 01.04.2016
(54) TERMINAL DEVICE, BASE STATION DEVICE, AND COMMUNICATION METHOD	(51) H04W 56/00 H04B 7/06 H04L 27/26 H04J 11/00	(54) METHOD FOR CONFIRMING UPLINK SEMI-PERSISTENT SCHEDULING DEACTIVATION AND TERMINAL DEVICE
(73) Sharp Kabushiki Kaisha FG Innovation Company Limited	(11) EP3809764 (21) EP20213030.8 (47) 13.09.2023	(73) Nokia Technologies Oy (72) WU, Chunli MALKAMÄKI, Esa Mikael LUNDEN, Jari Petteri VIRTEJ, Elena
(72) LIU Liqing SUZUKI Shoichi OUCHI Wataru YOSHIMURA Tomoki LEE Taewoo	(22) 30.04.2018	(51) H04W 72/04 H04L 5/00 H04B 7/0452
(31) 2017217077	(54) SYNCHRONIZATION SIGNAL BLOCK INDEX SIGNALING	(11) EP3878225 (21) EP18939607.0 (47) 13.09.2023
(32) 10.11.2017	(73) Apple Inc.	(87) CN2018113972 14.05.2020
(33) Japan	(72) ZENG, Wei KIM, Yuchul ZHANG, Dawei	(22) 05.11.2018
(51) H04W 52/18 H04W 52/38 H04W 72/04 H04W 52/16 H04W 52/24 H04W 52/14 H04W 52/32 H04L 1/00	(31) 201815964156 201762500690 P	(54) METHOD AND NETWORK ELEMENT OF SCHEDULING UPLINK REFERENCE SIGNAL RESOURCE
	(32) 27.04.2018 03.05.2017	(73) Telefonaktiebolaget LM Ericsson (publ)

(72) ZHU, Yanyan ZHU, Huaisong	(21) EP19922312.4 (47) 13.09.2023	LIU, Hongmei
(51) H04W 72/04	(87) CN2019081585 08.10.2020	(51) H04W 72/12 H04L 5/00 H04W 72/0446
H04L 5/00 H04W 24/10 H04B 7/06	(22) 04.04.2019	(11) EP3858027
(11) EP3737182	(54) METHOD FOR WIRELESS COMMUNICATION AND TERMINAL DEVICE	(21) EP19778481.2 (47) 13.09.2023
(21) EP19736057.1	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(87) EP2019075650 02.04.2020
(47) 13.09.2023	(72) LU, Qianxi ZHAO, Zhenshan	(22) 24.09.2019
(87) CN2019070213 11.07.2019	(72) LIN, Hui-Ming	(54) ADAPTING OPERATIONS IN FLEXIBLE ALLOCATION SLOTS PARTIALLY OVERLAPPING WITH MEASUREMENT GAPS
(22) 03.01.2019	(51) H04W 72/04 H04W 28/06 H04W 72/0446 H04W 84/18	(73) Telefonaktiebolaget LM Ericsson (publ) (72) AXMON, Joakim KAZMI, Muhammad CALLENDER, Christopher
(54) METHOD AND APPARATUS FOR USE IN USER EQUIPMENT AND BASE STATION FOR WIRELESS COMMUNICATION	(11) EP2974506 (21) EP14764161.7 (47) 13.09.2023	(31) 201862738663 P (32) 28.09.2018 (33) United States of America
(73) SHANGHAI LANGBO COMMUNICATION TECHNOLOGY COMPANY LIMITED	(87) US2014028898 18.09.2014	(51) H04W 72/1268 H04L 5/00
(72) WU, Keying ZHANG, Xiaobo	(22) 14.03.2014	(11) EP3691388 (21) EP17927323.0 (47) 13.09.2023
(31) 201810011633 (32) 05.01.2018 (33) China	(54) DATA AGGREGATION METHOD AND NETWORK ARCHITECTURE FOR ROBUST REAL-TIME WIRELESS INDUSTRIAL COMMUNICATION	(87) JP2017035717 04.04.2019
(51) H04W 72/04 H04L 5/00 H04W 72/0446	(73) Robert Bosch GmbH (72) JAIN, Vivek (31) 201361791862 P (32) 15.03.2013 (33) United States of America	(22) 29.09.2017 (54) USER TERMINAL AND WIRELESS COMMUNICATION METHOD (73) NTT DOCOMO, INC. (72) YOSHIOKA, Shohei TAKEDA, Kazuki NAGATA, Satoshi
(11) EP3923657 (21) EP21189765.7 (47) 13.09.2023 (22) 06.06.2017	(51) H04W 72/0446 H04W 72/21 EP3911085 (21) EP21184254.7 (47) 13.09.2023 (22) 28.03.2019	(51) H04W 72/1268 H04L 5/00 H04W 72/566 H04L 5/14
(54) TECHNIQUES FOR TRANSMITTING A PHYSICAL UPLINK SHARED CHANNEL IN AN UPLINK PILOT TIME SLOT	(73) QUALCOMM INCORPORATED (72) CHEN, Wanshi SUN, Jing RICO ALVARINO, Alberto YERRAMALLI, Srinivas	(11) EP3834565 (21) EP19766119.2 (47) 13.09.2023 (87) US2019045690 13.02.2020
(31) 201715462356 201662372642 P 201662357843 P	(54) SELF-CONTAINED SLOT AND SLOT DURATION CONFIGURATION IN NR SYSTEMS	(22) 08.08.2019 (54) MONITORING UPLINK PREEMPTION INDICATION (73) QUALCOMM Incorporated (72) HOSSEINI, Seyedkianoush LI, Chih-Ping CHEN, Wanshi
(32) 17.03.2017 09.08.2016 01.07.2016	(73) Apple Inc. (72) Ji, Zhu LI, Yang KIM, Yuchul SEBENI, Johnson O. ALMALFOUH, Sami M. ZENG, Wei ZHANG, Dawei	(31) 201916534714 201862717653 P (32) 07.08.2019 10.08.2018
(33) United States of America United States of America United States of America	(31) 201916357844 201862650989 P (32) 19.03.2019 30.03.2018 (33) United States of America United States of America	(33) United States of America United States of America
(51) H04W 72/04 H04W 4/02 H04W 56/00	(51) H04W 72/12 (11) EP3695672 (21) EP17928472.4 (47) 13.09.2023	(51) H04W 72/21 H04W 72/12 H04W 72/04
(11) EP3777400 (21) EP19721457.0 (47) 13.09.2023	(87) CN2017105530 18.04.2019	(11) EP3515139 (21) EP16920857.6 (47) 13.09.2023
(87) US2019027395 17.10.2019	(22) 10.10.2017	(87) CN2016104474 11.05.2018
(22) 12.04.2019	(54) DETERMINING A TRANSMISSION SCHEME	(22) 03.11.2016
(54) LOCATION-BASED RESOURCE SCHEDULING	(73) Lenovo (Beijing) Limited (72) LI, Hongchao XIAO, Lingling WU, Lianhai	
(73) Google LLC (72) STAUFFER, Erik Richard WANG, Jibing		
(31) 201815953235 (32) 13.04.2018 (33) United States of America		
(51) H04W 72/04 H04W 28/02 (11) EP3930395		

(54) UPLINK CONTROL INFORMATION TRANSMISSION METHOD, TERMINAL DEVICE, AND NETWORK DEVICE	(11) EP3878223 (21) EP18804151.1 (47) 13.09.2023	(21) EP20704857.0 (47) 13.09.2023 (87) EP2020053425 20.08.2020
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(87) SE2018051134 14.05.2020	(22) 11.02.2020
(72) LIN, Yanan	(22) 06.11.2018	(54) TWO-STEP RANDOM ACCESS PROCEDURE
(51) H04W 72/23	(54) METHOD AND USER EQUIPEMENT FOR REFERENCE SYMBOL TRANSMISSION	(73) Telefonaktiebolaget LM Ericsson (publ)
H04L 1/08	(73) TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)	(72) CHRISTOFFERSSON, Jan
H04L 1/1829	(72) SHRESTHA, Deep	AXNÄS, Johan
H04L 1/1867	(73) SHREEVASTAV, Ritesh	HARRISON, Robert Mark
(11) EP3977795	(72) SIOMINA, Iana	(31) 201962805402 P
(21) EP20886224.3	(73) MODARRES RAZAVI, Sara	(32) 14.02.2019
(47) 13.09.2023	BUSIN, Åke	(33) United States of America
(87) CN2020129355	(51) H04W 72/56	(51) H04W 74/00
20.05.2021	H04W 52/28	H04W 74/08
(22) 17.11.2020	H04W 4/90	(11) EP4007434
(54) APPARATUS AND METHOD OF WIRELESS COMMUNICATION	H04W 4/40	(21) EP22152175.0
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	H04W 92/18	(47) 13.09.2023
(72) XU, Jing	H04W 52/38	(22) 17.03.2016
(31) 201962936603 P	(11) EP3322247	(54) SCHEDULING IN LICENSED ASSISTED ACCESS
(32) 17.11.2019	(21) EP16820815.5	(73) Telefonaktiebolaget LM Ericsson (publ)
(33) United States of America	(47) 13.09.2023	(72) Chen Larsson, Daniel
(51) H04W 72/23	(87) CN2016088562	Yang, Yu
H04L 5/14	12.01.2017	Sorour, Falahati
H04B 7/155	(22) 05.07.2016	Koorapaty, Havish
H04W 84/04	(54) WIRELESS COMMUNICATION DEVICE AND WIRELESS COMMUNICATION METHOD	Mukherjee, Amitav
H04L 1/1812	(73) Sony Group Corporation	Cheng, Jung-Fu
H04L 1/00	(72) HOU, Yanzhao	(31) 201562134303 P
(11) EP2424288	CUI, Qimei	(32) 17.03.2015
(21) EP10766629.9	CAO, Shiwei	(33) United States of America
(47) 13.09.2023	LIANG, Hui	(51) H04W 74/00
(87) CN2010071924	JIANG, Qinyan	H04W 74/08
28.10.2010	ZHANG, Shiyu	H04L 1/00
(22) 20.04.2010	GUO, Xin	H04L 5/00
(54) METHOD, DEVICE AND SYSTEM FOR BACKHAUL LINK COMMUNICATION IN TDD SYSTEM	SUN, Chen	H04W 56/00
(73) Datang Mobile Communications Equipment Co., Ltd.	(31) 201510395183	H04W 76/27
(72) ZHANG, Wenjian	(32) 07.07.2015	(11) EP4032359
PAN, Xueming	(33) China	(21) EP20786140.2
WANG, Libo	(51) H04W 74/00	(47) 13.09.2023
SHEN, Zukang	H04B 7/185	(87) US2020051512
(31) 200910091200	H04W 56/00	25.03.2021
200910082699	H04W 4/70	(22) 18.09.2020
(32) 13.08.2009	(11) EP3881632	(54) MESSAGE CONFIGURATION FOR TWO-STEP RANDOM ACCESS PROCEDURE
24.04.2009	(21) EP19813700.2	(73) QUALCOMM INCORPORATED
(33) China	(47) 13.09.2023	(72) LEI, Jing
China	(87) US2019059182	CHEN, Wanshi
(51) H04W 72/23	22.05.2020	HE, Linhai
H04W 88/04	(22) 31.10.2019	LY, Hung Dinh
(11) EP4044442	(54) SATELLITE OPERATION OF NARROWBAND INTERNET OF THINGS RADIO PROTOCOL	PARK, Seyong
(21) EP19950579.3	(73) Hughes Network Systems, LLC	(31) 202017023840
(47) 13.09.2023	(72) CHIN, Michael	201962902230 P
(87) CN2019114878	WHITMARSH, William	(32) 17.09.2020
06.05.2021	(31) 201916371886	18.09.2019
(22) 31.10.2019	201862767659 P	(33) United States of America
(54) UPLINK TRANSMISSION METHODS AND COMMUNICATION APPARATUS	(32) 01.04.2019	United States of America
(73) Huawei Technologies Co. Ltd.	15.11.2018	(51) H04W 74/00
(72) DING, Mengying	(33) United States of America	H04W 74/08
LIAO, Shuri	United States of America	H04L 1/1607
ZHANG, Peng	United States of America	H04L 1/1829
(51) H04W 72/542	(51) H04W 74/00	H04L 1/1867
H04L 5/00	H04W 74/08	H04L 5/00
H04W 64/00	(11) EP3925369	(11) EP3893586
		(21) EP19908927.7
		(47) 13.09.2023

(87) CN2019071480 16.07.2020	(54) USER TERMINAL, RADIO COMMUNICATION METHOD, BASE STATION AND SYSTEM	(31) 201715459758 201662402816 P
(22) 11.01.2019	(73) NTT DOCOMO, INC.	(32) 15.03.2017 30.09.2016
(54) METHOD AND APPARATUS FOR DETERMINING CHANNEL ACCESS SCHEME, TERMINAL DEVICE, AND NETWORK DEVICE	(72) HARADA, Hiroki TAKEDA, Kazuki NAGATA, Satoshi	(33) United States of America United States of America
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(31) 2016219019	(51) H04W 76/30 H04W 76/38 H04W 88/02
(72) WU, Zuomin LIN, Yanan	(32) 09.11.2016	(11) EP4027749
(51) H04W 74/06	(33) Japan	(21) EP21211235.3
(11) EP3335506	(51) H04W 74/08	(47) 13.09.2023
(21) EP16753437.9	H04W 76/15	(22) 24.07.2014
(47) 13.09.2023	H04W 74/00	(54) METHODS AND APPARATUSES FOR CALL TERMINATION
(87) GB2016052510	H04W 84/04	(73) Huawei Technologies Co., Ltd.
23.02.2017	(11) EP3893590	(72) JIN, Hui
(22) 12.08.2016	(21) EP21176762.9	ZHANG, Feng
(54) WIRELESS COMMUNICATION METHOD AND SYSTEM	(47) 13.09.2023	YAO, Songping
(73) PureLiFi Limited	(22) 07.11.2013	(51) H04W 80/02
(72) BERNER, Stephan	(54) NODES AND METHODS FOR RANDOM ACCESS IN DUAL CONNECTIVITY	H04L 49/9015
(31) 201514517	(73) Telefonaktiebolaget LM Ericsson (publ)	H04L 49/9047
(32) 14.08.2015	(72) Rahman, Imadur	H04L 49/9057
(33) United Kingdom	Song, Xinghua	H04L 1/1867
(51) H04W 74/08	Chen Larsson, Daniel	(11) EP3382961
(11) EP3930415	Li, Shaohua	(21) EP18165418.7
(21) EP19925662.9	Guo, Zhiheng	(47) 13.09.2023
(47) 13.09.2023	Yang, Yu	(22) 03.04.2018
(87) CN2019084154	(31) 201361863578 P	(54) APPARATUS AND BUFFER CONTROL METHOD THEREOF IN WIRELESS COMMUNICATION SYSTEM
29.10.2020	(32) 08.08.2013	(73) Samsung Electronics Co., Ltd.
(22) 24.04.2019	(33) United States of America	(72) Kim, Donggun
(54) RANDOM ACCESS METHOD	(51) H04W 76/15	Kim, Soeng-Hun
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	H04W 76/11	Jang, Jaehyuk
(72) SHI, Cong	H04L 1/16	(31) 20170058498
(51) H04W 74/08	(11) EP3972170	20170041702
H04L 5/00	(21) EP20836317.6	(32) 11.05.2017
(11) EP3501229	(47) 13.09.2023	31.03.2017
(21) EP17752258.8	(87) CN2020100039	(33) Korea (Republic) Korea (Republic)
(47) 13.09.2023	14.01.2021	(51) H04W 84/18
(87) US2017045605	(22) 03.07.2020	G01K 17/06
22.02.2018	(54) MULTI-LINK COMMUNICATION METHOD AND RELATED DEVICE	G01D 4/00
(22) 04.08.2017	(73) Huawei Technologies Co., Ltd.	G05B 15/02
(54) COMMUNICATING CONTROL INFORMATION VIA INTERLEAVED SYMBOLS	(72) GUO, Yuchen	G06Q 50/06
(73) QUALCOMM Incorporated	LI, Yunbo	H04W 12/069
(72) LI, Chong	HUANG, Guogang	H04L 9/40
LI, Junyi	(31) 201910608995	(11) EP3866411
GUPTA, Piyush	(32) 05.07.2019	(21) EP21167153.2
(31) 201715616124	(33) China	(47) 13.09.2023
201662377470 P	(51) H04W 76/28	(22) 28.03.2017
(32) 07.06.2017	H04W 52/02	(54) DISTRIBUTION SYSTEM FOR A SIGNAL COMMUNICATION SYSTEM
19.08.2016	(11) EP3520497	(73) ista SE
(33) United States of America United States of America	(21) EP17761787.5	(72) NIEDERFELD, Gerhard
(51) H04W 74/08	(47) 13.09.2023	ALTAN, Nicola
H04W 28/04	(87) US2017049147	(51) H04W 84/18
H04W 72/12	05.04.2018	H04W 40/00
H04W 72/23	(22) 29.08.2017	(11) EP3614788
H04W 74/02	(54) DISCONTINUOUS RECEPTION MODE WITH TWO-STAGE WAKE-UP	(21) EP19192244.2
H04W 74/00	(73) QUALCOMM Incorporated	(47) 13.09.2023
(11) EP4007432	(72) ANG, Peter Pui Lok	(22) 19.08.2019
(21) EP22151341.9	AMINZADEH GOHARI, Amir	(54) ROUTING OF A MESSAGE TO A GATEWAY IN AN AD HOC NETWORK
(47) 13.09.2023	GOROKHOV, Alexei Yurievitch	(73) Toshiba Tec Kabushiki Kaisha
(22) 08.11.2017	CHALLA, Raghu Narayan	(72) Tsuchida, Sunao
	Ji, Tingfang	Ishikawa, Hiroyuki
	MUKKAVILLI, Krishna Kiran	
	AGARWAL, Ravi	
	SORIAGA, Joseph Binamira	
	XU, Hao	

(31) 2018157167	(47) 13.09.2023	(22) 07.12.2017
(32) 24.08.2018	(22) 24.12.2020	(54) WIRING SUBSTRATE, MULTILAYER WIRING SUBSTRATE, AND METHOD FOR MANUFACTURING WIRING SUBSTRATE
(33) Japan	(54) HIGH-FREQUENCY HEATING DEVICE	
(51) H04W 84/22	(73) Shenzhen Eigate Technology Co., Ltd.	(73) Toppan Printing Co., Ltd.
H04W 40/24	(72) LIU, Tuanfang	(72) HITSUOKA Yasuyuki
H04L 41/0823	(31) 202021227108 U	(31) 2016243664
(11) EP3562260	202010605464	(32) 15.12.2016
(21) EP19152507.0	(32) 29.06.2020	(33) Japan
(47) 13.09.2023	29.06.2020	
(22) 18.01.2019	(33) China	(51) H05K 7/14
(54) AUTOMATICALLY DETERMINING MESH NETWORK ROLE OF NETWORK DEVICE	China	B60T 13/66
(73) Hewlett Packard Enterprise Development LP	(51) H05B 45/46	B60T 15/02
	H05B 45/10	B60T 17/04
(72) Huang, Kangchang	F21V 5/00	(11) EP3384743
Fu, Xiaoyang	F21V 5/08	(21) EP17700104.7
Wang, Xuefu	(11) EP3869921	(47) 13.09.2023
(31) 201810395879	(21) EP21158442.0	(87) EP2017050064
(32) 27.04.2018	(47) 13.09.2023	03.08.2017
(33) China	(22) 22.02.2021	(22) 03.01.2017
(51) H04W 88/06	(54) LED LIGHTING DEVICE	(54) BRAKE CONTROL ASSEMBLY AND METHOD FOR BUILDING THE BRAKE CONTROL ASSEMBLY
H04W 48/08	(73) Arianna S.p.A.	(73) Siemens Mobility GmbH
H04W 48/00	(72) TREVISANELLO, Lorenzo	(72) KLUTH, Wolfgang
H04W 48/16	(31) 202000003566	REINICKE, Stefan
H04W 48/20	(32) 20.02.2020	(31) 102016000760
(11) EP3554186	(33) Italy	(32) 27.01.2016
(21) EP19176590.8	(51) H05H 1/46	(33) Germany
(47) 13.09.2023	(11) EP3731603	(51) H05K 7/20
(22) 29.01.2016	(21) EP17935609.2	(11) EP3675616
(54) APPARATUS AND METHOD FOR SETTING NETWORK OF ANOTHER DEVICE	(47) 13.09.2023	(21) EP19219616.0
(73) Samsung Electronics Co., Ltd.	(87) JP2017045811	(47) 13.09.2023
(72) LEE, Yong-woo	27.06.2019	(22) 24.12.2019
YOON, Chang-heon	(22) 20.12.2017	(54) SYSTEM FOR PROTECTING AN ELECTRONIC COMPONENT
KIM, Jong-min	(54) PLASMA EMITTING DEVICE WITH CLOGGING DETERMINATION	(73) Thales
PARK, Sang-hun	(73) FUJI Corporation	(72) GHERIB, Mehdi
SO, Sung-min	(72) JINDO, Takahiro	CALVET, Bruno
SIM, Wha-seob	IKEDO, Toshiyuki	GRIBOVALLE, David
OH, Se-young	TAKIKAWA, Shinji	BRAGATO, Jérémy
(31) 20150015333	NIWA, Akihiro	SERMET, Fabrice
(32) 30.01.2015	(51) H05K 3/12	(31) 1874095
(33) Korea (Republic)	H05K 13/00	(32) 26.12.2018
(51) H05B 3/34	B41F 15/08	(33) France
H05B 3/14	B41F 15/16	(51) H05K 7/20
H01B 7/08	B41F 15/18	(11) EP3840558
C09J 7/30	(11) EP3735807	(21) EP20214854.0
C09J 9/02	(21) EP18837070.4	(47) 13.09.2023
(11) EP3901966	(47) 13.09.2023	(22) 17.12.2020
(21) EP19901087.7	(87) US2018067437	(54) COOLING MODULE FOR AN ELECTRICAL CABINET
(47) 13.09.2023	11.07.2019	(73) Schneider Electric Industries SAS
(87) JP2019049157	(22) 24.12.2018	(72) PERRIN, Alain
25.06.2020	(54) EDGE LOCK ASSEMBLY FOR A STENCIL PRINTER AND METHOD AND SYSTEM THEREFOR	LOPEZ, Josep
(22) 16.12.2019	(73) Illinois Tool Works Inc.	(31) 1914783
(54) CONDUCTIVE ADHESIVE SHEET, LAMINATE, AND HEATING DEVICE	(72) MARIANO, Daniel	(32) 18.12.2019
(73) LINTEC CORPORATION	LOSIEWICZ, William A.	(33) France
(72) MORIOKA, Takashi	(31) 201815860093	(51) H05K 7/20
ITO, Masaharu	(32) 02.01.2018	F25B 27/02
HAGIHARA, Yoshiaki	(33) United States of America	G06F 9/50
(31) 2018235604	(51) H05K 3/42	(11) EP3061330
(32) 17.12.2018	H05K 3/10	(21) EP14793829.4
(33) Japan	H05K 1/11	(47) 13.09.2023
(51) H05B 6/36	H05K 3/00	(87) EP2014073149
H05B 6/10	(11) EP3557957	11.06.2015
(11) EP3934382	(21) EP17881483.6	(22) 28.10.2014
(21) EP20217260.7	(47) 13.09.2023	
	(87) JP2017044091	
	21.06.2018	

(54) USE OF STIRLING ENGINES FOR INFORMATION PROCESSING SYSTEM	(51) H10K 50/805 H10K 50/814 H10K 71/00	(21) EP21209019.5 (47) 13.09.2023 (22) 18.11.2021
(73) BULL	(11) EP3144992	(54) FLEXIBLE DEVICE AND ELECTRONIC DEVICE
(72) MAUPU, Yann	(21) EP15792124.8	(73) Samsung Electronics Co., Ltd.
(31) 1360368	(47) 13.09.2023	(72) LEE, Gae Hwang
(32) 24.10.2013	(87) KR2015004484	YUN, Youngjun
(33) France	19.11.2015	CHUNG, Jong Won
(51) H05K 7/20 H02G 5/10	(22) 04.05.2015	(31) 20210092252
(11) EP3864943	(54) ORGANIC LIGHT-EMITTING DEVICE	(32) 14.07.2021
(21) EP19801717.0	(73) LG Display Co., Ltd.	(33) Korea (Republic)
(47) 13.09.2023	(72) KANG, Minsoo	(51) H10K 59/122 H10K 102/00
(87) EP2019079586	JANG, Seongsu	(11) EP3767680
04.06.2020	MOON, Young Kyun	(21) EP18909397.4
(22) 30.10.2019	PARK, Sung Soo	(47) 13.09.2023
(54) DEVICE FOR COOLING A BUSBAR	KIM, Cheol Hyeon	(87) CN2018115700
(73) Siemens Aktiengesellschaft	(31) 20140057288	19.09.2019
(72) HOFFMANN, Ingolf	(32) 13.05.2014	(22) 15.11.2018
(31) 18208453	(33) Korea (Republic)	(54) DISPLAY PANEL AND MANUFACTURING METHOD THEREFOR, AND DISPLAY APPARATUS
(32) 27.11.2018	(51) H10K 50/844	(73) BOE TECHNOLOGY GROUP CO., LTD.
(33) European Patent Office (EPO)	(11) EP3002799	Hefei Xinsheng Optoelectronics Technology Co., Ltd.
(51) H05K 13/00 A61B 5/0205 A61B 5/00	(21) EP15186884.1	(72) XIE, Xuewu
(11) EP2917900	(47) 13.09.2023	LIU, Hao
(21) EP13853910.1	(22) 25.09.2015	AI, Yu
(47) 13.09.2023	(54) FLEXIBLE ORGANIC LIGHT EMITTING DISPLAY DEVICE	LIU, Bowen
(87) FI2013051000	(73) LG Display Co., Ltd.	KONG, Yubao
15.05.2014	(72) LEE, JaeYoung	LI, Huihui
(22) 23.10.2013	YANG, Wonjae	(31) 201810202060
(54) AN APPARATUS AND SENSORS FOR ATTACHMENT TO THE APPARATUS	PARK, JoonWon	(32) 12.03.2018
(73) Nokia Technologies Oy	KIM, Tae-Kyung	(33) China
(72) BORINI, Stefano	LEE, Sangheun	(51) H10K 59/131 H10K 50/842
WHITE, Richard	HUH, HaeRi	(11) EP3567647
ASTLEY, Michael	HEO, HunHoe	(21) EP19173706.3
(31) 201213670856	KIM, Ji-Min	(47) 13.09.2023
(32) 07.11.2012	(31) 20140180560	(22) 10.05.2019
(33) United States of America	20140169336	(54) ORGANIC LIGHT EMITTING DISPLAY APPARATUS
(51) H05K 13/00 H05K 13/02 H05K 13/08	20140131810	(73) Samsung Display Co., Ltd.
(11) EP3843517	20140131653	(72) Chung, Yun-mo
(21) EP18931183.0	(32) 15.12.2014	Lee, Tak-young
(47) 13.09.2023	30.11.2014	Yoon, Joosun
(87) JP2018031146	30.09.2014	(31) 20180053725
27.02.2020	30.09.2014	(32) 10.05.2018
(22) 23.08.2018	(33) Korea (Republic)	(33) Korea (Republic)
(54) MOVING WORK MANAGEMENT DEVICE, MOVING WORK DEVICE, MOUNTING SYSTEM, AND MOVING WORK MANAGEMENT METHOD	Korea (Republic)	(51) H10K 59/38 H10K 50/86 G02F 1/1335
(73) Fuji Corporation	Korea (Republic)	(11) EP3671853
(72) YASUI, Yoshihiro	(51) H10K 59/121	(21) EP19216977.9
YAMASHITA, Yukihiko	(11) EP3317898	(47) 13.09.2023
(51) H05K 13/08 H05K 13/04	(21) EP15858120.7	(22) 17.12.2019
(11) EP3592126	(47) 13.09.2023	(54) DISPLAY PANEL AND DISPLAY DEVICE INCLUDING THE SAME
(21) EP17898831.7	(87) CN2015096951	(73) Samsung Display Co., Ltd
(47) 13.09.2023	12.01.2017	(72) Joo, Sun-Kyu
(87) JP2017007972	(22) 10.12.2015	Oh, Keunchan
07.09.2018	(54) TRANSPARENT DISPLAY PANEL AND DISPLAY DEVICE	(31) 20180163806
(22) 28.02.2017	(73) BOE Technology Group Co., Ltd.	(32) 18.12.2018
(54) COMPONENT TRANSFER DEVICE	(72) XU, Xiaowei	(33) Korea (Republic)
(73) Fuji Corporation	LIU, Libin	(51) H10K 59/60 H10K 59/35
(72) TESHIMA, Chikashi	(31) 201510388997	
HATTORI, Kazuma	(32) 03.07.2015	
	(33) China	
	(51) H10K 59/121 H10K 59/131 H10K 39/32 H10K 77/10 H10K 102/00	
	(11) EP4120352	

H04M 1/02	(22) 24.04.2017	(72) WANIOR, Matheus
(11) EP3985738	(54) ORGANIC LIGHT-EMITTING ELEMENT	ABÄCHERLI, Vital
(21) EP21182894.2	(73) LG Chem, Ltd.	BÜHLER, Carl
(47) 13.09.2023	(72) HEO, Dong Uk	SAILER, Bernd
(22) 30.06.2021	LEE, Dong Hoon	SCHLENGA, Klaus
(54) DISPLAY PANEL AND DISPLAY	HUH, Jungoh	THÖNER, Manfred
DEVICE USING THE SAME	JANG, Boonjae	FIELD, Michael
(73) LG Display Co., Ltd.	KANG, Minyoung	(31) 102019204926
(72) CHO, Young Sung	HAN, Miyeon	(32) 05.04.2019
JANG, Hyung Uk	JUNG, Min Woo	(33) Germany
JUN, Sung Woo	(31) 20160052248	(51) H10N 69/00
(31) 20200135389	(32) 28.04.2016	H10N 60/20
(32) 19.10.2020	(33) Korea (Republic)	H10N 60/01
(33) Korea (Republic)	(51) H10K 85/60	(11) EP3935670
(51) H10K 85/60	C07D 417/10	(21) EP20744185.8
C07D 209/86	C07D 413/04	(47) 13.09.2023
C09K 11/06	C07D 403/10	(87) US2020016798
C07F 15/00	(11) EP3436452	10.09.2020
C07D 209/88	(21) EP16893863.7	(22) 05.02.2020
C07D 401/04	(47) 13.09.2023	(54) SUPERCONDUCTOR GROUND PLANE
C07D 401/10	(87) CN2016076340	PATTERNING GEOMETRIES THAT
C07D 401/14	21.09.2017	ATTRACT MAGNETIC FLUX
C07D 405/14	(22) 15.03.2016	(73) Northrop Grumman Systems Corporation
C07D 409/14	(54) ORGANIC ELECTROLUMINESCENT	(72) HERR, Anna Y.
C07D 487/04	COMPOUND AND ORGANIC	TALANOV, Vladimir V.
C07D 491/04	ELECTROLUMINESCENT DEVICE	HERR, Quentin P.
C07D 495/04	THEREOF	(31) 201916296007
H10K 50/12	(73) DOW GLOBAL TECHNOLOGIES LLC	(32) 07.03.2019
(11) EP3131879	Rohm and Haas Electronic Materials	(33) United States of America
(21) EP15780679.5	Korea Ltd.	
(47) 13.09.2023	(72) CHO, Sang Hee	
(87) KR2015003890	NA, Hong Yeop	
22.10.2015	TANG, Zhengming	
(22) 17.04.2015	FENG, Shaoguang	
(54) MULTI-COMPONENT HOST	MOON, Doo-Hyeon	
MATERIAL AND AN ORGANIC	(51) H10K 85/60	
ELECTROLUMINESCENCE DEVICE	H10K 50/12	
COMPRISING THE SAME	(11) EP3767694	
(73) Rohm And Haas Electronic Materials	(21) EP19870956.0	
Korea Ltd.	(47) 13.09.2023	
(72) AHN, Hee-Choon	(87) KR2019013327	
KIM, Young-Kwang	16.04.2020	
LEE, Su-Hyun	(22) 11.10.2019	
JUN, Ji-Song	(54) ORGANIC LIGHT-EMITTING DEVICE	
LEE, Seon-Woo	(73) LG CHEM, LTD.	
KIM, Chi-Sik	(72) CHOI, Ji Young	
PARK, Kyoung-Jin	SUH, Sang Duk	
KIM, Nam-Kyun	LEE, Woochul	
CHOI, Kyung-Hoon	KIM, Joo Ho	
SHIM, Jae-Hoon	KIM, Hoon Jun	
CHO, Young-Jun	LEE, Dong Hoon	
LEE, Kyung-Joo	(31) 20180121874	
(31) 20140087769	(32) 12.10.2018	
20140046857	(33) Korea (Republic)	
(32) 11.07.2014	(51) H10N 60/01	
18.04.2014	(11) EP3948963	
(33) Korea (Republic)	(21) EP20717817.9	
Korea (Republic)	(47) 13.09.2023	
(51) H10K 85/60	(87) EP2020059382	
C07D 251/24	08.10.2020	
C07D 209/82	(22) 02.04.2020	
H10K 50/15	(54) FINISHED CONDUCTOR	
H10K 50/16	ARRANGEMENT FOR AN NB3SN	
(11) EP3389108	SUPERCONDUCTOR WIRE AND	
(21) EP17789864.0	METHOD FOR PRODUCING A	
(47) 13.09.2023	SUBELEMENT FOR AN NB3SN	
(87) KR2017004326	SUPERCONDUCTOR WIRE	
02.11.2017	(73) Bruker EAS GmbH	

## EP3

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

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

(51) A01D 17/10	(33) United States of America	(51) A01N 1/02
(11) EP3697192	European Patent Office (EPO)	C12N 5/02
(21) EP18795944.0	(47) 07.06.2023	(11) EP3539381
(22) 12.10.2018	(51) A01J 5/007	(21) EP19158815.1
(54) CONVEYOR DEVICE	(11) EP3749087	(22) 04.11.2011
(73) Grimme Landmaschinenfabrik GmbH & Co. KG	(21) EP19705405.9	(54) IRRADIATION OF RED BLOOD CELLS AND ANAEROBIC STORAGE
(72) KOMOSSA, Hendrik HÖNEMANN, Heinrich REDEL, Stefan LANDSBERG, Jörg	(22) 07.02.2019	(73) Hemanext Inc.
(74) ir. J.C. Volmer c.s.	(54) CONTROL UNIT, METHOD AND COMPUTER PROGRAM FOR A MILKING SYSTEM	(72) YOSHIDA, Tatsuro VERNUCCI, Paul
(31) 102017124616	(73) DeLaval Holding AB	(74) ir. W.J.J.M. Kempes
(32) 20.10.2017	(72) PAULRUD, Carl Oskar	(31) 41068410 P
(33) Germany	(74) ir. W.J.J.M. Kempes	(32) 05.11.2010
(47) 31.05.2023	(31) 1850142	(33) United States of America
(51) A01F 15/07	(32) 09.02.2018	(47) 24.05.2023
(11) EP3975690	(33) Sweden	(51) A22C 7/00
(21) EP20728228.6	(47) 09.08.2023	(11) EP3871505
(22) 27.05.2020	(51) A01J 5/017	(21) EP21169583.8
(54) BALER CONNECTABLE TO A TRACTOR AND METHOD	(11) EP3685659	(22) 21.12.2017
(73) Kverneland Group Ravenna S.r.l.	(21) EP20153619.0	(54) INSTALLATION AND METHOD FOR MOULDING FOOD PRODUCTS WITH A PRESSURIZED AIR FOOD PRODUCT EJECTION SYSTEM FROM A MOULD DRUM
(72) VARLEY, Seamus	(22) 24.01.2020	(73) Marel Further Processing B.V.
(74) ir. W.J.J.M. Kempes	(54) VISION SYSTEM WITH TEAT DETECTION	(72) DUNNEWIND, Albertus TUBIC, Tihomir DEKKER, Thomas Willem MEULENDIJKS, Johannes Martinus
(31) 201900007593	(73) Technologies Holdings Corporation	(74) ir. W.J.J.M. Kempes
(32) 30.05.2019	(72) VOIGT, Richard B. FORESMAN, Mark A.	(31) 2018036
(33) Italy	(74) ir. F.A. Geurts c.s.	(32) 21.12.2016
(47) 05.07.2023	(31) 201916256558	(33) Netherlands
(51) A01H 5/00	(32) 24.01.2019	(47) 14.06.2023
C07K 14/415	(33) United States of America	(51) A23C 19/028
C12N 15/82	(47) 07.06.2023	A23C 19/05
A01H 1/04	(51) A01J 9/04	A23C 19/055
A01H 5/06	F25D 31/00	A23C 19/068
A01H 5/12	(11) EP3554227	(11) EP2999349
C12N 9/88	(21) EP17818330.7	(21) EP14734859.3
A01H 1/06	(22) 15.12.2017	(22) 21.05.2014
(11) EP3326453	(54) METHOD AND APPARATUS FOR COOLING OF MILK	(54) PROCESS FOR MAKING CHEESE AND CHEESE OBTAINABLE THEREBY
(21) EP17206713.4	(73) DeLaval Holding AB	(73) Ingredia
(22) 13.10.2011	(72) STOPA, Jerzy	(72) LESUR, Céline
(54) ALS INHIBITOR HERBICIDE TOLERANT BETA VULGARIS MUTANTS	(74) ir. W.J.J.M. Kempes	DAVID, Franck SNAPPE, Jean Jacques
(73) KWS SAAT SE & Co. KGaA Bayer Intellectual Property GmbH	(31) 1651660	(74) ir. W.J.J.M. Kempes
(72) Benting, Jürgen Knittel-Ottleben, Nathalie Holtschulte, Bernd Loock, Andreas Jansen, Rudolf Springmann, Clemens Donn, Günter Hain, Rüdiger	(32) 16.12.2016	(31) 1354517
(74) ir. W.J.J.M. Kempes	(33) Sweden	(32) 21.05.2013
(31) 394463 P	(47) 09.08.2023	(33) France
10187751	(51) A01M 23/30	(47) 14.06.2023
(32) 19.10.2010	A01M 25/00	(51) A23D 9/007
15.10.2010	A01M 31/00	A23D 9/02
	(11) EP3646727	A23D 9/06
	(21) EP18203464.5	C11B 3/12
	(22) 30.10.2018	C11B 3/14
	(54) BAIT AND/OR TRAP STATION ADAPTED FOR REDUCING NON-TARGET POISONINGS AND BYCATCHES	C11B 5/00
	(73) Camro A/S	(11) EP3614853
	(72) Sørensen, Kurt	
	(74) ir. W.J.J.M. Kempes	
	(47) 07.06.2023	



(21) EP18722373.0	(21) EP20758289.1	(47) 16.08.2023
(22) 26.04.2018	(22) 13.08.2020	(51) A47F 3/04
(54) STABILITY OF SHORT PATH EVAPORATION TREATED OILS	(54) AEROSOL PROVISION SYSTEMS	E05D 15/58
(73) Cargill, Incorporated	(73) Nicoventures Trading Limited	(11) EP3585216
(72) BRÜSE, Falk	(72) BOHAM, Scott George	(21) EP17707290.7
(74) ir. W.J.J.M. Kempes	HUGHES, Steve	(22) 24.02.2017
(31) 17169482	(74) ir. W.J.J.M. Kempes	(54) REFRIGERATED SALES FURNITURE
17168224	(31) 201912477	(73) Carrier Corporation
(32) 04.05.2017	(32) 30.08.2019	(72) KOEHLER, Dirk
26.04.2017	(33) United Kingdom	VALLEE, Christophe
(33) European Patent Office (EPO)	(47) 07.06.2023	STADTMUELLER, Thomas
European Patent Office (EPO)	(51) A24F 40/60	(74) dr. R.C. van Duijvenbode c.s.
(47) 02.08.2023	A24F 40/42	(47) 07.06.2023
(51) A24C 5/28	A24F 40/10	(51) A47J 31/36
A24C 5/32	(11) EP3849353	(11) EP3813603
A24C 5/33	(21) EP20760512.2	(21) EP19734079.7
A24C 5/47	(22) 13.08.2020	(22) 28.06.2019
(11) EP3735843	(54) AEROSOL PROVISION SYSTEMS	(54) CAPSULE DISTRIBUTING DEVICE WITH BULK LOADING
(21) EP20183263.1	(73) Nicoventures Trading Limited	(73) Mitaca S.r.l.
(22) 17.05.2017	(72) BOHAM, Scott George	(72) MINERBA, Francesco
(54) CUTTING AND ARRANGING RODS FOR TOBACCO INDUSTRY PRODUCTS	HUGHES, Steve	BONIZZONI, Angelo
(73) British American Tobacco (Investments) Limited	(74) ir. W.J.J.M. Kempes	(74) J.M.H. Duyver lic.
(72) BRAY, Andrew Jonathan	(31) 201912477	(31) 201800006749
FALLON, Gary	(32) 30.08.2019	(32) 28.06.2018
LEROUX, Gerhard	(33) United Kingdom	(33) Italy
(74) ir. W.J.J.M. Kempes	(47) 07.06.2023	(47) 31.05.2023
(31) 201608810	(51) A43B 13/12	(51) A47J 31/40
(32) 19.05.2016	A43B 13/18	A47J 31/46
(33) United Kingdom	(11) EP3379963	(11) EP3612062
(47) 09.08.2023	(21) EP16798795.7	(21) EP18722237.7
(51) A24F 40/44	(22) 23.11.2016	(22) 18.04.2018
A24F 40/46	(54) SOLE, PARTICULARLY FOR SHOES	(54) SYSTEM AND METHOD FOR THE PREPARATION OF HOT AND COLD BEVERAGES
A24F 40/10	(73) Diadora S.p.A.	(73) Apiqe Holdings, LLC
(11) EP3106047	(72) Mason, Angelo	(72) VAN DE SLUIS, Jasper Jacobus
(21) EP16177005.2	POLEGATO MORETTI, Enrico	BOTH, Mattheus Pieter
(22) 15.07.2013	(74) ir. J.C. Volmer c.s.	(74) ir. J.C. Volmer c.s.
(54) ELECTRONIC VAPOUR PROVISION DEVICE	(31) UB20155851	(31) 2018745
(73) Nicoventures Trading Limited	(32) 24.11.2015	(32) 19.04.2017
(72) Lord, Christopher	(33) Italy	(33) Netherlands
(74) ir. W.J.J.M. Kempes	(47) 07.06.2023	(47) 31.05.2023
(31) 201212606	(51) A47C 1/032	(51) A47J 37/07
(32) 16.07.2012	(11) EP3581066	A47J 37/06
(33) United Kingdom	(21) EP19160349.7	(11) EP3536203
(47) 07.06.2023	(22) 01.03.2019	(21) EP19382172.5
(51) A24F 40/44	(54) OFFICE CHAIR WITH SYNCHRONOUSLY MOVABLE BACKREST AND SEAT	(22) 08.03.2019
A24F 40/46	(73) REXSITT Italia S.r.l.	(54) UNIVERSAL DEVICE FOR THE AUTOMATION OF SOLID FUEL BARBECUES AND OVENS
A24F 40/10	(72) COSTAGLIA, Massimo	(73) Boneless Grill, S.L.
(11) EP3446580	(74) ir. W.J.J.M. Kempes	(72) Regueiro Fernandez, Marcos
(21) EP18195423.1	(31) 201800002761 U	Beltrán Ruiz, Alfredo
(22) 15.07.2013	(32) 14.06.2018	Beltrán Rosa, Alfredo
(54) ELECTRONIC VAPOUR PROVISION DEVICE	(33) Italy	Campos Moral, Ruben
(73) Nicoventures Trading Limited	(47) 19.07.2023	(74) dr. A. Krebs
(72) LORD, Christopher	(51) A47F 1/12	(31) 201816121815
(74) ir. W.J.J.M. Kempes	A47F 1/10	201815912981
(31) 201212606	(11) EP3815580	(32) 05.09.2018
(32) 16.07.2012	(21) EP20203185.2	06.03.2018
(33) United Kingdom	(22) 21.10.2020	(33) United States of America
(47) 07.06.2023	(54) TABLEWARE TAKING DEVICE	United States of America
(51) A24F 40/60	(73) Kolor Magnetic (Shenzhen) Co., Ltd.	(47) 31.05.2023
A24F 40/42	(72) Lee, Ching Mou	(51) A47L 9/24
A24F 40/10	Lee, Chi Wai	(11) EP3858207
(11) EP3849352	(74) ir. W.J.J.M. Kempes	(21) EP21153755.0
	(31) 201911058251	
	(32) 01.11.2019	
	(33) China	

(22) 27.01.2021	DESCALO, Robby	(22) 01.04.2011
(54) ADAPTER DEVICE FOR A CORDLESS ELECTRIC VACUUM CLEANER	LEVY, Avi	(54) ROBOTIZED SURGERY SYSTEM WITH IMPROVED CONTROL
(73) New Ermes Europe S.r.l.	GILREATH, Mark	(73) Asensus Surgical Italia S.r.l.
(72) ROSCHI, Riccardo	AIZENFELD, Amram	(72) RUIZ MORALES, Emilio
(74) ir. A. Blokland c.s.	KRIVOPISK, Leonid	BRASSET, Damien
(31) 202000001555	KIRMA, Yaniv	INVERNIZZI, Paolo
(32) 28.01.2020	LEVI, Moshiko	(74) ir. H.Th. van den Heuvel c.s.
(33) Italy	(74) ir. A.R. Aalbers	(31) MI20100579
(47) 12.07.2023	(31) 201461925080 P	(32) 07.04.2010
(51) A47L 15/00	201361897896 P	(33) Italy
A47L 15/24	201361841863 P	(47) 31.05.2023
A47L 15/42	(32) 08.01.2014	(51) A61B 5/00
(11) EP3448222	31.10.2013	A61B 8/08
(21) EP17718788.7	01.07.2013	G06T 7/20
(22) 13.04.2017	(33) United States of America	(11) EP3678536
(54) CONVEYOR DISHWASHER AND METHOD FOR OPERATING A CONVEYOR DISHWASHER	United States of America	(21) EP18789268.2
(73) Illinois Tool Works Inc.	United States of America	(22) 06.09.2018
(72) DISCH, Harald	(47) 07.06.2023	(54) SYSTEM AND METHOD FOR MEASURING REAL-TIME BODY KINEMATICS
SCHREMPP, Martin	(51) A61B 1/00	(73) Texas Tech University System
(74) dr. W.A.H.M. Van Borm	A61B 1/05	(72) POL, Suhas
(31) 102016107872	A61B 1/12	SIZER, Phillip, S.
(32) 28.04.2016	A61M 3/02	GILBERT, Kerry, K.
(33) Germany	A61B 1/015	ELLIS, Richard
(47) 07.06.2023	A61M 13/00	(74) dr. A. Krebs
(51) A61B 1/00	A61M 1/00	(31) 201762554883 P
A61B 1/018	A61B 1/31	(32) 06.09.2017
(11) EP3817638	(11) EP3599975	(33) United States of America
(21) EP19805746.5	(21) EP18770424.2	(47) 09.08.2023
(22) 01.11.2019	(22) 19.03.2018	(51) A61B 5/03
(54) ATTACHMENTS FOR ENDOSCOPES	(54) COLON EVACUATION WITHOUT COLLAPSE	A61B 5/00
(73) Boston Scientific Medical Device Limited	(73) Motus GI Medical Technologies Ltd.	(11) EP3197349
(72) ANEJA, Harchetan Singh	(72) HASSIDOV, Noam	(21) EP15843218.7
RAJARATHNAM, Boopathi	LULEKO, Koby	(22) 28.09.2015
RAWAT, Shalin Singh	POMERANZ, Mark	(54) SYSTEMS, DEVICES AND METHODS FOR SENSING PHYSIOLOGIC DATA AND DRAINING AND ANALYZING BODILY FLUIDS
UPADHYAY, Swami	ARNON, Tzach	(73) Potrero Medical, Inc.
NEELAMEGAM, Venkatesh	KOCHAVI, Eyal	(72) BURNETT, Daniel R.
(74) ir. A.R. Aalbers	(74) ir. W.J.J.M. Kempes	SUTARIA, Saheel
(31) 201962834201 P	(31) 201762473407 P	HAMILTON, Marcie
201962834192 P	(32) 19.03.2017	TULLY, Griffith
201862768808 P	(33) United States of America	YEE, Alex
201862755024 P	(47) 07.06.2023	BOYD, Stephen
(32) 15.04.2019	(51) A61B 1/015	SKIELLER, Christina
15.04.2019	(11) EP3718466	LUXON, Evan S.
16.11.2018	(21) EP20169327.2	KEENAN, Rich
02.11.2018	(22) 20.09.2011	ZIEGLER, Mark
(33) United States of America	(54) ENDOSCOPE DISTAL SECTION COMPRISING A UNITARY FLUID CHANNELING COMPONENT	(74) dr. R.C. van Duijvenbode c.s.
United States of America	(73) EndoChoice, Inc.	(31) 201562175237 P
United States of America	(72) LEVI, Moshe	201562145241 P
United States of America	SALMAN, Golan	201562129899 P
(47) 14.06.2023	LEVY, Avi	201462085463 P
(51) A61B 1/00	KIRMA, Yaniv	201462076725 P
A61B 1/05	(74) ir. A.R. Aalbers	201462062924 P
A61B 1/06	(31) 38435410 P	201462056563 P
G02B 23/24	(32) 20.09.2010	201462056564 P
(11) EP3827728	(33) United States of America	PCT/US2015/010530
(21) EP20206456.4	(47) 07.06.2023	(32) 13.06.2015
(22) 27.06.2014	(51) A61B 3/00	09.04.2015
(54) CIRCUIT BOARD ASSEMBLY OF A MULTIPLE VIEWING ELEMENTS ENDOSCOPE	A61B 3/113	08.03.2015
(73) EndoChoice, Inc.	A61B 17/00	28.11.2014
(72) WIETH, Stephan	A61B 34/30	07.11.2014
AVRON, Jeruham	G06V 40/19	12.10.2014
SALMAN, Golan	G06F 3/01	28.09.2014
LEVIN, Victor	A61B 5/11	
	(11) EP3395251	
	(21) EP18177477.9	

28.09.2014	(32) 16.04.2019	Ovi, Gabriele
07.01.2015	18.04.2018	(74) dr. R.C. van Duijvenbode c.s.
(33) United States of America	(33) United States of America	(47) 31.05.2023
United States of America	United States of America	<hr/>
United States of America	(47) 14.06.2023	(51) A61G 12/00
United States of America	(51) A61C 8/00	A61G 13/10
United States of America	(11) EP3372190	(11) EP3883514
United States of America	(21) EP16804825.4	(21) EP20743606.4
United States of America	(22) 26.10.2016	(22) 14.07.2020
United States of America	(54) UNIT COMPRISING A DENTAL	(54) SUPPLY SYSTEM COMPRISING
World Intellectual Property Office (WIPO)	IMPLANT AND PROSTHETIC	A MAIN BODY WHICH HAS AN
(47) 19.07.2023	COMPONENTS, INCLUDING A	UNDERCUT
<hr/>	TRANSEPIITHELIAL SLEEVE WITH	(73) Drägerwerk AG & Co. KGaA
(51) A61B 6/02	AN ANTI-ROTATIONAL UPPER	(72) FINKE, Maja
A61B 6/12	CONNECTION	NANDZIK, Andreas
A61B 6/00	(73) Biotechnology Institute, I Mas D, S.L.	HOLST, Uwe
A61B 6/04	(72) ANITUA ALDECOA, Eduardo	MARTIN, Thomas
(11) EP3881769	(74) J.M.H. Duyver lic.	BEHLER, Maximilian
(21) EP21161589.3	(31) 201531601	DASKE, Jochen
(22) 09.03.2021	(32) 06.11.2015	(74) ir. F.A. Geurts c.s.
(54) METHODS AND SYSTEMS FOR	(33) Spain	(31) 102019005875
BIOPSY NEEDLE RECONSTRUCTION	(47) 05.07.2023	(32) 22.08.2019
ERROR ASSESSMENT	<hr/>	(33) Germany
(73) GE Precision Healthcare LLC	(51) A61F 2/16	(47) 07.06.2023
(72) CALISTI, Serge	(11) EP3782584	<hr/>
VANCAMBERG, Laurence	(21) EP20192741.5	(51) A61H 19/00
CORSINO ESPINO, Jorge	(22) 12.05.2014	A61H 9/00
IODACHE, Razvan	(54) MODULAR INTRAOCULAR LENS	A61H 23/02
DELMAS, Charlotte	DESIGNS	(11) EP3267960
(74) dr. R.C. van Duijvenbode c.s.	(73) The Regents of the University of	(21) EP15748202.7
(31) 202016820049	Colorado, a body corporate	(22) 24.07.2015
(32) 16.03.2020	Alcon Inc.	(54) STIMULATION DEVICE HAVING AN
(33) United States of America	(72) MANDAVA, Naresh	EXTENSION
(47) 02.08.2023	KAHOOK, Malik, Y.	(73) Novoluto GmbH
<hr/>	ATKINSON, Robert, E.	(72) LENKE, Michael
(51) A61B 17/34	SUSSMAN, Glenn	(74) dr. ir. G.J.C. Verdijck c.s.
A61B 1/00	MCLEAN, Paul	(31) 102015103694
A61B 1/015	(74) ir. W.J.J.M. Kempes	(32) 13.03.2015
A61B 1/05	(31) 201313969115	(33) Germany
(11) EP3370632	201361830491 P	(47) 07.06.2023
(21) EP16863107.5	(32) 16.08.2013	<hr/>
(22) 04.11.2016	03.06.2013	(51) A61H 19/00
(54) VISUALLY ASSISTED ENTRY	(33) United States of America	A61H 9/00
OF A VERESS NEEDLE WITH A	United States of America	A61H 23/02
TAPERED VIDEOSCOPE FOR	(47) 12.07.2023	(11) EP3400926
MICROLAPAROSCOPY	<hr/>	(21) EP18175171.0
(73) Enable, Inc.	(51) A61F 5/44	(22) 24.07.2015
(72) SAVVOURAS, Odyssefs, Ath.	A61F 5/442	(54) STIMULATION DEVICE WITH
HAUG, Ulrich, R.	A61F 5/445	EXTENSION
KOTSEROGLOU, Theofilos	(11) EP3962422	(73) Novoluto GmbH
PAPADEMETRIOU, Stephanos	(21) EP20722968.3	(72) LENKE, Michael
(74) ir. J.D. de Zeeuw	(22) 15.04.2020	(74) dr. ir. G.J.C. Verdijck c.s.
(31) 201514935325	(54) METHOD OF MAKING A DRAINABLE	(31) 102015103694
(32) 06.11.2015	OSTOMY POUCH	(32) 13.03.2015
(33) United States of America	(73) Hollister Incorporated	(33) Germany
(47) 07.06.2023	(72) FRISKE, Timothy, A.	(47) 07.06.2023
<hr/>	WEINBERG, Robert, J.	<hr/>
(51) A61B 18/18	(74) ir. W.J.J.M. Kempes	(51) A61J 7/04
(11) EP3781063	(31) 201962842721 P	G07F 17/00
(21) EP19720349.0	(32) 03.05.2019	(11) EP3518862
(22) 17.04.2019	(33) United States of America	(21) EP17785077.3
(54) MICROWAVE TISSUE ABLATION	(47) 02.08.2023	(22) 28.09.2017
PROBE WITH NON-METALLIC	<hr/>	(54) MEDICATION APPARATUS
INTRODUCER SET	(51) A61G 3/06	(73) Digital Medical Technologies, LLC (D/B/A
(73) Boston Scientific Scimed Inc.	(11) EP3628294	Adheretech)
(72) CAO, Hong	(21) EP18196589.8	(72) STEIN, Joshua D.
HARRISON, Kent David	(22) 25.09.2018	GUSZ, John D.
OSTROOT, Timothy A.	(54) WHEELCHAIR LIFT WITH HIGH	LANGHAUSER, John W.
(74) ir. A.R. Aalbers	STABILITY	MORENA, Michael C.
(31) 201916385994	(73) Autolift S.r.l.	(74) ir. H.Th. van den Heuvel c.s.
201862659519 P	(72) Galligani, Marco	(31) 201662414261 P
		201662407656 P

201662400728 P	(73) Renibus Therapeutics, Inc.	(47) 16.08.2023
(32) 28.10.2016	(72) KEYSER, Donald Jeffrey	(51) A61K 9/48
13.10.2016	GUILLEM, Alvaro F.	A61K 31/4178
28.09.2016	ZAGER, Richard A.	A61P 11/00
(33) United States of America	(74) dr. R.C. van Duijvenbode c.s.	(11) EP4138789
United States of America	(31) 201962812028 P	(21) EP21724011.8
United States of America	(32) 28.02.2019	(22) 23.04.2021
(47) 07.06.2023	(33) United States of America	(54) NEW DELAYED RELEASE
(51) A61K 8/42	(47) 31.05.2023	COMPOSITION FOR PERORAL
A61K 8/34	(51) A61K 9/00	ADMINISTRATION
A61K 31/164	A61K 47/18	(73) Vicore Pharma AB
A61P 43/00	A61K 9/14	(72) CAMBER, Ola
A61Q 19/00	A61K 31/465	JOHANSSON, Christina
A61Q 19/02	(11) EP3393451	(74) ir. W.J.J.M. Kempes
(11) EP3708148	(21) EP16812864.3	(31) 202006074
(21) EP20170770.0	(22) 08.12.2016	(32) 24.04.2020
(22) 02.04.2015	(54) FLAVOURED NICOTINE POWDER	(33) United Kingdom
(54) MELANOGENESIS INHIBITOR	(73) Philip Morris Products S.A.	(47) 07.06.2023
COMPRISING D-PANTOTHENYL	(72) ZUBER, Gerard	(51) A61K 31/137
ALCOHOL, AND SKIN-WHITENING	(74) dr. W.A.H.M. Van Borm	A61K 45/06
COSMETIC CONTAINING SAME	(31) 15202728	A61K 9/20
MELANOGENESIS INHIBITOR	(32) 24.12.2015	A61P 31/04
(73) Pola Chemical Industries, Inc.	(33) European Patent Office (EPO)	A61P 37/06
(72) KONDO, Chihiro	(47) 19.07.2023	A61P 11/16
MORI, Yasuhito	(51) A61K 9/20	A61P 37/00
SASSA, Shoko	A61K 9/28	A61P 35/00
YOKOYAMA, Kouji	A61K 38/45	A61P 31/00
SAITOH, Yuko	A23L 33/00	(11) EP3678648
(74) J.M.H. Duyver lic.	A61K 45/06	(21) EP18779156.1
(31) 2014076693	A61K 31/785	(22) 10.09.2018
(32) 03.04.2014	A61P 35/00	(54) METHODS OF USING DIPIVEFRIN
(33) Japan	C07C 237/10	(73) INSIGNIS THERAPEUTICS, INC.
(47) 19.07.2023	C07C 237/06	(72) ZHANG, Mingbao
(51) A61K 9/00	C07C 237/22	(74) dr. W.A.H.M. Van Borm
A61K 9/06	C07C 53/126	(31) 201762555854 P
A61K 31/40	(11) EP3785706	(32) 08.09.2017
A61K 47/10	(21) EP20196042.4	(33) United States of America
A61K 47/12	(22) 20.03.2017	(47) 26.07.2023
A61K 47/14	(54) BIOAVAILABLE POLYAMINES	(51) A61K 31/4439
A61K 47/34	(73) Aminex Therapeutics, Inc.	A61P 1/04
A61K 47/38	(72) BURNS, Mark R.	A61K 47/44
A61P 43/00	(74) ir. W.J.J.M. Kempes	A61K 9/10
(11) EP3487475	(31) 201662313657 P	(11) EP3386507
(21) EP17831882.0	(32) 25.03.2016	(21) EP16871822.9
(22) 20.07.2017	(33) United States of America	(22) 08.12.2016
(54) FORMULATION FOR SOFT	(47) 07.06.2023	(54) METHODS AND COMPOSITIONS FOR
ANTICHOLINERGIC ANALOGS	(51) A61K 9/24	TREATING GASTRIC ULCERS
(73) Bodor Laboratories, Inc.	A61K 31/137	(73) Luoda Pharma Limited
(72) BODOR, Nicholas, S.	A61K 31/192	(72) BOVA, Nicholas
ANGULO, David	A61K 31/485	GARG, Sanjay
KOLENG, John, J.	A61P 29/00	PAGE, Stephen
(74) ir. H.A. Witmans c.s.	A61K 9/02	(74) dr. W.A.H.M. Van Borm
(31) 201662365037 P	(11) EP3515413	(31) 2015905078
(32) 21.07.2016	(21) EP17778156.4	(32) 08.12.2015
(33) United States of America	(22) 25.09.2017	(33) Australia
(47) 07.06.2023	(54) EXTENDED RELIEF DOSAGE FORM	(47) 07.06.2023
(51) A61K 9/00	(73) The Procter & Gamble Company	(51) A61K 31/4439
A61K 9/06	(72) ENTWISLE, John, Richard	C12N 15/113
A61K 33/26	BALAN, Guhan	C12N 15/115
A61K 47/02	CLARK, Jonathan, E.	A61K 31/4545
A61P 7/08	ANNES, Daren	A61K 31/713
A61P 13/12	LUDHER, Baltej	A61P 11/00
(11) EP3930686	STELLA, Mark, Edward	C07K 16/28
(21) EP20717359.2	CARR, Andrew, Nicholas	(11) EP3610018
(22) 28.02.2020	(74) ir. W.J.J.M. Kempes	(21) EP18784915.3
(54) NOVEL IRON COMPOSITIONS AND	(31) 201662399511 P	(22) 16.04.2018
METHODS OF MAKING AND USING	(32) 26.09.2016	(54) COMPOSITIONS AND METHODS FOR
THE SAME	(33) United States of America	TREATING PULMONARY FIBROSIS

<p>(73) The United States of America as represented by the Department of Veterans Affairs Arizona Board of Regents on Behalf of the University of Arizona</p> <p>(72) GARCIA, Joe, G.N. HECKER, Louise</p> <p>(74) dr. ir. F.M. van Bouwelen</p> <p>(31) 201762485863 P (32) 14.04.2017 (33) United States of America (47) 07.06.2023</p> <hr/> <p>(51) A61K 35/28 A61P 9/10 C12N 5/0775</p> <p>(11) EP3659612 (21) EP19202650.8 (22) 15.08.2013</p> <p>(54) PLURIPOTENT STEM CELL THAT INDUCES REPAIR AND REGENERATION AFTER MYOCARDIAL INFARCTION TECHNICAL FIELD</p> <p>(73) Life Science Institute, Inc. Gifu University Tohoku University</p> <p>(72) YOSHIDA, Masanori MINATOBUCHI, Shinya DEZAWA, Mari</p> <p>(31) 2012181029 PCT/JP2013/054049</p> <p>(32) 17.08.2012 19.02.2013</p> <p>(33) Japan World Intellectual Property Office (WIPO)</p> <p>(47) 07.06.2023</p> <hr/> <p>(51) A61K 35/32 A61L 27/36 A61L 27/38 A61B 17/16 A61J 1/14 A61J 1/20 C12M 1/26 C12M 1/33 A61B 17/88 A61M 1/00</p> <p>(11) EP3294306 (21) EP16793328.2 (22) 09.05.2016</p> <p>(54) BONE FRAGMENT AND TISSUE PROCESSING SYSTEM</p> <p>(73) ForCyte Medical, LLC Cleveland Clinic Foundation</p> <p>(72) ASSELL, Robert MUSCHLER, George FREEMAN, Andy</p> <p>(31) 201562193451 P 201562158574 P</p> <p>(32) 16.07.2015 08.05.2015</p> <p>(33) United States of America United States of America</p> <p>(47) 26.07.2023</p> <hr/> <p>(51) A61K 38/08 A61P 31/10</p> <p>(11) EP3920954 (21) EP20706848.7 (22) 05.02.2020</p>	<p>(54) ANTIMICROBIAL PEPTIDE FOR ONYCHOMYCOSIS</p> <p>(73) CBMR Scientific Nanoscience B.V.</p> <p>(72) BOEKHOUT, Teunis BROERTJES, Paul BROUWER, Cornelis Peter Johannes Maria</p> <p>(74) ir. G.J.M. Verhees</p> <p>(31) 2022520 (32) 06.02.2019 (33) Netherlands (47) 07.06.2023</p> <hr/> <p>(51) A61K 38/17 C07K 14/47 A61P 35/00</p> <p>(11) EP3737399 (21) EP19735723.9 (22) 03.01.2019</p> <p>(54) ATF5 PEPTIDE VARIANTS AND USES THEREOF</p> <p>(73) Sapience Therapeutics, Inc.</p> <p>(72) KAPPEL, Barry, Jay ROTOLO, Jimmy, Andrew MERUTKA, Gene</p> <p>(74) ir. H.A. Witmans c.s.</p> <p>(31) 201862613083 P (32) 03.01.2018 (33) United States of America (47) 26.07.2023</p> <hr/> <p>(51) A61K 39/015 C12N 1/10</p> <p>(11) EP3137106 (21) EP15786133.7 (22) 01.05.2015</p> <p>(54) INFECTIOUS PLASMODIUM SPOOROZOITES GROWN IN VITRO</p> <p>(73) Sanaria Inc.</p> <p>(72) HOFFMAN, Stephen L. EAPPEN, Abraham G.</p> <p>(74) J.M.H. Duyver lic.</p> <p>(31) 201462016981 P 201461987834 P</p> <p>(32) 25.06.2014 02.05.2014</p> <p>(33) United States of America United States of America</p> <p>(47) 05.07.2023</p> <hr/> <p>(51) A61K 39/395 C07K 16/28 C07K 16/30 C07K 16/44 C07K 16/46</p> <p>(11) EP3515487 (21) EP17784089.9 (22) 22.09.2017</p> <p>(54) BI SPECIFIC ANTI-MUC16-CD3 ANTIBODIES AND ANTI-MUC16 DRUG CONJUGATES</p> <p>(73) Regeneron Pharmaceuticals, Inc.</p> <p>(72) SMITH, Eric NITTOLI, Thomas KIRSHNER, Jessica R. LIU, Yashu COETZEE, Sandra HABER, Lauric CRAWFORD, Alison KELLY, Marcus</p> <p>(74) dr. R.C. van Duijvenbode c.s.</p>	<p>(31) 201762558711 P 201662399249 P</p> <p>(32) 14.09.2017 23.09.2016</p> <p>(33) United States of America United States of America</p> <p>(47) 19.07.2023</p> <hr/> <p>(51) A61K 47/65 C07K 16/46 A61K 47/68 A61P 35/00 C07K 16/28 C07K 5/027 C07K 16/32</p> <p>(11) EP3765525 (21) EP19766478.2 (22) 12.03.2019</p> <p>(54) ANTI-HER2 BIPARATOPIC ANTIBODY-DRUG CONJUGATES AND METHODS OF USE</p> <p>(73) Zymeworks BC Inc.</p> <p>(72) RICH, James R. DAVIES, Rupert H. HAMBLETT, Kevin ROWSE, Gerald J. BARNSCHER, Stuart D. FUNG, Vincent K. C.</p> <p>(74) ir. W.J.J.M. Kempes</p> <p>(31) 201862743884 P 201862658477 P 201862642483 P</p> <p>(32) 10.10.2018 16.04.2018 13.03.2018</p> <p>(33) United States of America United States of America United States of America</p> <p>(47) 19.07.2023</p> <hr/> <p>(51) A61L 27/16 A61L 27/36 A61F 2/02 A61M 5/00 A61M 31/00 A61M 37/00 C12N 5/00</p> <p>(11) EP3666297 (21) EP20155639.6 (22) 08.11.2017</p> <p>(54) CELL ENCAPSULATION DEVICES CONTAINING STRUCTURAL SPACERS</p> <p>(73) W. L. Gore &amp; Associates, Inc. W.L. Gore &amp; Associates GmbH</p> <p>(72) CULLY, Edward, H. ZAMBOTTI, Lauren PARSONS, Bernadette DRUMHELLER, Paul, D.</p> <p>(74) ir. W.J.J.M. Kempes</p> <p>(31) 201715806099 201662419148 P</p> <p>(32) 07.11.2017 08.11.2016</p> <p>(33) United States of America United States of America</p> <p>(47) 14.06.2023</p> <hr/> <p>(51) A61M 15/06 G01N 21/3504 A24F 40/51 G01J 1/08</p>
---	--	---

G01J 3/10	A61M 39/06	(74) ir. J.D. de Zeeuw
G01J 3/42	B29K 27/18	(31) 202000444
G01N 15/06	A61B 17/22	(32) 13.01.2020
A24F 47/00	B29K 75/00	(33) United Kingdom
B05B 12/08	B29L 31/00	(47) 31.05.2023
A24F 40/10	(11) EP3419528	(51) A61N 1/04
A24F 40/70	(21) EP17757352.4	A61N 1/39
A61M 11/04	(22) 24.02.2017	A61N 1/36
G01N 15/00	(54) ENHANCED FLEXIBILITY	(11) EP3307152
(11) EP3509446	NEUROVASCULAR CATHETER	(21) EP16808267.5
(21) EP17746132.4	(73) Incept, LLC	(22) 09.06.2016
(22) 02.08.2017	(72) RIMSA, Joseph	(54) MULTIVECTOR PATIENT CONTACT
(54) AEROSOL-GENERATING DEVICE	KHOSRAVI, Farhad	INTERFACE
WITH SPECTROMETER FOR	YANG, Yi	(73) Cardio Thrive, Inc
AEROSOL ANALYSIS	YOUNG, Lisa M.	Mayo Foundation for Medical Education
(73) Philip Morris Products S.A.	(74) ir. A.R. Aalbers	and Research
(72) BESSANT, Michel	(31) 201762443595 P	(72) SAVAGE, Walter, T.
(74) dr. W.A.H.M. Van Borm	201662299418 P	RAYMOND, Douglas, M.
(31) 16188321	(32) 06.01.2017	GRAY, Peter, D.
(32) 12.09.2016	24.02.2016	SAVAGE, Shelley, J.
(33) European Patent Office (EPO)	(33) United States of America	(74) ir. H.Th. van den Heuvel c.s.
(47) 26.07.2023	United States of America	(31) 201514736180
(51) A61M 25/00	(47) 07.06.2023	(32) 10.06.2015
A61F 5/44	(51) A61M 31/00	(33) United States of America
A61M 27/00	A61H 19/00	(47) 31.05.2023
A61M 39/22	(11) EP3082764	(51) A62C 31/02
A61F 5/451	(21) EP14872721.7	A62C 31/00
(11) EP3478353	(22) 15.12.2014	A62C 35/68
(21) EP17740183.3	(54) DEVICE FOR INSERTING	F23K 5/18
(22) 29.06.2017	LUBRICATING CAPSULE	B05B 15/00
(54) URINARY CATHETER WITH SEALED	(73) Gallant, Esther	B01D 35/02
CHAMBER	(72) Gallant, Esther	B05B 15/40
(73) Hollister Incorporated	(74) J.M.H. Duyver lic.	(11) EP3427799
(72) FLETTER, Paul, C.	(31) 201314107955	(21) EP18187857.0
(74) ir. W.J.J.M. Kempes	(32) 16.12.2013	(22) 07.04.2015
(31) 201662356295 P	(33) United States of America	(54) NOZZLE APPARATUS COMPRISING A
(32) 29.06.2016	(47) 07.06.2023	FILTER
(33) United States of America	(51) A61M 39/06	(73) Rigdeluge Global Limited
(47) 02.08.2023	(11) EP3595763	(72) Garden, Ian
(51) A61M 25/00	(21) EP18710229.8	(74) dr. W.A.H.M. Van Borm
A61F 5/44	(22) 23.02.2018	(31) 201407584
A61M 39/10	(54) HEMOSTASIS VALVES AND	201406174
(11) EP2908897	METHODS FOR MAKING AND USING	(32) 30.04.2014
(21) EP13715042.1	HEMOSTASIS VALVES	04.04.2014
(22) 14.03.2013	(73) Boston Scientific Medical Device Limited	(33) United Kingdom
(54) INTERMITTENT URINARY CATHETER	(72) PEPIN, Henry J.	United Kingdom
ASSEMBLY	AGRAWAL, Sumit	(47) 31.05.2023
(73) Hollister Incorporated	BHATNAGAR, Mayank	(51) A63B 71/06
(72) MURRAY, Michael, G.	REDDY, Somashekar	G09F 23/00
HANNON, David	TOMAR, Peeyush	A63B 21/072
HENEGHAN, Brendan, J.	O'FLYNN, Alan James	(11) EP3413984
FOLEY, Adam, J.	(74) ir. A.R. Aalbers	(21) EP17709345.7
HENRY, Jerome, A.	(31) 201762470659 P	(22) 12.01.2017
(74) ir. W.J.J.M. Kempes	(32) 13.03.2017	(54) DUMBELLS
(31) 201261716176 P	(33) United States of America	(73) Wilhelm, Andreas
(32) 19.10.2012	(47) 14.06.2023	Missal, Valerij
(33) United States of America	(51) A61M 39/20	(72) Wilhelm, Andreas
(47) 16.08.2023	A61M 5/50	Missal, Valerij
(51) A61M 25/00	B65D 75/58	(74) dr. R.C. van Duijvenbode c.s.
A61M 25/01	B65D 41/34	(31) 102016201858
A61B 17/00	(11) EP3851394	(32) 08.02.2016
A61M 29/00	(21) EP21150420.4	(33) Germany
A61B 6/00	(22) 06.01.2021	(47) 31.05.2023
A61M 1/00	(54) TAMPER EVIDENT CAP	(51) A63F 13/63
B29C 41/14	(73) GBUK Group Limited	A63F 13/798
A61B 17/3203	(72) COWAN, Joseph	A63F 13/35
A61B 17/3207	ALLSOPP, Ross	(11) EP3546037
A61M 31/00	SCARD, Nicholas	(21) EP18215655.4

(22) 21.12.2018	(31) 201710130	(72) MOREDOCK, James G
(54) CONTENT GENERATION SYSTEM	(32) 26.06.2017	EHRENBERG, Eric L
(73) Sony Interactive Entertainment Inc.	(33) United Kingdom	(74) ir. W.J.J.M. Kempes
(72) ANDALL, Hogarth	(47) 26.07.2023	(31) 202117356973
(74) ir. W.J.J.M. Kempes	(51) B01D 15/20	(32) 24.06.2021
(31) 201804993	G01N 30/56	(33) United States of America
(32) 28.03.2018	(11) EP3519072	(47) 12.07.2023
(33) United Kingdom	(21) EP17780695.7	(51) B01D 61/14
(47) 02.08.2023	(22) 29.09.2017	B01D 39/16
(51) A63G 31/00	(54) METHOD AND SYSTEM FOR	B01D 67/00
A63G 3/00	TRANSFERRING SEPARATION RESIN	B01D 71/56
A63G 21/18	(73) Cytiva Sweden AB	B01D 69/06
B05B 17/08	(72) AVALLIN, Johan, Fredrik	A61L 2/02
B63B 3/08	(74) dr. R.C. van Duijvenbode c.s.	(11) EP2928577
B63B 35/38	(31) 201701576	(21) EP13863417.5
(11) EP3634595	201616702	(22) 10.12.2013
(21) EP18809127.6	(32) 31.01.2017	(54) ULTRAPOROUS NANOFIBER MATS
(22) 30.05.2018	30.09.2016	AND USES THEREOF
(54) TAMPER-RESISTANT WATER	(33) United Kingdom	(73) EMD Millipore Corporation
DISTRIBUTION SYSTEM AND	United Kingdom	(72) PATEL, Jigneshkumar
DEVICES FOR WATERPARK	(47) 26.07.2023	POTTY, Ajish
(73) Connelly Skis, LLC	(51) B01D 21/24	KOZLOV, Mikhail
(72) JOHNSON, David C.	B01D 21/30	TKACIK, Gabriel
(74) drs. A.A. Jilderda	C02F 3/28	KAS, Onur, Y.
(31) 201762512708 P	B01D 21/00	(74) ir. W.J.J.M. Kempes
(32) 30.05.2017	(11) EP3990148	(31) 201261735275 P
(33) United States of America	(21) EP20733651.2	(32) 10.12.2012
(47) 14.06.2023	(22) 24.06.2020	(33) United States of America
(51) B01D 15/14	(54) SPIRAL-SHAPED SEPARATION	(47) 05.07.2023
B01D 15/18	DEVICE FOR FLUID PURIFICATION	(51) B01D 71/28
B01D 15/36	DEVICE	B01D 71/32
B01D 15/42	(73) Paques I.P. B.V.	B01D 19/00
B01J 41/04	(72) MOZES, Erik	B01D 69/02
B01J 41/20	ABMA, Wiebe	(11) EP3296011
B01J 47/022	FABER, Jelle	(21) EP17187921.6
C07H 1/06	ROZENDAL, René Alexander	(22) 25.08.2017
C07H 5/02	DRIESSEN, Wilhelmus Johannes	(54) MEMBRANES COMPRISING
C07B 59/00	Bernardus Maria	FLUOROPOLYMERS
(11) EP3218333	(74) dr. R.C. van Duijvenbode c.s.	(73) Pall Corporation
(21) EP15794902.5	(31) 19182934	(72) ONYEMAUWA, Frank Okezie
(22) 12.11.2015	(32) 27.06.2019	AIT-HADDOU, Hassan
(54) FLUORIDE TRAPPING	(33) European Patent Office (EPO)	LABRECHE, Ying
ARRANGEMENT	(47) 09.08.2023	(74) ir. H.J.G. Lips c.s.
(73) GE Healthcare Limited	(51) B01D 29/21	(31) 201615267652
(72) FRANCI, Xavier	B01D 69/06	(32) 16.09.2016
LIGNON, Steve	B01D 46/52	(33) United States of America
LANGE, Audrey, Marie	(11) EP3643381	(47) 07.06.2023
VERBRUGGE, Nicolas	(21) EP19201954.5	(51) B01F 25/431
(74) dr. R.C. van Duijvenbode c.s.	(22) 08.10.2019	B01F 33/81
(31) 201420094	(54) SUPPORT AND DRAINAGE MATERIAL,	F15D 1/02
(32) 12.11.2014	FILTER, AND METHOD OF USE	F17D 3/18
(33) United Kingdom	(73) Pall Corporation	(11) EP3411135
(47) 07.06.2023	(72) BAIR, James A.	(21) EP17881461.2
(51) B01D 15/18	SORENSEN, Thomas M.	(22) 29.09.2017
B01D 15/34	(74) ir. H.J.G. Lips c.s.	(54) STATIC MIXER FOR FLUID FLOW IN A
C07K 1/16	(31) 201816169564	PIPELINE
(11) EP3645139	(32) 24.10.2018	(73) Canada Pipeline Accessories, Co. Ltd.
(21) EP18711827.8	(33) United States of America	(72) SELIRIO, Raphael
(22) 23.02.2018	(47) 07.06.2023	SAWCHUK, Daniel
(54) PERIODIC COUNTERCURRENT	(51) B01D 46/24	SELIRIO, Reginald
CHROMATOGRAPHY SEPARATION OF	B01D 45/16	(74) ir. H.J.G. Lips c.s.
PLASMIDS	B01D 50/20	(31) 201762506668 P
(73) Cytiva BioProcess R&D AB	(11) EP4108311	201662432732 P
(72) SENDABO, Sara	(21) EP21187308.8	(32) 16.05.2017
BLOM, Hans	(22) 22.07.2021	12.12.2016
SKOGLAR, Helena	(54) SELF-CLEANING AIR FILTRATION	(33) United States of America
AKERBLOM, Anna	APPARATUS AND METHOD	United States of America
(74) dr. R.C. van Duijvenbode c.s.	(73) The Sy-Klone Company, LLC	(47) 16.08.2023

(51) B01F 33/81	(11) EP3081299	201662297917 P
B01F 25/43	(21) EP14869123.1	(32) 22.01.2017
F17D 3/18	(22) 10.12.2014	21.02.2016
(11) EP3967392	(54) CATALYST FOR HYDROCRACKING	(33) United States of America
(21) EP21197759.0	AND HYDROCARBON PRODUCTION	United States of America
(22) 29.09.2017	METHOD	(47) 05.07.2023
(54) PRE-MIXER FOR MIXING FLUID FLOW	(73) Idemitsu Kosan Co., Ltd	(51) B05B 15/18
IN A PIPELINE	(72) FUKASAWA, Shun	B23K 10/02
(73) Canada Pipeline Accessories, Co. Ltd.	(74) dr. ir. F.M. van Bouwelen	H05H 1/28
(72) SAWCHUK, Daniel	(31) 2013255953	H05H 1/34
SELIRIO, Reginald	(32) 11.12.2013	B05B 7/22
SELIRIO, Raphael	(33) Japan	C23C 4/134
(74) ir. H.J.G. Lips c.s.	(47) 09.08.2023	(11) EP3230006
(31) 201762506668 P	(51) B02C 4/02	(21) EP15868541.2
201662432732 P	B02C 4/28	(22) 08.12.2015
(32) 16.05.2017	B02C 25/00	(54) CORROSION PROTECTION FOR
12.12.2016	(11) EP3972737	PLASMA GUN NOZZLES AND
(33) United States of America	(21) EP21730515.0	METHOD OF PROTECTING GUN
United States of America	(22) 28.05.2021	NOZZLES
(47) 16.08.2023	(54) METHOD FOR MONITORING A HIGH-	(73) Oerlikon Metco (US) Inc.
(51) B01F 33/84	PRESSURE ROLLER GRINDER	(72) MOLZ, Ronald J.
B01F 33/85	(73) Maschinenfabrik Köppern GmbH. & Co.	HAWLEY, Dave
B01F 29/30	KG	COLMENARES, Jose
B01F 35/22	(72) BUCHMEIER, Max	(74) dr. R.C. van Duijvenbode c.s.
B01F 35/42	DE WELDIGE, Eggert	(31) 201414568833
(11) EP3903920	(74) mr. ir. J. van Breda c.s.	(32) 12.12.2014
(21) EP21169572.1	(31) 102020114815	(33) United States of America
(22) 21.04.2021	(32) 04.06.2020	(47) 07.06.2023
(54) AN AUTOMATIC PLANT FOR	(33) Germany	(51) B06B 1/02
PREPARING PAINTS AND THE LIKE	(47) 31.05.2023	B06B 1/06
(73) Dromont S.p.A.	(51) B03D 1/01	G01S 15/89
(72) DROCCO, Luca	C07C 213/00	(11) EP3849713
(74) ir. A. Blokland c.s.	(11) EP3962657	(21) EP19765279.5
(31) 202000009547	(21) EP20720099.9	(22) 11.09.2019
(32) 30.04.2020	(22) 27.04.2020	(54) ULTRASOUND IMAGING DEVICE
(33) Italy	(54) METHOD FOR FLOTATION OF A	(73) Moduleus
(47) 19.07.2023	SILICATE-CONTAINING IRON ORE	(72) BAILLY, Adrien
(51) B01J 8/02	WITH A CATIONIC COLLECTOR	(74) ir. W.J.J.M. Kempes
C01B 3/12	(73) BASF SE	(31) 1858199
C01B 3/34	(72) MICHAJLOVSKI, Alexej	(32) 13.09.2018
C01B 3/58	PANCHENKO, Alexander	(33) France
(11) EP3319720	ERNST, Martin	(47) 28.06.2023
(21) EP16738512.9	DREBOV, Nedko Stefanov	(51) B07B 1/15
(22) 07.07.2016	BUDEMBERG, Gabriela	(11) EP3771499
(54) CHEMICAL LOOPING	KUELZER, Tamara	(21) EP20188667.8
(73) University of Newcastle Upon Tyne	PHAN, Long	(22) 30.07.2020
(72) METCALFE, Ian	VON KROG, Sylvia	(54) DISC SCREEN FOR SEPARATING
(74) dr. A. Krebs	ZIPFEL, Hannes Ferdinand	SOLID MATERIALS
(31) 201511855	(74) ir. W.J.J.M. Kempes	(73) Ecostargreen S.r.l.
(32) 07.07.2015	(31) 19171801	(72) CAPPOZZO, Domenico
(33) United Kingdom	(32) 30.04.2019	(74) ir. W.J.J.M. Kempes
(47) 07.06.2023	(33) European Patent Office (EPO)	(31) 201900013791
(51) B01J 23/883	(47) 14.06.2023	(32) 02.08.2019
B01J 29/16	(51) B05B 7/00	(33) Italy
B01J 29/78	B05B 7/06	(47) 23.08.2023
B01J 37/18	B05B 7/24	(51) B07B 1/26
C07C 1/22	B05B 12/00	B01D 33/00
C07C 9/22	B05B 7/08	(11) EP3277438
C10G 3/00	(11) EP3566780	(21) EP16715362.6
C07B 61/00	(21) EP19169553.5	(22) 29.01.2016
B01J 21/04	(22) 20.02.2017	(54) SCREENING DEVICE AND METHOD
B01J 29/10	(54) ON-DEMAND HIGH VOLUME, LOW	FOR SEPARATING DRY GRANULAR
B01J 37/04	PRESSURE SPRAY SYSTEM	MATERIAL
B01J 21/10	(73) Graco Minnesota Inc.	(73) Oijense Bovendijk B.V.
B01J 23/887	(72) OLSON, Diane L	(72) SCHENK, Koos Jacobus
B01J 35/10	SVENDSEN, John M	(74) ir. A. Blokland c.s.
B01J 37/00	(74) ir. W.J.J.M. Kempes	(31) 2014210
B01J 37/02	(31) 201762449078 P	(32) 29.01.2015



(33) Netherlands	(51) B29C 33/38	B32B 38/14
(47) 12.07.2023	G03F 7/00	B41M 5/36
(51) B25B 27/073	B22C 9/00	B41J 29/40
B25B 27/06	B22D 23/00	D01F 8/04
(11) EP3670086	B22D 29/00	B33Y 10/00
(21) EP18815097.3	(11) EP3377290	B33Y 30/00
(22) 31.05.2018	(21) EP16865873.0	B33Y 70/00
(54) SLEEVE PART EXTRACTION JIG	(22) 01.11.2016	B29C 70/38
(73) Ii, Noriaki	(54) CONTROL OF SURFACE PROPERTIES	(11) EP3444102
KYOOKA Co., Ltd.	OF PRINTED THREE-DIMENSIONAL	(21) EP18179445.4
(72) Ii, Noriaki	STRUCTURES	(22) 05.06.2014
ADACHI, Yutaka	(73) Orbotech Ltd.	(54) METHOD AND APPARATUS FOR
KYOOKA, Yoshiteru	(72) ZENOU, Michael	FIBER REINFORCED ADDITIVE
(74) dr. R.C. van Duijvenbode c.s.	KOTLER, Zvi	MANUFACTURING
(47) 02.08.2023	(74) ir. W.J.J.M. Kempes	(73) Markforged, Inc.
(51) B25J 11/00	(31) 201562258468 P	(72) MARK, Gregory Thomas
B25J 13/08	(32) 22.11.2015	(74) dr. A. Krebs
B25J 9/16	(33) United States of America	(31) 201414222318
B25J 15/00	(47) 02.08.2023	201361902256 P
B25J 19/02	(51) B29C 51/42	201361881946 P
B25J 9/00	B29C 51/46	201361878029 P
B25J 15/04	B65B 7/16	201361847113 P
B22D 41/14	B65B 9/04	201361831600 P
B22D 45/00	B65B 47/02	(32) 21.03.2014
B22D 41/00	B65B 47/04	10.11.2013
(11) EP3459693	B65B 47/10	24.09.2013
(21) EP18196387.7	B65B 57/02	15.09.2013
(22) 24.09.2018	B29C 51/26	17.07.2013
(54) SEMI-AUTOMATED SYSTEM AND	B29C 65/00	05.06.2013
METHOD FOR PERFORMING	B65B 55/00	(33) United States of America
MAINTENANCE OPERATIONS OF A	B65B 61/06	United States of America
DRAWER OF A LADLE IN SAFETY	(11) EP3900915	United States of America
CONDITIONS	(21) EP21163854.9	United States of America
(73) BM Group Holding S.p.A.	(22) 22.03.2021	United States of America
Scuola Superiore di Studi Universitari e	(54) WORK STATION WITH MULTILAYER	United States of America
di Perfezionamento Sant'Anna	HEATING SYSTEM FOR A PACKAGING	(47) 09.08.2023
(72) TONINI, Andrea	MACHINE	(51) B29C 70/44
BUZZELLI, Andrea	(73) MULTIVAC Sepp Haggenmüller SE & Co.	B29C 33/50
MATINO, Ruben	KG	B29C 44/18
BOTTINI, Mirko	(72) CLEMENS, Stephen	B29C 44/34
COLLA, Valentina	RENNER, Dr. Ingo	B29L 31/30
(74) J.M.H. Duyver lic.	NAPRAVNIK, Christian	B29L 31/32
(31) 201700106914	(74) dr. R.C. van Duijvenbode c.s.	(11) EP3753700
(32) 25.09.2017	(31) 102020204751	(21) EP20178393.3
(33) Italy	(32) 15.04.2020	(22) 04.06.2020
(47) 07.06.2023	(33) Germany	(54) METHOD OF MANUFACTURING A
(51) B28B 3/02	(47) 02.08.2023	COMPOSITE RIM
B28B 3/06	(51) B29C 64/118	(73) Marshal Industrial Corp.
B28B 13/02	B29C 64/321	(72) Tsai, Ming-Jen
B28B 15/00	(11) EP4007690	(74) mr. ir. J. van Breda c.s.
B30B 15/30	(21) EP20740741.2	(31) 108121609
B30B 15/02	(22) 14.07.2020	(32) 21.06.2019
B30B 15/32	(54) CONTROLLED RETRACTION OF	(33) Taiwan, Chinese Taipei
B30B 11/02	FILAMENT	(47) 31.05.2023
(11) EP3713730	(73) Ultimaker B.V.	(51) B32B 3/02
(21) EP18812308.7	(72) HEIJMANS, Tom	B65D 65/40
(22) 22.11.2018	(74) dr. R.C. van Duijvenbode c.s.	B32B 3/26
(54) DEVICE FOR PRESSING A	(31) 2024311	B32B 3/28
NON-HARDENED CONCRETE	2023596	B32B 7/02
COMPOSITION AND METHOD FOR	(32) 26.11.2019	B32B 7/12
THE MANUFACTURE OF CONCRETE	01.08.2019	B32B 7/14
ARTICLES	(33) Netherlands	(11) EP3478488
(73) Ebema, Naamloze Vennootschap	Netherlands	(21) EP16907524.9
(72) PANIS, Bert	(47) 30.08.2023	(22) 29.06.2016
(31) 17203215	(51) B29C 64/209	(54) MANUALLY OPENABLE RECYCLABLE
(32) 23.11.2017	B29C 64/118	PACKAGE
(33) European Patent Office (EPO)	B29C 64/321	(73) Amcor Flexibles North America, Inc.
(47) 09.08.2023	B32B 3/02	(72) LAHTI, Hanna-mari

PUTKISTO, Kaisa, P. (74) ir. W.J.J.M. Kempes (47) 21.06.2023	(11) EP3763568 (21) EP20184571.6 (22) 07.07.2020	(72) YAN, Weijun QI, Heng MA, Fusheng
(51) B32B 5/00 B32B 5/12 B32B 5/26	(54) SKIP PROVIDED WITH A HATCH (73) CI 85 (Carrosserie Industrielle et Services)	(74) dr. R.C. van Duijvenbode c.s. (31) 201710402809 (32) 01.06.2017
(11) EP3606741 (21) EP18719017.8 (22) 31.03.2018	(72) ARNAUD, Bernard (74) ir. G.J.M. Verhees (31) 1907625 (32) 08.07.2019	(33) China (47) 05.07.2023
(54) DOUBLE-DOUBLE COMPOSITE SUB-LAMINATE STRUCTURES AND METHODS FOR MANUFACTURING AND USING THE SAME	(33) France (47) 31.05.2023	(51) B62J 6/00 B62K 21/12
(73) The Board of Trustees of the Leland Stanford Junior University	(51) B60P 3/34 (11) EP3793861 (21) EP19733735.5 (22) 24.06.2019	(11) EP3294615 (21) EP16726427.4 (22) 29.04.2016
(72) TSAI, Stephen W. RAINSBERGER, Robert	(54) MOTORHOME WITH A SEAL ARRANGED BETWEEN A SUPERSTRUCTURE AND A DISPLACEABLE ROOM EXTENSION MODULE	(54) A COMPACT LAMP (73) Vilnius University (72) RUDYS, Saulius GRIGALAITIS, Robertas BANYS, Juras
(74) dr. A. Krebs (31) 201762518202 P 201762501957 P 201762481302 P	(73) Protec GmbH & Co. KG (72) WIETH, Franz (74) mr. ir. J. van Breda c.s. (31) 102018210330 (32) 25.06.2018	(74) ir. W.J.J.M. Kempes (31) 2015037 (32) 08.05.2015 (33) Lithuania (47) 21.06.2023
(32) 12.06.2017 05.05.2017 04.04.2017	(33) Germany (47) 31.05.2023	(51) B62M 6/55 B62M 11/14 B62M 11/18
(33) United States of America United States of America United States of America	(51) B61D 1/06 B61D 23/02 B61F 3/00	(11) EP3689730 (21) EP20159575.8 (22) 05.04.2017
(47) 09.08.2023	(11) EP3895951 (21) EP20169393.4 (22) 14.04.2020	(54) DRIVE ASSEMBLY AND VEHICLE (73) Robert Bosch GmbH (72) Kimmich, Peter Hinterkausen, Markus
(51) B32B 27/08 B32B 27/22 B32B 27/30 B32B 27/36 B32B 3/26 C08K 5/11 B32B 17/10 B60J 1/02 C08J 5/18	(54) PASSENGER CAR PROVIDED WITH A VESTIBULE LOCATED ABOVE A BOGIE AND WITH AN EXTERNAL ACCESS STEP AT A SIDE DOORWAY	(74) ir. H.A. Witmans c.s. (31) 102016207035 (32) 26.04.2016 (33) Germany (47) 26.07.2023
(11) EP3230369 (21) EP15866882.2 (22) 04.12.2015	(73) Bombardier Transportation GmbH (72) GACHET, Benoit LAGNIER, David ALLERT, Frederik BRACQ, Christophe DEMEULENAERE, Ludovic	(51) B62M 9/122 B62M 9/132 B62J 43/30 B62J 45/20 B62J 45/41 B62M 25/08 B62J 1/08 B62K 25/08 B62K 25/28 B62K 19/36
(54) POLY(VINYL ACETAL) RESIN COMPOSITIONS, LAYERS, AND INTERLAYERS HAVING ENHANCED OPTICAL PROPERTIES	(74) ir. W.J.J.M. Kempes (47) 07.06.2023	(11) EP3680163 (21) EP20150899.1 (22) 09.01.2020
(73) Solutia Inc. (72) LU, Jun (74) mr. R. Zwamborn (31) 201414563011 (32) 08.12.2014	(51) B61D 15/06 B61D 17/06 B61G 11/14	(54) BICYCLE COMPONENT MOTION CONTROL (73) SRAM, LLC. (72) HAHN, Sage HO, Alexander Kon-I KIM, Sang
(33) United States of America (47) 07.06.2023	(11) EP3812232 (21) EP20199652.7 (22) 01.10.2020	(74) J.M.H. Duyver lic. (31) 201916522002 201962791781 P
(51) B42C 5/02 B42C 19/08	(54) FRONT END FOR A RAIL VEHICLE	(32) 25.07.2019 12.01.2019
(11) EP3856532 (21) EP19780219.2 (22) 30.09.2019	(73) Bombardier Transportation GmbH (72) Geihofer, Philipp Mieth, Steffen Petto, Michael	(33) United States of America United States of America
(54) DEVICE AND METHOD FOR SIMULTANEOUS SQUARE FOLDING OF THE SPINE AND TRIMMING OF BOOKLETS	(74) ir. W.J.J.M. Kempes (31) 201915238 (32) 22.10.2019	(47) 02.08.2023
(73) Plockmatic International AB (72) ERIKSSON, Lennart (31) 1851173 (32) 28.09.2018	(33) United Kingdom (47) 07.06.2023	(51) B63B 25/16 B63H 21/38 F17C 13/12
(33) Sweden (47) 21.06.2023	(51) B62B 7/08 (11) EP3632772 (21) EP17912320.3 (22) 30.11.2017	
(51) B60P 1/56 B60P 1/00	(54) STROLLER (73) Goodbaby Child Products Co., Ltd	

F17D 5/00	B65G 1/137	(54) AMMONIA DISSOCIATION BY USE OF
F17D 5/04	A62C 27/00	INDUCTIVE HEATING
(11) EP3689733	A62C 3/00	(73) Topsoe A/S
(21) EP17926889.1	(11) EP4025524	(72) HØJLUND NIELSEN, Poul Erik
(22) 26.09.2017	(21) EP20760836.5	MORTENSEN, Peter Mølgaard
(54) SYSTEM FOR CIRCULATING	(22) 21.08.2020	HANSEN, John Bøgild
AIR THROUGH DOUBLE PIPES	(54) METHOD, AND ASSOCIATED SYSTEM,	(74) J.M.H. Duyver lic.
FOR SUPPLYING GAS AND AIR	OF PROVIDING AN OPERATOR	(31) 201600244
CIRCULATION METHOD USING SAME	ACCESS TO A TARGET STORAGE	(32) 26.04.2016
(73) Daewoo Shipbuilding & Marine	POSITION IN AN AUTOMATED	(33) Denmark
Engineering Co., Ltd.	STORAGE AND RETRIEVAL SYSTEM	(47) 12.07.2023
(72) KIM, Jong Hyun	(73) Autostore Technology AS	(51) C01B 15/023
(74) ir. W.J.J.M. Kempes	(72) FJELDHEIM, Ivar	(11) EP3768636
(47) 31.05.2023	AUSTRHEIM, Trond	(21) EP19710432.6
(51) B65D 1/02	(74) dr. A. Krebs	(22) 19.03.2019
B65D 41/34	(31) 20191053	(54) PROCESS FOR MANUFACTURING AN
(11) EP3681806	(32) 02.09.2019	AQUEOUS HYDROGEN PEROXIDE
(21) EP18789500.8	(33) Norway	SOLUTION
(22) 13.09.2018	(47) 26.07.2023	(73) SOLVAY SA
(54) WINE BOTTLE AND METHOD	(51) B65G 47/84	(72) CARLIER, Juan-Teva
(73) Creative Cloud Company B.V.	(11) EP3693301	DOURNEL, Pierre
(72) RITZEN, Glen	(21) EP20155363.3	LORENT, Karol
(74) dr. ir. G.J.C. Verdijck c.s.	(22) 04.02.2020	(74) ir. W.J.J.M. Kempes
(31) 2019538	(54) CONVEYOR WITH PUSHERS	(31) 18162441
(32) 13.09.2017	(73) Optimus Sorter Holding B.V.	(32) 19.03.2018
(33) Netherlands	(72) STRONKHORST, Willem Dagobert	(33) European Patent Office (EPO)
(47) 31.05.2023	(74) ir. W.J.J.M. Kempes	(47) 14.06.2023
(51) B65D 81/20	(31) 2022537	(51) C02F 3/00
B67C 3/04	(32) 08.02.2019	E03F 7/00
B67C 7/00	(33) Netherlands	(11) EP3504163
B65D 51/24	(47) 09.08.2023	(21) EP17757763.2
B65B 31/00	(51) B65H 45/12	(22) 25.08.2017
(11) EP2909106	B65H 29/62	(54) TREATMENT OF WASTEWATER
(21) EP13842731.5	B65H 29/46	(73) Danmarks Tekniske Universitet
(22) 06.09.2013	B42C 19/08	Krøger A/S
(54) USE OF ADSORBER MATERIAL	(11) EP3887295	(72) GRUM, Morten
TO RELIEVE VACUUM IN SEALED	(21) EP19809823.8	MADSEN, Henrik
CONTAINER CAUSED BY COOLING OF	(22) 27.11.2019	JØRGENSEN, John, Bagterp
HEATED CONTENTS	(54) DEVICE AND METHOD FOR FOLDING	HALVGAARD, Rasmus, Fogtmann
(73) Pepsico, Inc.	AND STORING BOOK DOCUMENTS	MUNK-NIELSEN, Thomas
(72) SEQUEIRA, Clarence	(73) Muehlbauer GmbH & Co. KG	THOMSEN, Henrik, Andreas, Rønnow
SOCCI, Edward Peter	(72) KLEINDIENST, Uwe	TYCHSEN, Peter
CHIANG, Weilong L.	(74) ir. H.A. Witmans c.s.	(74) ir. J.C. Volmer c.s.
LUNN, Paul	(31) 102018009417	(31) 16185878
(74) J.M.H. Duyver lic.	(32) 30.11.2018	(32) 26.08.2016
(31) 201213629720	(33) Germany	(33) European Patent Office (EPO)
(32) 28.09.2012	(47) 14.06.2023	(47) 07.06.2023
(33) United States of America	(51) B66C 1/10	(51) C02F 9/02
(47) 26.07.2023	B66C 3/00	C02F 1/28
(51) B65D 85/804	(11) EP3959165	C02F 1/44
B65B 61/00	(21) EP20785578.4	E03B 1/04
B65B 29/02	(22) 24.09.2020	C02F 1/00
(11) EP3658473	(54) SYSTEM AND METHOD FOR	C02F 103/00
(21) EP18768974.0	CONTROLLING THE LIFTING AND	E03D 5/00
(22) 27.07.2018	HANDLING OF A LOAD	E03C 1/26
(54) PAD FOR HOT BEVERAGE AND	(73) Helmerich & Payne Technologies UK	(11) EP3423413
APPARATUS AND METHOD FOR	Limited	(21) EP17759050.2
MANUFACTURING THEREOF	(72) JAMIESON, Angus Lamberton	(22) 02.03.2017
(73) Scaffee B.V.	(74) J.M.H. Duyver lic.	(54) INTAKE FILTER FOR WATER
(72) STORK, Ids Adriaan	(31) 201913783	COLLECTION SYSTEM WITH
OOSTERHUIS, Antoon Siefko	(32) 24.09.2019	PRESSURE ACTIVATED BACKWASH
VAN DER ZEE, Anno Adriaan	(33) United Kingdom	VALVE
(74) dr. ir. G.J.C. Verdijck c.s.	(47) 05.07.2023	(73) Greyter Water Systems Inc.
(31) 2019369	(51) C01B 3/04	(72) PEREIRA CALDEIRA, Michael Nelson
(32) 28.07.2017	(11) EP3448803	THOMPSON, Christopher Roy
(33) Netherlands	(21) EP17718914.9	(74) dr. R.C. van Duijvenbode c.s.
(47) 28.06.2023	(22) 24.04.2017	(31) 201662305625 P
(51) B65G 1/04		201662302988 P

(32) 09.03.2016	(47) 21.06.2023	C07D 401/12
03.03.2016	(51) C07C 5/333	C07D 239/48
(33) United States of America	C07C 11/06	A61K 31/505
United States of America	(11) EP3818033	A61K 31/506
(47) 07.06.2023	(21) EP19740178.9	A61K 31/44
(51) C03B 37/04	(22) 26.06.2019	A61P 7/06
C22C 19/05	(54) CHEMICAL PROCESSES AND	A61P 35/02
C22F 1/10	SYSTEMS THAT INCLUDE THE	(11) EP3442947
C03B 37/00	COMBUSTION OF SUPPLEMENTAL	(21) EP17720921.0
(11) EP3589590	FUELS	(22) 17.04.2017
(21) EP17712812.1	(73) Dow Global Technologies LLC	(54) AMINE-SUBSTITUTED ARYL OR
(22) 28.02.2017	(72) PRETZ, Matthew T.	HETEROARYL COMPOUNDS AS
(54) ALLOY FOR GLASS FIBER SPINNER	LUO, Lin	EHMT1 AND EHMT2 INHIBITORS
(73) SAINT-GOBAIN SEVA	WANG, Hangyao	(73) Epizyme, Inc.
(72) SUN, Fei	(74) ir. W.J.J.M. Kempes	(72) CAMPBELL, John Emmerson
YAN, JingBo	(31) 201862694196 P	DUNCAN, Kenneth William
XU, Yaxin	(32) 05.07.2018	FOLEY, Megan Alene
GU, Yuefeng	(33) United States of America	HARVEY, Darren Martin
(74) ir. W.J.J.M. Kempes	(47) 02.08.2023	KUNTZ, Kevin Wayne
(47) 05.07.2023	(51) C07C 45/61	MILLS, James Edward John
(51) C03C 27/12	(11) EP3484844	MUNCHHOF, Michael John
B32B 17/10	(21) EP17739975.5	(74) dr. A. Krebs
B32B 27/00	(22) 14.07.2017	(31) 201662402997 P
(11) EP3127884	(54) PREPARATION OF 14-METHYL-16-	201662348837 P
(21) EP15774491.3	OXABICYCLO[10.3.1]PENTADECENES	201662323602 P
(22) 31.03.2015	FROM 3-METHYL-1,5-	(32) 30.09.2016
(54) INTERLAYER FILM FOR LAMINATED	CYCLOPENTADECANEDIONE	10.06.2016
GLASS, AND LAMINATED GLASS	(73) BASF SE	15.04.2016
(73) Sekisui Chemical Co., Ltd.	(72) BRU ROIG, Miriam	(33) United States of America
(72) NAKAYAMA, Kazuhiko	RUEDENAUER, Stefan	United States of America
IWAMOTO, Tatsuya	(74) ir. W.J.J.M. Kempes	United States of America
YOSHIDA, Shougo	(31) 16179692	(47) 07.06.2023
(74) ir. H.A. Witmans c.s.	(32) 15.07.2016	(51) C07D 307/68
(31) 2014074810	(33) European Patent Office (EPO)	(11) EP3578552
(32) 31.03.2014	(47) 14.06.2023	(21) EP19184951.2
(33) Japan	(51) C07D 219/10	(22) 17.07.2013
(47) 02.08.2023	C07C 51/43	(54) AN OXIDATION PROCESS TO
(51) C04B 28/06	C07C 55/10	PRODUCE A PURIFIED CARBOXYLIC
C04B 111/28	A61K 31/473	ACID PRODUCT VIA SOLVENT
(11) EP3997048	A61P 25/28	DISPLACEMENT AND POST
(21) EP20730001.3	A61P 25/18	OXIDATION
(22) 28.05.2020	A61P 25/00	(73) EASTMAN CHEMICAL COMPANY
(54) DRY PLASTER MIXTURE FOR A	A61P 21/04	(72) Shaikh, Ashfaq Shahanawaz
SPRAYABLE INSULATION	A61P 21/00	Parker, Kenny Randolph
(73) Franken Maxit Mauermörtel GmbH & Co.	(11) EP3912971	Morrow, Michael Charles
(72) GROPPWEISS, Sebastian Stephan	(21) EP20748154.0	Bowers, Bradford Russell
SCHARFE, Friedbert Anton	(22) 21.01.2020	Moody, Paula
(74) ir. A. Blokland c.s.	(54) CHOLINESTERASE INHIBITOR	Partin, Lee Reynolds
(31) 202019103866 U	POLYMORPH AND APPLICATION	Janka, Mesfin Ejerssa
(32) 12.07.2019	THEREOF	(74) mr. R. Zwamborn
(33) Germany	(73) Changchun Huayuan High-Science and	(31) 201213553976
(47) 02.08.2023	Technology Co., Ltd	(32) 20.07.2012
(51) C05D 9/00	Jiangsu Sheneryang High-Science and	(33) United States of America
C05F 3/00	Technology Co., Ltd	(47) 07.06.2023
(11) EP3558898	(72) WANG, Tonghui	(51) C07D 401/12
(21) EP17835729.9	ZHANG, Ju	A61K 31/4439
(22) 21.12.2017	WANG, Lihua	A61P 35/00
(54) BIOCARBON REGENERATION AND /	WANG, Depu	(11) EP3333164
OR FERTILIZER SUBSTRATE	ZHANG, Qi	(21) EP17189480.1
(73) Zdroje Zeme A.S.	LI, Mingze	(22) 26.07.2012
(72) MARYNČÁK, Miroslav	YU, Qinghua	(54) HYDRAZIDE CONTAINING NUCLEAR
KRÁLIK, Peter	ZHANG, Yaxin	TRANSPORT MODULATORS AND
(31) PV1482016 U	(74) ir. W.J.J.M. Kempes	USES THEREOF
PP1142016	(31) 201910100045	(73) Karyopharm Therapeutics Inc.
(32) 22.12.2016	(32) 31.01.2019	(72) Sandanayaka,, Vincent P
22.12.2016	(33) China	Shacham,, Sharon
(33) Slovakia	(47) 31.05.2023	McCauley, Dilara
Slovakia	(51) C07D 231/38	Shechter, Sharon

(74) ir. W.J.J.M. Kempes	C07D 473/34	(33) United States of America
(31) 201261654651 P	A61P 35/02	(47) 07.06.2023
201261653588 P	(11) EP3424924	(51) C07K 16/28
201261610178 P	(21) EP17762560.5	C07K 16/32
201161513432 P	(22) 10.03.2017	A61K 39/395
201161513428 P	(54) UREA COMPOUND, PREPARATION	A61P 35/00
(32) 01.06.2012	METHOD THEREFOR AND MEDICAL	(11) EP3833386
31.05.2012	USE THEREOF	(21) EP19847982.6
13.03.2012	(73) Ancureall Pharmaceutical (Shanghai)	(22) 07.08.2019
29.07.2011	Co., Ltd.	(54) MULTI-SPECIFIC BINDING PROTEINS
29.07.2011	(72) Si, Jutong	THAT BIND HER2, NKG2D, AND CD16,
(33) United States of America	JIANG, Meifeng	AND METHODS OF USE
United States of America	(74) ir. W.J.J.M. Kempes	(73) Dragonfly Therapeutics, Inc.
United States of America	(31) 201610142049	(72) CHANG, Gregory, P.
United States of America	(32) 11.03.2016	GRINBERG, Asya
United States of America	(33) China	PRINZ, Bianka
(47) 07.06.2023	(47) 24.05.2023	WAGTMANN, Nicolai
(51) C07D 401/14	(51) C07D 487/04	FALLON, Daniel
A61K 31/501	(11) EP3938368	LUNDE, Bradley, M.
A61P 35/00	(21) EP20717027.5	HANEY, William
C07D 403/10	(22) 09.03.2020	O'NEIL, Steven
C07D 403/14	(54) COMPOUND FORM HAVING	WEI, Ronnie
C07D 417/14	ENHANCED BIOAVAILABILITY AND	CHEUNG, Ann, F.
(11) EP3030557	FORMULATIONS THEREOF	(74) dr. W.A.H.M. Van Borm
(21) EP14843941.7	(73) PTC Therapeutics, Inc.	(31) 201862716259 P
(22) 12.09.2014	(72) DALI, Mandar, Vasant	(32) 08.08.2018
(54) A NOVEL PHTALAZINONE	VAZE, Onkar, Shripad	(33) United States of America
DERIVATIVES AND MANUFACTURING	UDDIN, Akm, Nasir	(47) 14.06.2023
PROCESS THEREOF	(74) ir. W.J.J.M. Kempes	(51) C07K 16/32
(73) Idience Co., Ltd.	(31) 201962816402 P	A61K 39/00
(72) LEE, Hong-Sub	(32) 11.03.2019	A61K 31/496
PARK, Joon-Tae	(33) United States of America	A61K 31/519
AN, Kyung-Mi	(47) 07.06.2023	A61K 31/565
KIM, Kyung-Sun	(51) C07F 9/6574	(11) EP3625264
YUN, Yong-Don	C07C 45/50	(21) EP18733959.3
SONG, Dong-Keun	(11) EP4059939	(22) 17.05.2018
KIM, Jeong-Geun	(21) EP21163474.6	(54) COMBINATION OF AN ERBB-2/
KANG, Jae-Hoon	(22) 18.03.2021	ERBB-3 BISPECIFIC ANTIBODY WITH
HONG, Chang-Hee	(54) BISPHOSPHITE LIGANDS BASED ON	ENDOCRINE THERAPY FOR BREAST
PARK, Sun-Young	BENZOPINACOL	CANCER
LEE, Yoon-Suk	(73) Evonik Operations GmbH	(73) Merus N.V.
JEONG, Jin-Ah	(72) BÖRNER, Armin	(72) MAUSSANG-DETAILLE, David Andre
(74) ir. H.A. Witmans c.s.	ROMEIKE, Kerstin	Baptiste
(31) 20140120152	SELENT, Detlef	GEUIJEN, Cecilia Anna Wilhelmina
20130110170	KUCMIERCZYK, Peter	(74) ir. H.A. Witmans c.s.
(32) 11.09.2014	BRÄCHER, Alexander	(31) 201762507675 P
13.09.2013	FRANKE, Robert	(32) 17.05.2017
(33) Korea (Republic)	MARKOVIC, Ana	(33) United States of America
Korea (Republic)	KNOSSALLA, Johannes	(47) 28.06.2023
(47) 31.05.2023	FRIDAG, Dirk	(51) C08F 8/28
(51) C07D 413/12	SALE, Anna Chiara	C08F 120/56
C07D 401/12	(74) ir. W.J.J.M. Kempes	D21H 17/37
C07D 417/12	(47) 07.06.2023	D21H 17/38
C07D 487/04	(51) C07K 16/28	D21H 21/18
C07D 473/30	C07K 14/525	(11) EP3448896
A61K 31/4184	C07K 14/475	(21) EP17718327.4
A61K 31/422	A61K 38/18	(22) 22.03.2017
A61K 31/427	A61K 39/395	(54) METHOD FOR PRODUCING A
A61K 31/52	(11) EP3283529	DRY STRENGTHENING AGENT
A61P 35/00	(21) EP16780837.7	CONSISTING OF GLYOXALATED
C07D 403/12	(22) 15.04.2016	POLYACRYLAMIDE
C07D 401/14	(54) AGENTS, SYSTEMS AND METHODS	(73) Applied Chemicals Handels-GmbH
C07D 405/14	FOR TREATING CANCER	(72) KERMAN, Nuri
C07D 413/14	(73) The General Hospital Corporation	(74) ir. H.A. Witmans c.s.
C07D 235/06	(72) SHAH, Khalid	(31) 2122016
C07D 403/14	(74) ir. W.J.J.M. Kempes	(32) 25.04.2016
C07D 417/14	(31) 201562148795 P	(33) Austria
C07D 471/04	(32) 17.04.2015	(47) 07.06.2023

(51) C08F 297/02	PUCH, Florian	C08F 2/44
C08F 8/04	(74) ir. W.J.J.M. Kempes	C08L 33/12
C08L 53/02	(31) 19166552	C08F 220/14
C09J 153/00	(32) 01.04.2019	(11) EP4010411
C09J 153/02	(33) European Patent Office (EPO)	(21) EP20734988.7
C09K 3/00	(47) 14.06.2023	(22) 03.07.2020
F16F 15/02	(51) C08G 59/50	(54) PMMA-BASED CAST POLYMERS
C08F 297/04	C08L 63/00	HAVING IMPROVED MECHANICAL
C08L 23/12	(11) EP3953408	PROPERTIES
(11) EP3715395	(21) EP20716495.5	(73) Evonik Operations GmbH
(21) EP18880805.9	(22) 09.04.2020	(72) RICHTER, Thomas
(22) 21.11.2018	(54) CURABLE TWO-COMPONENT RESIN-	SEIPEL, Christoph
(54) BLOCK COPOLYMER OR	BASED SYSTEM	BERNHARD, Kay
HYDROGENATED PRODUCT OF SAME	(73) Huntsman Advanced Materials Licensing	(74) ir. W.J.J.M. Kempes
(73) Kuraray Co., Ltd.	(Switzerland) GmbH	(31) 19190732
(72) KATO, Masahiro	(72) BEISELE, Christian	(32) 08.08.2019
SENDA, Yasushi	COLLIARD, Sophie	(33) European Patent Office (EPO)
(74) dr. R.C. van Duijvenbode c.s.	(74) ir. M.B. Plaggenborg	(47) 14.06.2023
(31) 2018105641	(31) 19168605	(51) C08J 9/00
2017225097	(32) 11.04.2019	C08L 23/10
(32) 31.05.2018	(33) European Patent Office (EPO)	C08L 23/16
22.11.2017	(47) 31.05.2023	C08L 23/08
(33) Japan	(51) C08G 65/40	C08J 9/12
Japan	C08G 75/00	B60N 2/70
(47) 23.08.2023	C08G 75/23	(11) EP3889210
(51) C08F 297/08	(11) EP3743461	(21) EP19890354.4
(11) EP3596146	(21) EP19700623.2	(22) 29.11.2019
(21) EP18719329.7	(22) 18.01.2019	(54) FOAM COMPOSITION FOR VEHICLE
(22) 15.03.2018	(54) PROCESS FOR PREPARING	SEAT CUSHION, FOAM FOR
(54) CATALYST SYSTEM FOR MULTI-	FUNCTIONALIZED POLY(ARYL	VEHICLE SEAT CUSHION, AND
BLOCK COPOLYMER FORMATION	ETHER SULFONES) POLYMERS AND	MANUFACTURING METHOD
(73) Dow Global Technologies LLC	BLOCK COPOLYMERS RESULTING	THEREFOR
(72) PATTON, Jasson, T.	THEREFROM	(73) Lotte Chemical Corporation
ROOF, Gordon, R.	(73) Solvay Specialty Polymers USA, LLC.	(72) KWON, Yong Jin
SENECAL, Todd, D.	(72) POLLINO, Joel	LIM, Sung Hwan
DEVORE, David, D.	JEOL, Stéphane	EOM, Se Yeon
CHRISTIANSON, Matthew, D.	(74) ir. W.J.J.M. Kempes	(74) ir. A. Blokland c.s.
DAVIS, Anna, V.	(31) 201862620555 P	(31) 20180152141
ARRIOLA, Daniel, J.	18158622	(32) 30.11.2018
(74) ir. W.J.J.M. Kempes	(32) 23.01.2018	(33) Korea (Republic)
(31) 201762471557 P	26.02.2018	(47) 26.07.2023
(32) 15.03.2017	(33) United States of America	(51) C08J 11/16
(33) United States of America	European Patent Office (EPO)	C08J 11/24
(47) 19.07.2023	(47) 14.06.2023	C07C 67/48
(51) C08G 18/08	(51) C08G 65/40	C07C 69/82
C08G 18/10	C08G 75/23	(11) EP3481892
C08G 18/12	(11) EP3841149	(21) EP17739523.3
C08G 18/32	(21) EP19773886.7	(22) 04.07.2017
C08G 18/42	(22) 20.08.2019	(54) METHOD FOR THE
C08G 18/48	(54) METHOD FOR PRODUCING	DEPOLYMERISATION OF A
C08G 18/50	AROMATIC POLYETHERSULFONES	POLYESTER COMPRISING OPAQUE
C08G 18/66	CONTAINING ISOHEXIDE	POLYETHYLENE TEREPHTHALATE
C08G 18/76	(73) UNIVERSITE CLAUDE BERNARD -	(73) IFP Energies nouvelles
C08G 18/79	LYON 1	(72) CHARRA, Cyprien
B01J 19/24	Centre National de la Recherche	FAVRE, Frederic
(11) EP3947495	Scientifique (CNRS)	MEKKI-BERRADA, Adrien
(21) EP20713328.1	ROQUETTE FRERES	THINON, Olivier
(22) 29.03.2020	(72) MERCIER, Régis	(74) ir. W.J.J.M. Kempes
(54) CONTINUOUS PRODUCTION OF	DELAUNAY, Thierry	(31) 1656423
POLYURETHANE PREPOLYMERS	DEGRAS, Sarah	(32) 05.07.2016
(73) BASF SE	JACQUEL, Nicolas	(33) France
(72) HINKE, Carsten	(74) ir. W.J.J.M. Kempes	(47) 07.06.2023
WAGNER, Hendrik	(31) 1857545	(51) C08L 27/06
BODMANN, Daniela	(32) 20.08.2018	C08L 33/12
ALBUERNE, Julio	(33) France	(11) EP3433318
WETTACH, Henning	(47) 26.07.2023	(21) EP17771108.2
SCHLIEBE, Nadine	(51) C08J 9/00	(22) 23.03.2017
DREISOERNER, Jan-Michael	C08J 9/06	

- (54) FUNCTIONALIZED ACRYLIC PROCESS AIDS FOR GLOSS AND SURFACE FINISH MODIFICATION  
(73) Arkema, Inc.  
(72) YOCCA, Kevin R.  
LYONS, Jason M.  
MOUNTZ, David A.  
(74) dr. R.C. van Duijvenbode c.s.  
(31) 201662313187 P  
(32) 25.03.2016  
(33) United States of America  
(47) 21.06.2023
- 
- (51) C08L 63/00  
C08J 3/03  
C08G 59/18  
C09D 163/00  
C09J 163/00  
C08G 59/14  
C09K 23/00  
(11) EP3904454  
(21) EP18945051.3  
(22) 29.12.2018  
(54) PREPARATION METHOD FOR EMULSIFIER, EMULSIFIER, AQUEOUS EPOXY RESIN DISPERSION AND FORMULATION METHOD  
(73) Wanhua Chemical (Ningbo) Co., Ltd.  
Wanhua Chemical Group Co., Ltd.  
(72) SUN, Jiakuan  
QU, Rui  
JI, Xueshun  
WANG, Xiao  
DENG, Junying  
LI, Weifei  
(74) ir. W.J.J.M. Kempes  
(47) 19.07.2023
- 
- (51) C09C 1/50  
B60C 1/00  
C08K 3/04  
C08L 21/00  
(11) EP3757172  
(21) EP19182328.5  
(22) 25.06.2019  
(54) A PROCESS FOR PRODUCING CARBON BLACK AND RELATED FURNACE REACTOR  
(73) Orion Engineered Carbons GmbH  
(72) Mergenthaler, Pieter  
SCHINKEL, Arndt  
TSATSARONIS, George  
(74) J.M.H. Duyver lic.  
(47) 09.08.2023
- 
- (51) C09D 11/03  
C09D 153/00  
C09D 133/00  
C09D 11/326  
C09D 11/107  
C08L 53/00  
C08F 293/00  
C08L 33/02  
C09D 133/02  
C08F 265/06  
C08L 51/00  
C09D 5/02  
C09D 151/00  
G02B 5/22  
G03F 7/00  
G03F 7/105
- (11) EP3959274  
(21) EP20719647.8  
(22) 22.04.2020  
(54) NON-PIGMENTED DISPERSANT COMPOSITION  
(73) BYK-Chemie GmbH  
(72) FRANK, Albert  
KRAPPE, Udo  
OKKEL, Andreas  
LINDNER, Benjamin  
TAKABAYASHI, Ryo  
BÖMER, Jörg  
YONEHARA, Hiroshi  
KOHARA, Yoshizumi  
(74) ir. W.J.J.M. Kempes  
(31) 19171337  
(32) 26.04.2019  
(33) European Patent Office (EPO)  
(47) 07.06.2023
- 
- (51) C09K 8/40  
C08J 3/02  
C09K 8/42  
(11) EP3405546  
(21) EP17703264.6  
(22) 13.01.2017  
(54) METHOD OF USING A SPACER FLUID HAVING SIZED PARTICULATES  
(73) Baker Hughes Holdings LLC  
(72) LI, Li  
DOAN, Angela Anh  
DIGHE, Shailesh S.  
KELLUM, Matthew Grady  
(74) ir. W.J.J.M. Kempes  
(31) 201615000892  
(32) 19.01.2016  
(33) United States of America  
(47) 02.08.2023
- 
- (51) C10M 129/72  
C10M 133/16  
C10M 145/22  
C10N 30/06  
(11) EP3752588  
(21) EP19752058.8  
(22) 08.02.2019  
(54) ANTI-WEAR COMPOSITION FOR LUBRICANTS  
(73) LANXESS Corporation  
(72) DEBLASE, Frank J.  
STIEBER, Joseph  
MACLEOD, Kenneth Cory  
(74) ir. W.J.J.M. Kempes  
(31) 201862629171 P  
(32) 12.02.2018  
(33) United States of America  
(47) 14.06.2023
- 
- (51) C10M 133/14  
C10N 30/04  
C10N 30/08  
C10N 30/10  
(11) EP3516019  
(21) EP17772225.3  
(22) 13.09.2017  
(54) LUBRICANT COMPOSITIONS STABILIZED BY MIXTURES OF DIARYLAMINE AND HYDROXYDIARYLAMINE ANTIOXIDANTS  
(73) LANXESS Corporation
- (72) ROWLAND, Robert, G.  
RAMESH, Subban  
(74) ir. W.J.J.M. Kempes  
(31) 201762463831 P  
201662396880 P  
(32) 27.02.2017  
20.09.2016  
(33) United States of America  
United States of America  
(47) 14.06.2023
- 
- (51) C12N 5/074  
C12N 15/09  
C12N 5/10  
(11) EP3472304  
(21) EP17814244.4  
(22) 16.06.2017  
(54) A NOVEL AND EFFICIENT METHOD FOR REPROGRAMMING BLOOD TO INDUCED PLURIPOTENT STEM CELLS  
(73) Cedars-Sinai Medical Center  
(72) SAREEN, Dhruv  
ORNELAS, Loren A.  
SVENDSEN, Clive  
(74) dr. A. Krebs  
(31) 201615184241  
(32) 16.06.2016  
(33) United States of America  
(47) 09.08.2023
- 
- (51) C12N 5/0783  
A61K 35/17  
A61P 37/00  
(11) EP3740569  
(21) EP19700530.9  
(22) 17.01.2019  
(54) REGULATORY T CELL EXPRESSING A CHIMERIC ANTIGEN RECEPTOR  
(73) Miltenyi Biotec B.V. & Co. KG  
Charité Universitätsmedizin Berlin  
(72) LOCK, Dominik  
KAISER, Andrew  
SCHEFFOLD, Alexander  
NOWAK, Anna  
(74) ir. W.J.J.M. Kempes  
(31) 18152631  
(32) 19.01.2018  
(33) European Patent Office (EPO)  
(47) 26.07.2023
- 
- (51) C12N 15/10  
C40B 20/04  
C40B 40/04  
C40B 70/00  
(11) EP3452591  
(21) EP17793198.7  
(22) 02.05.2017  
(54) MACROMOLECULE ANALYSIS EMPLOYING NUCLEIC ACID ENCODING  
(73) Encodia, Inc.  
(72) GUNDERSON, Kevin  
CHEE, Mark  
WEINER, Michael, Phillip  
(74) ir. W.J.J.M. Kempes  
(31) 201662376886 P  
201662339071 P  
201662330841 P  
(32) 18.08.2016  
19.05.2016  
02.05.2016

(33) United States of America United States of America United States of America	C25B 15/08 (11) EP4048828 (21) EP21709123.0 (22) 25.02.2021	(74) dr. ir. G.J.C. Verdijk c.s. (31) 12402011 (32) 25.07.2011 (33) Switzerland (47) 07.06.2023
(47) 16.08.2023	(54) PRODUCTION OF ADIPONITRILE	(47) 07.06.2023
(51) C12Q 1/68 (11) EP3735471 (21) EP19700436.9 (22) 07.01.2019	(73) INVISTA Textiles (U.K.) Limited (72) KIRBY, Gregory S. TENN III, William J. HERZOG, Benjamin D. AKI, Sudhir KANTAK, Milind V. (74) J.M.H. Duyver lic. (31) 202062984786 P (32) 03.03.2020 (33) United States of America (47) 02.08.2023	(51) D01F 2/00 D01F 13/02 (11) EP3740605 (21) EP19700304.9 (22) 14.01.2019 (54) METHOD FOR THE RECYCLING OF TEXTILE MATERIAL CONTAINING CELLULOSE (73) LENZING AKTIENGESELLSCHAFT (72) KLAUS-NIETROST, Christoph HERCHL, Richard WEILACH, Christian (74) ir. W.J.J.M. Kempes (31) 18151697 (32) 15.01.2018 (33) European Patent Office (EPO) (47) 07.06.2023
(54) METHOD FOR SELECTING POLYNUCLEOTIDES BASED ON ENZYME INTERACTION DURATION	(74) J.M.H. Duyver lic. (31) 202062984786 P (32) 03.03.2020 (33) United States of America (47) 02.08.2023	(51) D04H 3/013 (11) EP3891325 (21) EP19828571.0 (22) 04.12.2019 (54) METHOD FOR SOLVENT AND CELLULOSE RECOVERY IN THE PRODUCTION OF CELLULOSE NON- WOVEN FABRIC (73) Lenzing Aktiengesellschaft (72) SAGERER-FORIC, Ibrahim MALZNER, Markus LICHTENTHAL, Martin (74) ir. W.J.J.M. Kempes (31) 18210510 (32) 05.12.2018 (33) European Patent Office (EPO) (47) 07.06.2023
(73) Oxford Nanopore Technologies plc (72) HERON, Andrew John BOWEN, Rebecca Victoria (74) dr. W.A.H.M. Van Borm (31) 201800187 (32) 05.01.2018 (33) United Kingdom (47) 28.06.2023	(51) C25B 15/02 C25B 1/04 C25B 1/02 (11) EP3768879 (21) EP19716006.2 (22) 20.03.2019 (54) SYSTEM AND METHOD FOR GENERATION OF GASES (73) Technion Research and Development Foundation Ltd. (72) GRADER, Gideon SHTER, Gennady DOTAN, Hen LANDMAN, Avigail ROTHSCHILD, Avner (74) ir. W.J.J.M. Kempes (31) 25825218 (32) 20.03.2018 (33) Israel (47) 19.07.2023	(51) D04H 3/013 D04H 3/16 D01D 5/06 D01F 2/00 (11) EP3607126 (21) EP18713920.9 (22) 28.03.2018 (54) NONWOVEN CELLULOSE FIBER FABRIC WITH INCREASED OIL ABSORBING CAPABILITY (73) Lenzing Aktiengesellschaft (72) HAYHURST, Malcolm John MAYER, Katharina EINZMANN, Mirko CARLYLE, Tom GOLDHALM, Gisela SAGERER-FORIC, Ibrahim (74) ir. W.J.J.M. Kempes (31) 17164491 (32) 03.04.2017 (33) European Patent Office (EPO) (47) 07.06.2023
(51) C12Q 1/68 C12N 15/11 C12N 15/85 C12N 15/10 C12N 15/63 C07H 21/02 C12P 19/34 C07H 21/04 A61P 43/00 (11) EP3411506 (21) EP17748194.2 (22) 02.02.2017 (54) REGULATION OF GENE EXPRESSION VIA APTAMER-MEDIATED CONTROL OF SELF-CLEAVING RIBOZYMES (73) Meiragtx UK II Limited (72) DANOS, Olivier, F. GUO, Xuecui ZENNOU, Veronique VOLLES, Michael, J. BOYNE, Alex, R. (74) ir. W.J.J.M. Kempes (31) 201662290209 P 201662290187 P (32) 02.02.2016 02.02.2016 (33) United States of America United States of America (47) 28.06.2023	(51) C25D 5/10 C25D 5/12 C23C 18/54 H01M 8/0208 H01M 8/0228 (11) EP3555347 (21) EP17803925.1 (22) 22.11.2017 (54) DEPOSITION OF A COATING ON AN INTERCONNECT FOR SOLID OXIDE CELL STACKS (73) Topsøe A/S (72) NØRBY, Tobias Holt BLENNOW, Bengt Peter Gustav KÜNGAS, Rainer RASS-HANSEN, Jeppe HEIREDAL-CLAUSEN, Thomas (74) J.M.H. Duyver lic. (31) PA201600771 (32) 16.12.2016 (33) Denmark (47) 02.08.2023	(51) D06P 1/00 D06P 1/673 (11) EP3346053 (21) EP17186906.8 (22) 18.08.2017 (54) DYING PROCESS FOR TEXTILE MATERIALS
(73) C4 Laser Technology GmbH (72) STEINMEIER, Tilo (74) ir. W.J.J.M. Kempes (31) 202019107269 U (32) 30.12.2019 (33) Germany (47) 31.05.2023	(51) D01D 5/16 D01D 10/02 D01F 6/62 (11) EP2737114 (21) EP12745993.1 (22) 23.07.2012 (54) METHOD AND DEVICE FOR PRODUCING AN HMLS YARN (73) Trützschler Switzerland AG (72) NASRI, Lassaad	(51) D06P 1/00 D06P 1/673 (11) EP3346053 (21) EP17186906.8 (22) 18.08.2017 (54) DYING PROCESS FOR TEXTILE MATERIALS
(51) C25B 3/09 C25B 3/29 C25B 9/00 C25B 11/042		



(73) Brauns-Heitmann GmbH & Co. KG	Sweden	(54) AN APPARATUS FOR SEALING A BORE, A SYSTEM COMPRISING THE APPARATUS AND A METHOD FOR USING THE APPARATUS
(72) Gibbels, Uwe	(47) 07.06.2023	(73) E Holstad Holding AS
Füser, Katja	(51) E04F 11/18	(72) JOHANNESSEN, Øyvind, Næss
(74) ir. A. van der Maarl	(11) EP3460141	SVARTVATN, Tommy
(31) 102016115927	(21) EP18195667.3	BERGE, Thomas
(32) 26.08.2016	(22) 20.09.2018	HEGGESTAD, Frode, Flugheim
(33) Germany	(54) SYSTEM FOR ALIGNING OF RAILING PLATES	HOLSTAD, Evald
(47) 21.06.2023	(73) Q-Railing Europe GmbH & Co. KG	BODE, Tom, Henning
(51) E01C 3/00	(74) ir. J.C. Volmer c.s.	JOHANSEN, Thomas, Bergan
E01C 3/06	(31) 202017105703 U	BYE, Arnulf
E01C 13/02	(32) 20.09.2017	(74) ir. A. Blokland c.s.
E01C 13/08	(33) Germany	(31) 20141002
E02B 11/00	(47) 07.06.2023	(32) 20.08.2014
E03F 1/00	(51) E04H 12/34	(33) Norway
(11) EP3670743	B66F 9/18	(47) 26.07.2023
(21) EP20156407.7	B66C 1/66	(51) E21B 34/10
(22) 23.08.2013	(11) EP3827149	B08B 9/043
(54) DRAINAGE STRUCTURE	(21) EP19742051.6	E21B 41/00
(73) ROCKWOOL A/S	(22) 22.07.2019	(11) EP3615766
(72) EMBORG, Michaeel	(54) DEVICE AND METHOD FOR UPENDING A TUBULAR ELEMENT WITH A LONGITUDINAL DIRECTION FROM A SUPPORT SURFACE AT AN OUTER END	(21) EP18725323.2
(74) ir. W.J.J.M. Kempes	(73) DEME Offshore BE N.V.	(22) 23.04.2018
(31) 12181812	(72) RABAUT, Dieter Wim Jan	(54) WELLBORE HYDRAULIC LINE IN-SITU RECTIFICATION SYSTEM AND METHOD
(32) 24.08.2012	VANNIEUWENHUYSE, Kenneth Gerard	(73) Wellmend AS
(33) European Patent Office (EPO)	MICHIELSEN, Jan Maria Koen	(72) HJERTHOLM, Pål
(47) 02.08.2023	(74) dr. ir. G.J.C. Verdijck c.s.	(74) ir. W.J.J.M. Kempes
(51) E02F 3/36	(31) 201805541	(31) 20170676
(11) EP3536861	(32) 26.07.2018	(32) 24.04.2017
(21) EP18207938.4	(33) Belgium	(33) Norway
(22) 23.11.2018	(47) 31.05.2023	(47) 07.06.2023
(54) QUICK CHANGER	(51) E05B 47/06	(51) E21B 43/013
(73) OilQuick Deutschland KG	E05B 47/00	E21B 43/017
(72) Fälschle, Florian	(11) EP3699377	(11) EP3894658
(74) ir. W.J.J.M. Kempes	(21) EP20155829.3	(21) EP19839115.3
(31) 102018105049	(22) 06.02.2020	(22) 11.12.2019
(32) 06.03.2018	(54) COUPLING MECHANISM FOR MECHATRONIC LOCKING SYSTEM	(54) APPARATUS, SYSTEMS AND METHODS FOR OIL AND GAS OPERATIONS
(33) Germany	(73) Aug. Winkhaus GmbH & Co. KG	(73) Enpro Subsea Limited
(47) 09.08.2023	(72) Hartmann, Gernot	(72) MCDONALD, Craig
(51) E04B 1/41	(74) ir. W.J.J.M. Kempes	(74) mr. ir. J. van Breda c.s.
F16B 37/04	(31) 102019202437	(31) 201820278
(11) EP3643847	(32) 22.02.2019	201820186
(21) EP18202230.1	(33) Germany	(32) 12.12.2018
(22) 24.10.2018	(47) 12.07.2023	11.12.2018
(54) FASTENING SYSTEM AND RAIL FOR A FASTENING SYSTEM	(51) E21B 17/046	(33) United Kingdom
(73) Mannstaedt GmbH	E21B 19/16	United Kingdom
Fuchs Schraubenwerk GmbH	(11) EP3665357	(47) 07.06.2023
Leviat GmbH	(21) EP18753020.9	(51) F01C 3/02
(72) JUSCHKAT, Bastian	(22) 27.07.2018	F01C 21/02
DÜNKEL, Volker	(54) DOWNHOLE TOOL COUPLING SYSTEM	(11) EP3507460
FUCHS, Tillmann	(73) Weatherford Technology Holdings, LLC	(21) EP17764636.1
HÄUSLER, Frank	(72) LIESS, Martin	(22) 01.09.2017
PHILIPP, Franz-Dieter	(74) ir. H.A. Witmans c.s.	(54) ROTARY PISTON AND CYLINDER DEVICE
(74) ir. A. Blokland c.s.	(31) 201715670897	(73) Lontra Limited
(47) 07.06.2023	(32) 07.08.2017	(72) LINDSEY, Stephen Francis
(51) E04C 5/16	(33) United States of America	(74) dr. W.A.H.M. Van Borm
E04C 5/20	(47) 31.05.2023	(31) 201614975
(11) EP2904172	(51) E21B 33/129	(32) 02.09.2016
(21) EP13837653.8	E21B 17/10	(33) United Kingdom
(22) 10.09.2013	(11) EP3183416	(47) 07.06.2023
(54) FOUNDATION SPACER	(21) EP15834541.3	(51) F01D 15/00
(73) INNOVATIV PLAST I VÄST AB	(22) 20.08.2015	F01D 25/16
(72) ANDERSSON, Stefan		
(74) dr. R.C. van Duijvenbode c.s.		
(31) 1350832		
1251020		
(32) 03.07.2013		
11.09.2012		
(33) Sweden		

F01D 25/22	(47) 26.07.2023	(73) Eugster/Frismag AG
F04D 29/058	(51) F03D 13/20	(72) RIESSBECK, Wolfgang
(11) EP3358146	F03D 80/50	VAN DE LÖCHT, Hendrik
(21) EP18154961.9	F03D 80/80	DECKERT, Maximilian
(22) 02.02.2018	(11) EP3879095	RAMSEIER, Samuel
(54) TURBOMACHINE AND METHOD OF	(21) EP20161895.6	BURKART, Olaf
OPERATING A TURBOMACHINE	(22) 09.03.2020	(74) dr. R.C. van Duijvenbode c.s.
(73) Nuovo Pignone Tecnologie - S.r.l.	(54) WIND TURBINE	(31) 102020101617
(72) DOZZINI, Matteo	(73) Siemens Gamesa Renewable Energy A/	(32) 23.01.2020
ORTIZ NERI, Massimiliano	S	(33) Germany
BORGHETTI, Massimiliano	(72) Gaard, Jesper	(47) 14.06.2023
(74) ir. W.J.J.M. Kempes	Rasmussen, Ejvin	(51) F16L 1/15
(31) 201700012500	Sendwal, Vipin	B61B 12/12
(32) 06.02.2017	Gagein, Amandeep	F16L 1/20
(33) Italy	Pedersen, Frederik Sig	F16L 3/06
(47) 02.08.2023	(74) ir. W.J.J.M. Kempes	(11) EP3835637
(51) F02K 9/34	(47) 28.06.2023	(21) EP19214904.5
F02K 9/97	(51) F15B 15/20	(22) 10.12.2019
C09J 5/02	F15B 15/14	(54) CABLE MANAGING AND CLAMPING
B05D 3/14	F15B 11/02	SYSTEM AND CORRESPONDING
B29C 59/14	F15B 11/024	METHOD
B05B 13/04	F15B 11/036	(73) De Regt Marine Cables B.V.
B05D 1/02	E02F 3/96	(72) Boomsma, Wiebe
B05D 5/00	F15B 20/00	van der Woude, Frederik Benjamin
B05D 7/00	(11) EP3919757	Haje Boer, Willem
B29C 70/02	(21) EP21176265.3	van Leeuwen, Sander
B29L 31/30	(22) 27.05.2021	Rotteveel, Adrianus Theodorus
(11) EP3489500	(54) HYDRAULIC CYLINDER ASSEMBLY,	(74) ir. W.J.J.M. Kempes
(21) EP18208007.7	FOR EXAMPLE FOR USE WITH A	(47) 07.06.2023
(22) 23.11.2018	HYDRAULIC TOOL	(51) F21V 5/08
(54) MANUFACTURING PROCESS	(73) Demolition and Recycling Equipment B.V.	F21K 9/20
FOR MAKING A DOME ELEMENT	(72) DE GIER, Gertrudis Maria Gerardus	F21V 5/04
PROVIDED WITH THERMAL	(74) ir. A. Blokland c.s.	F21V 5/00
PROTECTION FOR A SOLID	(31) 2025765	F21V 23/00
PROPELLANT ROCKET ENGINE	(32) 05.06.2020	F21V 19/00
(73) AVIO S.p.A.	(33) Netherlands	F21V 17/16
(72) SCHIARITI, Daniele	(47) 09.08.2023	F21V 29/83
CARDELLI, Massimiliano	(51) F16C 11/04	F21V 21/096
(74) ir. H.A. Witmans c.s.	G09F 9/30	G02B 19/00
(31) 201700135747	G06F 1/16	(11) EP3708906
(32) 27.11.2017	H04M 1/02	(21) EP18894930.9
(33) Italy	(11) EP3889452	(22) 26.12.2018
(47) 07.06.2023	(21) EP20763640.8	(54) ANNULAR LIGHT DISTRIBUTION
(51) F03D 1/00	(22) 18.02.2020	ELEMENT, LIGHT SOURCE MODULE,
B63B 21/56	(54) ROTATING DEVICE, HOUSING AND	LIGHT SOURCE COMPONENT AND
(11) EP3078846	ELECTRONIC DEVICE	LIGHTING LAMP
(21) EP15382116.0	(73) GUANGDONG OPPO MOBILE	(73) Opplé Lighting Co., Ltd.
(22) 13.03.2015	TELECOMMUNICATIONS CORP., LTD.	Suzhou Opplé Lighting Co., Ltd.
(54) WIND TURBINE PARTS HANDLING	(72) CHENG, Jiao	(72) Ni, Guolong
METHOD AND DEVICE	(74) ir. W.J.J.M. Kempes	QIAO, Shengjie
(73) GE Renewable Technologies Wind B.V.	(31) 201910139449	(74) ir. F.A. Geurts c.s.
(72) Aguiló, Borja	(32) 25.02.2019	(31) 201711438604
Lanca Coelho, Miguel	(33) China	(32) 26.12.2017
(74) J.M.H. Duyver lic.	(47) 12.07.2023	(33) China
(47) 26.07.2023	(51) F16K 27/00	(47) 28.06.2023
(51) F03D 7/02	F16K 11/16	(51) F21V 29/51
(11) EP3997334	F16K 31/524	F21V 29/50
(21) EP20780943.5	F16K 31/53	F21V 29/56
(22) 11.09.2020	A47J 31/46	H02K 9/00
(54) CONTROL DEVICE AND METHOD OF	(11) EP3855054	F21S 2/00
CONTROLLING A WIND TURBINE	(21) EP21152075.4	F21S 4/28
(73) Siemens Gamesa Renewable Energy A/	(22) 18.01.2021	A01G 7/04
S	(54) MULTIWAY VALVE FOR FLUID FOR	A01G 9/24
(72) NIELSEN, Anders Vangsgaard	A DRINK PREPARATION DEVICE,	F21V 23/04
(74) ir. W.J.J.M. Kempes	MULTI-FLUID MULTIWAY VALVE FOR	F21V 23/06
(31) 19200503	A DRINK PREPARATION DEVICE AND	F21W 131/40
(32) 30.09.2019	DRINK PREPARATION DEVICE, IN	F21Y 103/10
(33) European Patent Office (EPO)	PARTICULAR COFFEE MACHINE	F21Y 115/10

F21V 21/005	(47) 21.06.2023	(22) 23.11.2021
A01G 31/06	(51) F24D 3/10	(54) HEAT EXCHANGER PROVIDED WITH A PROTECTION AND REINFORCEMENT DEVICE FOR HEAT EXCHANGER PIPES
(11) EP3662201	(11) EP3690325	(73) LU-VE S.P.A.
(21) EP18848610.4	(21) EP20152910.4	(72) BORRONI, Angelo
(22) 27.08.2018	(22) 21.01.2020	FILIPPINI, Stefano
(54) FLUID-COOLED LED-BASED LIGHTING METHODS AND APPARATUS FOR CONTROLLED ENVIRONMENT AGRICULTURE	(54) FILLING DEVICE FOR COMBINED HEATERS	(74) dr. G. Visser-Luirink
(73) Agnetix, Inc.	(73) Bosch Termoteknik Isitma ve Klima Sanayi Ticaret Anonim Sirketi	(31) 20200028388
(72) LYS, Ihor	(72) Pekguzelsu, Mustafa	(32) 25.11.2020
MADERAS, Nicholas	Korkmaz, Caglar	(33) Italy
(74) ir. A. Blokland c.s.	Daglioz, Ozkan	(47) 14.06.2023
(31) 201862635499 P	Kirgiz, Saim	(51) F28D 15/02
201762550379 P	Erdogan, Hasan Cosan	F28F 3/06
(32) 26.02.2018	Ozer, Kerem	H05K 7/20
25.08.2017	(74) ir. H.A. Witmans c.s.	F28D 21/00
(33) United States of America	(31) 201900987	(11) EP3931511
United States of America	(32) 22.01.2019	(21) EP20763611.9
(47) 07.06.2023	(33) Türkiye	(22) 27.02.2020
(51) F22B 1/28	(47) 31.05.2023	(54) TWO-ORIENTATION CONDENSER FOR ENHANCED GRAVITY DRIVEN FILM CONDENSATION
(11) EP3676554	(51) F25B 49/02	(73) J R Thermal, LLC
(21) EP18778599.3	F25D 11/00	(72) RICE, Jeremy
(22) 28.08.2018	F25D 11/02	(74) ir. J.D. de Zeeuw
(54) CONTINUOUS HELICAL BAFFLE HEAT EXCHANGER	B60H 1/00	(31) 201962811231 P
(73) Watlow Electric Manufacturing Company	(11) EP3882540	(32) 27.02.2019
(72) DINAUER, Ethan	(21) EP19900446.6	(33) United States of America
TATAVARTHY, Satya	(22) 16.10.2019	(47) 28.06.2023
BOEHMER, Scott	(54) REFRIGERATION DEVICE FOR CONTAINERS	(51) G01C 21/32
ZHANG, Sanhong	(73) DAIKIN INDUSTRIES, LTD.	(11) EP2679956
(74) ir. A. Blokland c.s.	(72) UEHARA Yoshikazu	(21) EP13174510.1
(31) 201762550969 P	MIZUTANI Kazuhide	(22) 01.07.2013
(32) 28.08.2017	IGA Norio	(54) Method and Apparatus for Detecting Deviations from Map Data
(33) United States of America	IKEMIYA Makoto	(73) TomTom Global Content B.V.
(47) 14.06.2023	(74) ir. W.J.J.M. Kempes	(72) Martens, Gaëtan
(51) F23B 90/08	(31) 2018240128	(74) J.M.H. Duyver lic.
F23G 7/07	(32) 21.12.2018	(31) 201211636
(11) EP3535522	(33) Japan	(32) 29.06.2012
(21) EP17804696.7	(47) 19.07.2023	(33) United Kingdom
(22) 31.10.2017	(51) F25D 17/04	(47) 02.08.2023
(54) NON-BYPASSABLE CATALYST ASSISTED APPLIANCES	F25D 29/00	(51) G01D 11/24
(73) Jøtul AS	A01F 25/00	H05K 7/14
(72) PURINTON, Roger W.	A23B 7/148	(11) EP3997420
SPENCER, Shane L.	A23L 3/3418	(21) EP20733962.3
(74) dr. R.C. van Duijvenbode c.s.	A23B 7/144	(22) 18.06.2020
(31) 201662415863 P	A23B 9/18	(54) HOUSING MODULE AND FIELD DEVICE
(32) 01.11.2016	(11) EP3751222	(73) Endress + Hauser Flowtec AG
(33) United States of America	(21) EP19760821.9	(72) BEISSERT, Markus
(47) 31.05.2023	(22) 20.02.2019	BINZER, Martin
(51) F23G 7/08	(54) INSIDE AIR CONTROL APPARATUS AND CONTAINER REFRIGERATION APPARATUS EQUIPPED WITH THE SAME	MÜLLER, Harald
F23J 15/00	(73) DAIKIN INDUSTRIES, LTD.	(74) ir. W.J.J.M. Kempes
(11) EP3682166	(72) FUJIMOTO Yuusuke	(31) 102019118805
(21) EP18857338.0	KAMEI Noritaka	(32) 11.07.2019
(22) 10.09.2018	(74) ir. W.J.J.M. Kempes	(33) Germany
(54) LOW STEAM CONSUMPTION HIGH SMOKELESS CAPACITY WASTE GAS FLARE	(31) 2018033915	(47) 28.06.2023
(73) UOP LLC	(32) 27.02.2018	(51) G01D 21/00
(72) MARTIN, Matthew A	(33) Japan	G01F 1/00
MARTIN, Richard R	(47) 09.08.2023	G01F 23/00
KRAUS, Kurt E	(51) F28D 1/047	G01F 23/284
JENNINGS, Jay D	F28F 9/26	(11) EP3850312
(74) ir. W.J.J.M. Kempes	F16L 13/02	(21) EP19756140.0
(31) 201762559318 P	F16L 13/08	(22) 13.08.2019
(32) 15.09.2017	F28F 9/18	
(33) United States of America	(11) EP4006473	
	(21) EP21209999.8	

- (54) MEASURING-DEVICE SYSTEM AND MEASURING ASSEMBLY FORMED THEREWITH  
(73) Endress + Hauser Flowtec AG  
(72) KIRST, Michael  
(74) ir. W.J.J.M. Kempes  
(31) 102018122014  
(32) 10.09.2018  
(33) Germany  
(47) 14.06.2023
- 
- (51) G01D 21/00  
H05K 5/02  
H05K 7/14  
G01D 11/24  
(11) EP3997970  
(21) EP20734149.6  
(22) 18.06.2020
- (54) HOUSING MODULE AND FIELD DEVICE  
(73) Endress + Hauser Flowtec AG  
(72) BEISSERT, Markus  
FIEDLER, Marc  
MÜLLER, Harald  
(74) ir. W.J.J.M. Kempes  
(31) 102019118778  
(32) 11.07.2019  
(33) Germany  
(47) 28.06.2023
- 
- (51) G01F 1/58  
(11) EP3814725  
(21) EP19726670.3  
(22) 23.05.2019
- (54) MAGNETICALLY INDUCTIVE FLOWMETER AND METHOD FOR PRODUCING SUCH A MAGNETICALLY INDUCTIVE FLOWMETER  
(73) Endress + Hauser Flowtec AG  
(72) SULZER, Thomas  
TRIEBENBACHER, Simon  
FUCHS, Michael  
MARIAGER, Simon  
(74) ir. W.J.J.M. Kempes  
(31) 102018115629  
(32) 28.06.2018  
(33) Germany  
(47) 28.06.2023
- 
- (51) G01F 1/84  
G01N 9/00  
(11) EP3559607  
(21) EP17803927.7  
(22) 22.11.2017
- (54) VIBRATORY TYPE METER FOR MEASURING THE DENSITY AND/OR FLOW RATE OF A FLOWING MEDIUM  
(73) Endress+Hauser Flowtec AG  
(72) ZHU, Hao  
RIEDER, Alfred  
BITTO, Ennio  
ECKERT, Gerhard  
(74) ir. W.J.J.M. Kempes  
(31) 102016125616  
(32) 23.12.2016  
(33) Germany  
(47) 21.06.2023
- 
- (51) G01F 23/26  
G01L 1/14  
H04N 5/247  
G06Q 10/08
- (11) EP3384250  
(21) EP16873683.3  
(22) 06.12.2016
- (54) INVENTORY MANAGEMENT DEVICE  
(73) Adrich, Inc.  
(72) AJI, Adhithi, Venkatesh  
(74) dr. R.C. van Duijvenbode c.s.  
(31) 201562263688 P  
(32) 06.12.2015  
(33) United States of America  
(47) 07.06.2023
- 
- (51) G01G 19/44  
(11) EP3795958  
(21) EP20197196.7  
(22) 21.09.2020
- (54) SCALE  
(73) Leifheit AG  
(72) BOSSCHER, Eric  
(74) ir. J.C. Volmer c.s.  
(31) 102019125385  
(32) 20.09.2019  
(33) Germany  
(47) 07.06.2023
- 
- (51) G01J 1/04  
G01J 1/42  
G01J 1/02  
G01J 5/04  
G01J 5/06  
G02B 7/00  
G01J 5/12  
G01J 5/061  
G01J 5/0803  
(11) EP3875928  
(21) EP20160885.8  
(22) 04.03.2020
- (54) TRANSPARENT DOME FOR A PYRANOMETER  
(73) OTT HydroMet B.V.  
(72) NIEUWVEEN, Robertus Dennis  
STAUPE, Ilya Xander  
KOREVAAR, Marc Albert  
MES, Joop  
(74) dr. R.C. van Duijvenbode c.s.  
(47) 05.07.2023
- 
- (51) G01N 21/00  
G01N 21/88  
G01N 21/84  
H04N 5/225  
(11) EP2691759  
(21) EP12776025.4  
(22) 27.04.2012
- (54) HIGH FLUX COLLIMATED ILLUMINATOR AND METHOD OF UNIFORM FIELD ILLUMINATION  
(73) Siemens Healthcare Diagnostics Inc.  
(72) JASPERSE, Jeffrey, R.  
(74) dr. R.C. van Duijvenbode c.s.  
(31) 201161480426 P  
(32) 29.04.2011  
(33) United States of America  
(47) 31.05.2023
- 
- (51) G01N 21/31  
G01N 21/35  
G01N 21/47  
(11) EP3365660  
(21) EP16794077.4  
(22) 18.10.2016
- (54) WATER CONTENT OF A PART OF PLANT EVALUATION METHOD AND WATER CONTENT OF A PART OF PLANT EVALUATION APPARATUS  
(73) Panasonic Intellectual Property Management Co., Ltd.  
(72) FUJIYAMA, Takeshi  
TERASHIMA, Yuuji  
(74) ir. W.J.J.M. Kempes  
(31) 2015209231  
2015209230  
(32) 23.10.2015  
23.10.2015  
(33) Japan  
Japan  
(47) 09.08.2023
- 
- (51) G01N 21/88  
G01N 21/896  
G01N 21/958  
(11) EP3572802  
(21) EP19174368.1  
(22) 14.05.2019
- (54) METHOD FOR DETECTING DISCONTINUITIES IN A TRANSLUCENT ARTICLE  
(73) EYYES GmbH  
(72) Traxler, Johannes  
(74) ir. W.J.J.M. Kempes  
(31) 504262018  
(32) 24.05.2018  
(33) Austria  
(47) 21.06.2023
- 
- (51) G01N 27/62  
H01J 49/02  
(11) EP3779429  
(21) EP20200610.2  
(22) 15.05.2013
- (54) COMPACT HIGH VOLTAGE RF GENERATOR USING A SELF-RESONANT INDUCTOR  
(73) Smiths Detection-Watford Limited  
(72) HILEY, Alex Paul  
(74) ir. F.A. Geurts c.s.  
(31) 201261647143 P  
(32) 15.05.2012  
(33) United States of America  
(47) 07.06.2023
- 
- (51) G01N 33/543  
G01N 33/569  
C12Q 1/04  
B01L 99/00  
(11) EP3475702  
(21) EP17814901.9  
(22) 23.06.2017
- (54) MEASURING TRAIL BY LATERAL FLOW IMMUNOASSAY  
(73) Memed Diagnostics Ltd.  
(72) BOICO, Olga  
OVED, Kfir  
EDEN, Eran  
COHEN-DOTAN, Assaf  
KRONENFELD, Gali  
NAVON, Roy  
(74) ir. W.J.J.M. Kempes  
(31) 201662353697 P  
(32) 23.06.2016  
(33) United States of America  
(47) 14.06.2023

(51) G01R 31/12	(32) 06.09.2017	(11) EP3617758
(11) EP3929600	(33) Germany	(21) EP18790050.1
(21) EP21181381.1	(47) 31.05.2023	(22) 27.04.2018
(22) 24.06.2021	(51) G01S 7/02	(54) COMPOSITION FOR FORMING
(54) METHOD FOR BROADBAND	G01S 13/32	OPTICAL WAVEGUIDE
ULTRASONIC DETECTION OF	G01S 13/93	WHICH CONTAINS REACTIVE
ELECTRICAL DISCHARGES	G01S 13/931	SILSESQUIOXANE COMPOUND
(73) Sonotec GmbH	G01S 7/35	(73) Nissan Chemical Corporation
(72) HOLSTEIN, Peter	(11) EP3451015	(72) OHMORI, Kentaro
THARANDT, Andreas	(21) EP18179369.6	NAGASAWA, Takehiro
BADER, Nicki	(22) 22.06.2018	KASHINO, Tsubasa
MOECK, Steffen	(54) METHOD AND APPARATUS FOR	TADOKORO, Sayoko
MÜNCH, Michael	DETECTING OBJECT USING RADAR	(74) dr. ir. F.M. van Bouwelen
SCHREIBER, Christian	OF VEHICLE	(31) 2017090221
(74) dr. A. Ellens c.s.	(73) Samsung Electronics Co., Ltd.	(32) 28.04.2017
(31) 102020116622	(72) Kim, Donghan	(33) Japan
(32) 24.06.2020	Lee, Jaesup	(47) 09.08.2023
(33) Germany	(74) dr. ir. G.J.C. Verdijck c.s.	(51) G02B 26/12
(47) 07.06.2023	(31) 20170108572	B23K 26/046
(51) G01R 31/3842	(32) 28.08.2017	B23K 26/082
G01R 31/387	(33) Korea (Republic)	B23K 26/12
(11) EP3792646	(47) 16.08.2023	B23K 26/064
(21) EP20178548.2	(51) G01V 1/30	B23K 26/0622
(22) 05.06.2020	G01V 1/28	B23K 26/38
(54) METHOD FOR UPDATING CAPACITY	(11) EP3203269	B23K 26/402
OF BATTERY, DEVICE FOR UPDATING	(21) EP17305080.8	B23K 26/06
CAPACITY OF BATTERY, ELECTRONIC	(22) 25.01.2017	B23K 103/16
DEVICE, AND STORAGE UNIT	(54) MULTI-STACK (BROADBAND) SEISMIC	(11) EP3812826
(73) Dongguan NVT Technology Limited	WAVELET ESTIMATION METHOD	(21) EP19826698.3
(72) ZHANG, Bai-Qing	(73) CGG Services SAS	(22) 19.06.2019
SUN, Ya-Qing	(72) DEBEYE, Harry	(54) LIGHTGUIDE DEVICE AND LASER
XIE, Hong	MESDAG, Peter	PROCESSING DEVICE
WANG, Zhi-Feng	SCHAKEL, Menne	(73) Kawasaki Jukogyo Kabushiki Kaisha
(74) J.M.H. Duyver lic.	NURIJANYAN, Shavarsh	(72) NAKAZAWA, Mutsuhiro
(31) 201910866407	(74) ir. W.J.J.M. Kempes	(74) ir. W.J.J.M. Kempes
(32) 12.09.2019	(31) 201662290472 P	(31) 2018119597
(33) China	(32) 03.02.2016	(32) 25.06.2018
(47) 26.07.2023	(33) United States of America	(33) Japan
(51) G01R 31/52	(47) 31.05.2023	(47) 26.07.2023
G01R 31/396	(51) G02B 5/04	(51) G02B 27/01
(11) EP3756019	G02B 5/124	G02B 1/00
(21) EP19704267.4	B32B 38/06	(11) EP3792682
(22) 04.02.2019	(11) EP2893381	(21) EP20200714.2
(54) GROUND FAULT DETECTION	(21) EP14719129.0	(22) 14.06.2016
(73) Siemens Energy AS	(22) 10.03.2014	(54) DISPLAY SYSTEM WITH OPTICAL
(72) ELIASSEN, Sivert	(54) MULTI-LAYER MICROPRISMATIC	ELEMENTS FOR IN-COUPPLING
(74) dr. R.C. van Duijvenbode c.s.	RETROREFLECTIVE SHEETING AND	MULTIPLEXED LIGHT STREAMS
(31) 201802923	METHOD OF MANUFACTURING THE	(73) Magic Leap, Inc.
(32) 23.02.2018	SAME	(72) ST HILAIRE, Pierre
(33) United Kingdom	(73) Aura Optical Systems, LP	MILLER, Michael Nevin
(47) 21.06.2023	(72) LU, Siyao	SINGH, Vikramjit
(51) G01R 33/30	BUONI, Drew	SCHOWENGERDT, Brian T.
(11) EP3679384	LU, Jutao	SUN, Jie
(21) EP18769621.6	LU, Wnyu	KLUG, Michael Anthony
(22) 06.09.2018	(74) J.M.H. Duyver lic.	PEROZ, Christophe
(54) PRESSURE-RESISTANT, 3D PRINTED	(31) 201414200373	(31) 201562180551 P
NMR FLOW CELL	201361777608 P	201562175994 P
(73) Bundesrepublik Deutschland, vertreten	(32) 07.03.2014	(32) 16.06.2015
durch das Bundesministerium für	12.03.2013	15.06.2015
Wirtschaft und Technologie	(33) United States of America	(33) United States of America
Lapp Insulators Alumina GmbH	United States of America	United States of America
(72) KERN, Simon	(47) 14.06.2023	(47) 09.08.2023
MEYER, Klas	(51) G02B 6/12	(51) G02B 27/01
MAIWALD, Michael	C08F 220/20	G02C 7/06
WAMPERS, Holger	C08F 230/08	G02B 27/20
BORNEMANN, Martin	C08F 290/06	(11) EP3440497
(74) ir. W.J.J.M. Kempes	C08G 77/04	(21) EP17779755.2
(31) 102017120510	G02B 1/04	(22) 05.04.2017

(54) AUGMENTED REALITY SYSTEMS AND METHODS WITH VARIABLE FOCUS LENS ELEMENTS	B07C 3/02 B07C 3/14 G06Q 10/08	(73) Apple Inc. (72) MILLET, Timothy J. DE CESARE, Joshua P. CHO, Jung Wook TAKAYANAGI, Toshi
(73) Magic Leap, Inc.	(11) EP3789837	(74) ir. A.R. Aalbers
(72) MILLER, Samuel, A. GRECO, Paul, M. SCHOWENGERDT, Brian, T.	(21) EP20204823.7 (22) 02.12.2016	(31) 75600610 (32) 07.04.2010
(31) 201662320375 P	(54) SYSTEMS AND METHODS FOR DYNAMIC PROCESSING OF OBJECTS	(33) United States of America
(32) 08.04.2016	(73) Berkshire Grey Operating Company, Inc.	(47) 16.08.2023
(33) United States of America	(72) WAGNER, Thomas	<hr/>
(47) 16.08.2023	DAWSON-HAGGERTY, Michael	(51) G06F 3/01
(51) G02F 1/1333	GEYER, Christopher	G02B 27/00
(11) EP3528040	VELAGAPUDI, Prasanna	G02B 27/01
(21) EP19157069.6	ALLEN, Thomas	G06F 3/04815
(22) 14.02.2019	COHEN, Benjamin	(11) EP3559786
(54) DISPLAY DEVICE INCLUDING A CUSHION LAYER HAVING MEMBERS WITH DIFFERENT MODULI	SMITH, Daniel	(21) EP17826644.1
(73) Samsung Display Co., Ltd.	SRINIVASA, Siddhartha	(22) 14.12.2017
(72) Kim, Se Bong	ROMANO, Joseph	(54) SYSTEM AND METHOD FOR PLACEMENT OF AUGMENTED REALITY INFORMATION FOR USERS BASED ON THEIR ACTIVITY
(74) drs. A.A. Jilderda	KOLETSCHKA, Thomas	(73) InterDigital VC Holdings, Inc.
(31) 20180018513	PRICE, Gene Temple	(72) SINGH, Mona
(32) 14.02.2018	MASON, Matthew T	(74) dr. R.C. van Duijvenbode c.s.
(33) Korea (Republic)	AHEARN, Kevin	(31) 201662437455 P
(47) 30.08.2023	MARONEY, Kyle	(32) 21.12.2016
(51) G03F 7/20	(74) ir. W.J.J.M. Kempes	(33) United States of America
F21V 14/00	(31) 201562265181 P	(47) 26.07.2023
(11) EP2956714	201562263050 P	<hr/>
(21) EP14751032.5	(32) 09.12.2015	(51) G06F 3/01
(22) 11.02.2014	04.12.2015	G07C 9/00
(54) METHODS AND APPARATUS FOR USE WITH EXTREME ULTRAVIOLET LIGHT HAVING CONTAMINATION PROTECTION	(33) United States of America	G06F 3/0346
(73) Sandia Corporation	United States of America	G07C 9/28
Kla-Tencor Corporation	(47) 21.06.2023	(11) EP3894996
(72) GARCIA, Rudy	(51) G05B 23/02	(21) EP19842910.2
RADER, Daniel S.	(11) EP3671385	(22) 12.12.2019
DELGADO, Gildardo R.	(21) EP18214501.1	(54) GESTURE BASED SECURITY SYSTEM
CHILESE, Frank	(22) 20.12.2018	(73) Carrier Corporation
GELLER, Anthony S.	(54) METHOD OF DETERMINING THE TIME INTERVAL UNTIL A SERVICE ACTION IS REQUIRED	(72) BERRY, Greg
KLEBANOFF, Leonard E.	(73) Endress+Hauser Group Services AG	(74) J.M.H. Duyver lic.
TORCZYNSKI, John, R.	(72) Vaissiere, Dimitri	(31) 201862779528 P
GALLIS, Michail A.	(74) ir. W.J.J.M. Kempes	(32) 14.12.2018
(74) ir. W.J.J.M. Kempes	(47) 09.08.2023	(33) United States of America
(31) 201414176587	(51) G06F 1/20	(47) 23.08.2023
201361765143 P	H05K 7/20	<hr/>
(32) 10.02.2014	(11) EP3787386	(51) G06F 3/041
15.02.2013	(21) EP201911150.0	G06F 3/044
(33) United States of America	(22) 14.08.2020	(11) EP3571572
United States of America	(54) LIQUID SOLUBLE GAS SEALED COOLING SYSTEM	(21) EP17835788.5
(47) 02.08.2023	(73) Google LLC	(22) 04.08.2017
(51) G03G 15/00	(72) BENDER, Shawn Emory	(54) FLEXIBLE TOUCH PANEL AND DISPLAY APPARATUS
(11) EP3936941	PADILLA, Jorge	(73) BOE Technology Group Co., Ltd.
(21) EP21183911.3	(74) ir. H.Th. van den Heuvel c.s.	(72) SHI, Shiming
(22) 06.07.2021	(31) 201916555831	DONG, Tian
(54) IMAGE FORMING APPARATUS AND IMAGE FORMING METHOD	(32) 29.08.2019	(74) ir. W.J.J.M. Kempes
(73) Ricoh Company, Ltd.	(33) United States of America	(31) 201710051816
(72) MURAKAMI, Masatoshi	(47) 07.06.2023	(32) 20.01.2017
(74) ir. H.A. Witmans c.s.	(51) G06F 1/32	(33) China
(31) 2020116364	G06F 1/3203	(47) 19.07.2023
(32) 06.07.2020	G06F 1/3237	<hr/>
(33) Japan	G06F 1/3287	(51) G06F 3/041
(47) 31.05.2023	(11) EP3872604	G06F 3/044
(51) G05B 19/418	(21) EP21169823.8	G09G 3/3225
B65G 47/96	(22) 07.04.2011	G09G 3/3233
B07C 3/00	(54) HARDWARE AUTOMATIC PERFORMANCE STATE TRANSITIONS IN SYSTEM ON PROCESSOR SLEEP AND WAKE EVENTS	G09G 3/3266
		H10K 50/844
		H10K 59/40
		H10K 77/10
		H10K 102/00
		(11) EP3637235

(21) EP19212761.1	06.05.2019	(74) ir. W.J.J.M. Kempes
(22) 24.07.2017	(33) Denmark	(31) 202017133414
(54) DISPLAY DEVICE	Denmark	(32) 23.12.2020
(73) Samsung Display Co., Ltd.	Denmark	(33) United States of America
(72) Ku, Keunlim	Denmark	(47) 12.07.2023
Lee, Jaehyun	Denmark	(51) G06F 13/00
Jung, Changyong	Denmark	H04N 5/445
Jun, Sanghyun	Denmark	(11) EP3502907
(74) drs. A.A. Jilderda	United States of America	(21) EP18204519.5
(31) 20160097497	United States of America	(22) 07.09.2007
(32) 29.07.2016	United States of America	(54) METHOD AND SYSTEM TO NAVIGATE
(33) Korea (Republic)	United States of America	VIEWABLE CONTENT
(47) 30.08.2023	United States of America	(73) OpenTV, Inc.
(51) G06F 3/048	United States of America	(72) PERING, Celine
(11) EP3736676	United States of America	HUNTINGTON, Matthew
(21) EP20168009.7	United States of America	ZELDIS, Andrew
(22) 03.04.2020	United States of America	ROTTLER, Benjamin A.
(54) USER INTERFACES FOR CAPTURING	United States of America	KANAREK, Jordan
AND MANAGING VISUAL MEDIA	(47) 19.07.2023	TERADA, Gina
(73) Apple Inc.	(51) G06F 3/12	NAZARIAN, David Scott
(72) MANZARI, Johnnie Behkish	H04N 1/00	MARR, Jared
SOUZA DOS SANTOS, Andre	H04N 1/32	MERKOSKI, David A.
PAUL, Grant	H04N 1/387	WAGNER, Joshua
HUBEL, Paul	(11) EP3143491	(74) ir. J.D. de Zeeuw
SORRENTINO III, William A.	(21) EP15793337.5	(31) 911009 P
McCORMACK, Jon	(22) 07.05.2015	842735 P
GIRLING, Lukas Robert Tom	(54) INFORMATION PROCESSING	(32) 10.04.2007
DESHPANDE, Alok	SYSTEM, INFORMATION	07.09.2006
HANKEY, M. Evans	PROCESSING APPARATUS AND	(33) United States of America
DYE, Alan C.	INFORMATION PROCESSING	United States of America
FEDERIGHI, Craig M.	METHOD	(47) 28.06.2023
LUPINETTI, Nick	(73) Ricoh Company, Ltd.	(51) G06F 21/10
PRESTON, Daniel Trent	(72) HAYANO, Hideaki	A62C 99/00
BROUGHTON, Lee S.	(74) ir. H.A. Witmans c.s.	(11) EP3761195
(74) ir. J.C. Volmer c.s.	(31) 2014100518	(21) EP19186341.4
(31) PA201970605	(32) 14.05.2014	(22) 15.07.2019
PA201970603	(33) Japan	(54) METHOD FOR VERIFYING AN
PA201970601	(47) 31.05.2023	OXYGEN REDUCTION PLANT
PA201970600	(51) G06F 9/54	(73) Wagner Group GmbH
PA201970595	G06F 9/448	(72) Henkel, Andreas
PA201970592	(11) EP3999964	Beckers, Stefan
PA201970593	(21) EP20737491.9	(74) ir. A.R. Aalbers
201916586344	(22) 15.07.2020	(31) 102019117651
201916586314	(54) PROCESSING DEVICE AND METHOD	(32) 01.07.2019
201916584693	OF OPERATING THE SAME	(33) Germany
201916584100	(73) GrAl Matter Labs S.A.S.	(47) 07.06.2023
201916584044	(72) PIRES DOS REIS MOREIRA, Orlando	(51) G06F 21/56
201916582595	Miguel	G06F 21/57
201916583020	CINSERIN, Göktürk	(11) EP3739484
201962897968 P	(74) ir. H.A. Witmans c.s.	(21) EP20171215.5
201962856036 P	(31) 19186361	(22) 23.04.2020
201962844110 P	(32) 15.07.2019	(54) METHOD AND SYSTEM FOR
(32) 27.09.2019	(33) European Patent Office (EPO)	DETECTION OF POST COMPILATION
26.09.2019	(47) 02.08.2023	MODIFICATION OF BINARY IMAGES
26.09.2019	(51) G06F 12/0862	(73) BlackBerry Limited
26.09.2019	G06F 12/1027	(72) Boulton, Adam John
26.09.2019	G06F 9/38	(74) ir. W.J.J.M. Kempes
26.09.2019	G06F 9/30	(31) 201916412998
26.09.2019	G06F 12/1045	(32) 15.05.2019
27.09.2019	(11) EP4020228	(33) United States of America
27.09.2019	(21) EP21197392.0	(47) 21.06.2023
26.09.2019	(22) 17.09.2021	(51) G06N 3/00
26.09.2019	(54) DEVICE, SYSTEM AND METHOD FOR	(11) EP3485432
26.09.2019	SELECTIVELY DROPPING SOFTWARE	(21) EP17745599.5
25.09.2019	PREFETCH INSTRUCTIONS	(22) 18.07.2017
25.09.2019	(73) Intel Corporation	(54) TRAINING MACHINE LEARNING
09.09.2019	(72) Heiman, Wim	MODELS ON MULTIPLE MACHINE
01.06.2019	Hur, Ibrahim	LEARNING TASKS

(73) DeepMind Technologies Limited	G10L 25/63	CHIMMALGI, Anant
(72) DESJARDINS, Guillaume	H04N 7/14	SOLARZ, Richard
PASCANU, Razvan	G06V 10/75	YADAV, Rahul
HADSELL, Raia Thais	G06Q 30/02	SHCHEMELININ, Anatoly
KIRKPATRICK, James	G10L 25/57	WILSON, Lauren
RABINOWITZ, Neil Charles	(11) EP3399467	GROSS, Kenneth P.
VENESS, Joel William	(21) EP18179336.5	BEZEL, Ilya
(74) ir. H.A. Witmans c.s.	(22) 18.03.2016	(74) ir. W.J.J.M. Kempes
(31) 201662363652 P	(54) EMOTION RECOGNITION IN VIDEO	(31) 201615223335
(32) 18.07.2016	CONFERENCING	201662341532 P
(33) United States of America	(73) Snap Inc.	(32) 29.07.2016
(47) 31.05.2023	(72) MONASTYRSHYN, Yurii	25.05.2016
(51) G06N 10/20	SHABUROV, Victor	(33) United States of America
G06N 10/80	(74) ir. F.A. Geurts c.s.	United States of America
(11) EP3711003	(31) 201514661539	(47) 02.08.2023
(21) EP18837006.8	(32) 18.03.2015	(51) H01L 21/268
(22) 13.12.2018	(33) United States of America	(11) EP3513424
(54) QUANTUM SIMULATION OF REAL	(47) 21.06.2023	(21) EP17851197.8
TIME EVOLUTION OF LATTICE	(51) G08B 21/04	(22) 27.01.2017
HAMILTONIANS	G08B 27/00	(54) UV RADIATION METHOD FOR
(73) Microsoft Technology Licensing, LLC	G08B 21/02	ARSENIC OUTGASSING CONTROL IN
(72) KOTHARI, Robin	(11) EP3485474	SUB 7NM CMOS FABRICATION
HAAH, Jeongwan	(21) EP17828464.2	(73) Applied Materials, Inc.
LOW, Guang H.	(22) 13.07.2017	(72) YAN, Chun
HASTINGS, Matthew B.	(54) PATIENT MONITORING SYSTEM	CHUNG, Hua
(74) J.M.H. Duyver lic.	(73) Palarum, LLC	CHU, Schubert S.
(31) 201816020715	(72) BAKER, Patrick	BAO, Xinyu
201762609651 P	WOLFE, Glenn	(74) ir. A. Blokland c.s.
(32) 27.06.2018	STEELE, Jeffery Ryon	(31) 201662395931 P
22.12.2017	(74) ir. F.A. Geurts c.s.	(32) 16.09.2016
(33) United States of America	(31) 201662361548 P	(33) United States of America
United States of America	(32) 13.07.2016	(47) 26.07.2023
(47) 02.08.2023	(33) United States of America	(51) H01L 21/66
(51) G06Q 10/08	(47) 31.05.2023	G01B 5/00
B65G 1/137	(51) G10L 19/22	G01B 11/00
A47B 81/00	G10L 21/038	G01B 21/04
A61J 3/00	G10L 19/24	(11) EP3721471
(11) EP3812312	G10L 19/008	(21) EP18891941.9
(21) EP19844012.5	(11) EP3745397	(22) 17.12.2018
(22) 13.06.2019	(21) EP20183981.8	(54) METHOD FOR MEASURING
(54) DRUG STORAGE BOX	(22) 16.03.2015	POSITIONS OF STRUCTURES ON A
(73) PHC Holdings Corporation	(54) DECODING DEVICE AND DECODING	SUBSTRATE
(72) MORII, Hideyuki	METHOD, AND PROGRAM	(73) KLA-TENCOR CORPORATION
TAKAGI, Susumu	(73) Sony Group Corporation	(72) ACHE, Oliver
OKUDA, Akinobu	(72) Chinen, Toru	LASKE, Frank
(74) dr. R.C. van Duijvenbode c.s.	Nishiguchi, Masayuki	(74) ir. W.J.J.M. Kempes
(31) 2018146382	Shi, Runyu	(31) 201816007192
(32) 03.08.2018	Hatanaka, Mitsuyuki	201762607170 P
(33) Japan	Yamamoto, Yuki	(32) 13.06.2018
(47) 02.08.2023	(74) ir. W.J.J.M. Kempes	18.12.2017
(51) G06V 10/44	(31) 2014136633	(33) United States of America
G06V 20/56	2014060486	United States of America
(11) EP3905116	(32) 02.07.2014	(47) 09.08.2023
(21) EP21167294.4	24.03.2014	(51) H01L 21/67
(22) 07.04.2021	(33) Japan	H01L 21/677
(54) IMAGE PROCESSING SYSTEM	Japan	H01L 21/687
FOR IDENTIFYING AND TRACKING	(47) 07.06.2023	(11) EP3510633
OBJECTS	(51) H01J 65/04	(21) EP17768909.8
(73) FotoNation Limited	H05G 2/00	(22) 05.09.2017
(72) SANDOI, Bogdan	(11) EP3466220	(54) SUBSTRATE PROCESSING
TOCA, Cosmin	(21) EP17803325.4	APPARATUS
BIGIOI, Petronel	(22) 19.05.2017	(73) Brooks Automation US, LLC
(74) ir. J.D. de Zeeuw	(54) SYSTEM FOR INHIBITING VUV	(72) SHARROCK, Leigh, F.
(31) 202063017165 P	RADIATIVE EMISSION OF A LASER-	JARZYNSKA, Dave
(32) 29.04.2020	SUSTAINED PLASMA SOURCE	MCKINNEY, Stacy
(33) United States of America	(73) Kla-Tencor Corporation	LETOURNEAU, Kyle, M.
(47) 09.08.2023	(72) WITTENBERG, Joshua	CAVINS, Jeffrey, A.
(51) G06V 40/16	BHUIYAN, Aizaz	(74) ir. F.A. Geurts c.s.



(31) 201715693871 201662385150 P	SONG, Hyeon Min CHOI, Junghyun	(72) VEERMAN, Joost KUNTENG, Damnearn
(32) 01.09.2017 08.09.2016	PARK, Younguk PARK, Han Sol	GOETING, Christiaan Haldir (74) dr. ir. G.J.C. Verdijck c.s.
(33) United States of America United States of America	PARK, Sunghae KWAK, Jingoo	(31) 2023035 (32) 30.04.2019
(47) 31.05.2023	SUNG, Joo Hwan	(33) Netherlands
(51) H01L 31/02 H02S 40/34	KIM, Sue Jin JANG, Jinsu	(47) 07.06.2023
(11) EP2206159	(74) dr. R.C. van Duijvenbode c.s.	(51) H01M 10/052 H01M 10/056
(21) EP08845104.2	(31) 20190072305	(11) EP2991153
(22) 30.10.2008	20180127486	(21) EP15182337.4
(54) APPARATUSES AND METHODS TO REDUCE SAFETY RISKS ASSOCIATED WITH PHOTOVOLTAIC SYSTEMS	(32) 18.06.2019 24.10.2018	(22) 25.08.2015
(73) Tigo Energy, Inc.	(33) Korea (Republic) Korea (Republic)	(54) COMPOSITE ELECTROLYTE AND LITHIUM BATTERY INCLUDING THE SAME
(72) KIKINIS, Dan POWELL, Earl G. ARDITI, Shmuel HADAR, Ron	(47) 02.08.2023	(73) Samsung Electronics Co., Ltd.
(74) J.M.H. Duyver lic.	(51) H01M 4/134 H01M 4/38 H01M 4/70 H01M 4/66	(72) LEE, Jenam KIM, Soyeon LEE, Seoksoo KIM, Jusik
(31) 254780 1587 P	(11) EP3444874	PARK, Joungwon
(32) 20.10.2008	(21) EP17859641.7	LEE, Myungjin
02.11.2007	(22) 13.10.2017	LEE, Yonggun
(33) United States of America United States of America	(54) NEGATIVE ELECTRODE FOR SECONDARY BATTERY	CHOI, Hongsoo
(47) 12.07.2023	(73) LG Energy Solution, Ltd.	(74) ir. H.A. Witmans c.s.
(51) H01L 31/0232 H01L 27/146 H01L 31/0352 H01L 31/105 H01L 27/144	(72) CHO, Jin Hyun YUN, Hyun Woong	(31) 20150067599 20140113357
(11) EP3769343	(74) dr. ir. F.M. van Bouwelen	(32) 14.05.2015 28.08.2014
(21) EP19716309.0	(31) 20170129710 20160133470	(33) Korea (Republic) Korea (Republic)
(22) 21.03.2019	(32) 11.10.2017 14.10.2016	(47) 23.08.2023
(54) PHOTODETECTOR	(33) Korea (Republic) Korea (Republic)	(51) H01Q 1/22 H01Q 21/00 H01L 23/00
(73) IEE International Electronics & Engineering S.A.	(47) 09.08.2023	(11) EP3956942
(72) HERSCHBACH, Norbert PAULY, Christian	(51) H01M 4/587 H01M 4/133 H01M 10/0525 H01M 10/0566 H01M 4/134 H01M 50/411	(21) EP20761450.4 (22) 11.08.2020
(74) ir. H.A. Witmans c.s.	(11) EP3902038	(54) INTEGRATED STRUCTURES WITH ANTENNA ELEMENTS AND IC CHIPS EMPLOYING EDGE CONTACT CONNECTIONS
(31) 100953 100743	(21) EP21179222.1	(73) Viasat, Inc.
(32) 03.10.2018 22.03.2018	(22) 13.10.2017	(72) FRANSON, Steven J. MATHEWS, Douglas J.
(33) Luxembourg Luxembourg	(54) LARGE-FORMAT BATTERY ANODES COMPRISING SILICON PARTICLES	(74) dr. W.A.H.M. Van Borm
(47) 07.06.2023	(73) Tesla, Inc.	(31) 201916538197
(51) H01M 4/133 H01M 4/131 H01M 4/134 H01M 4/36 H01M 4/587 H01M 4/48 H01M 4/38 H01M 10/052 H01M 4/02	(72) Evans, Tyler Piper, Daniela Molina	(32) 12.08.2019
(11) EP3754762	(74) ir. W.J.J.M. Kempes	(33) United States of America
(21) EP19876531.5	(31) 201662407938 P	(47) 07.06.2023
(22) 26.06.2019	(32) 13.10.2016	(51) H01R 9/05 H01R 13/40 H01R 13/52 H01R 43/04 H01R 43/16 H01R 43/26
(54) ANODE INCLUDING GRAPHITE AND SILICON-BASED MATERIAL HAVING DIFFERENT DIAMETERS AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME	(33) United States of America	(11) EP3308429
(73) LG Energy Solution, Ltd.	(47) 19.07.2023	(21) EP16808328.5
(72) CHO, Minsu	(51) H01M 8/22 B01D 61/00 C02F 1/00 C02F 1/469	(22) 10.06.2016
	(11) EP3963655	(54) COAXIAL CONNECTOR HAVING AN OUTER CONDUCTOR ENGAGER
	(21) EP20728234.4	(73) PPC Broadband, Inc.
	(22) 30.04.2020	(72) WATKINS, Harold John
	(54) CAPACITIVE ELECTRODE, MEMBRANE STACK COMPRISING ELECTRODE AND METHOD FOR MANUFACTURING SUCH ELECTRODE	(74) ir. H.Th. van den Heuvel c.s.
	(73) Redstack B.V.	(31) 201562254171 P 201562173906 P
		(32) 11.11.2015

10.06.2015	03.02.2017	(32) 20.06.2017
(33) United States of America	09.01.2017	(33) China
United States of America	(33) European Patent Office (EPO)	(47) 26.07.2023
(47) 24.05.2023	European Patent Office (EPO)	
(51) H03L 7/085	European Patent Office (EPO)	(51) H04L 5/00
H03L 7/087	(47) 02.08.2023	H04L 5/14
H03L 7/093	(51) H04B 7/204	H04L 1/1829
H03L 7/099	H04B 7/06	H04L 1/1867
(11) EP3975430	(11) EP3957001	H04W 72/20
(21) EP21193062.3	(21) EP20724300.7	(11) EP3982584
(22) 25.08.2021	(22) 15.04.2020	(21) EP21197829.1
(54) HIGH-RESOLUTION AND AGILE	(54) PAST EVENT SIGNAL TRACKING	(22) 25.07.2013
FREQUENCY MEASUREMENT	(73) Viasat, Inc.	(54) METHOD AND APPARATUS
(73) INTEL Corporation	(72) HANCHARIK, David	FOR TRANSMITTING CONTROL
(72) LEVINGER, Run	(74) dr. W.A.H.M. Van Borm	CHANNEL IN INTRA-CELL CARRIER
SHUMAKER, Evgeny	(31) 201962834912 P	AGGREGATION SYSTEM
DEGANI, Ofir	(32) 16.04.2019	(73) Samsung Electronics Co., Ltd.
BERSHANSKY, Sergey	(33) United States of America	(72) CHO, Joonyoung
(74) ir. W.J.J.M. Kempes	(47) 07.06.2023	KIM, Youngbum
(31) 202017033122	(51) H04L 5/00	JI, Hyoungju
(32) 25.09.2020	(11) EP3577832	CHOI, Seunghoon
(33) United States of America	(21) EP18706051.2	(74) dr. R.C. van Duijvenbode c.s.
(47) 12.07.2023	(22) 02.02.2018	(31) 20130014018
(51) H04B 7/0452	(54) TRANSMISSION AND RECEPTION	20120081428
H04W 72/04	OF PHYSICAL DOWNLINK CONTROL	(32) 07.02.2013
(11) EP3704803	CHANNELS	25.07.2012
(21) EP17812268.5	(73) InterDigital Patent Holdings, Inc.	(33) Korea (Republic)
(22) 31.10.2017	(72) BOROUJENI, Mahmoud Taherzadeh	Korea (Republic)
(54) MU-MIMO-AWARE SECTOR-CARRIER	LEE, Moon-il	(47) 19.07.2023
ALLOCATION	HAGHIGHAT, Afshin	
(73) Telefonaktiebolaget LM Ericsson (publ)	MAYEB NAZAR, Shahrokh	(51) H04L 5/00
(72) GHIMIRE, Jagadish	OTERI, Oghenekome	H04L 27/26
STEPHENNE, Alex	(74) dr. R.C. van Duijvenbode c.s.	H03M 13/00
(74) ir. A. Blokland c.s.	(31) 201762555742 P	H04L 1/00
(47) 19.07.2023	201762543100 P	H04L 27/00
(51) H04B 7/06	201762501001 P	H04W 84/12
H03F 1/32	201762565646 P	H04L 69/22
H04B 1/62	201762454635 P	H04L 69/18
H04B 1/04	201762474924 P	H03M 13/27
H03F 3/189	201762519262 P	H03M 13/29
H03F 3/24	(32) 08.09.2017	H03M 13/11
H03F 3/68	09.08.2017	(11) EP3257162
(11) EP3874600	03.05.2017	(21) EP16750011.5
(21) EP19905660.7	29.09.2017	(22) 12.02.2016
(22) 18.12.2019	03.02.2017	(54) SYSTEM AND METHOD FOR AUTO-
(54) A DIGITAL PREDISTORTION DEVICE	22.03.2017	DETECTION OF WLAN PACKETS
AND METHOD	14.06.2017	USING HEADER
(73) Samsung Electronics Co., Ltd.	(33) United States of America	(73) Huawei Technologies Co. Ltd.
(72) YAN, Jia	United States of America	(72) ABOUL-MAGD, Osama
(74) dr. R.C. van Duijvenbode c.s.	United States of America	SUH, Jung Hoon
(31) 201811588429	United States of America	XIN, Yan
(32) 25.12.2018	United States of America	(74) ir. W.J.J.M. Kempes
(33) China	United States of America	(31) 201562219794 P
(47) 19.07.2023	United States of America	201562115445 P
(51) H04B 7/06	(47) 19.07.2023	(32) 17.09.2015
H04B 7/08	(51) H04L 5/00	12.02.2015
(11) EP3566333	H04B 7/06	(33) United States of America
(21) EP18700099.7	H04W 74/08	United States of America
(22) 05.01.2018	(11) EP3633903	(47) 09.08.2023
(54) BASE STATION CONTROLLED BEAM	(21) EP18821592.5	(51) H04L 5/00
MANAGEMENT	(22) 15.06.2018	H04W 72/04
(73) Sony Group Corporation	(54) ELECTRONIC DEVICE AND METHOD	H04W 4/00
(72) LJUNG, Rickard	FOR WIRELESS COMMUNICATION	H04W 88/06
(74) ir. W.J.J.M. Kempes	SYSTEM, AND STORAGE MEDIUM	(11) EP3448103
(31) 17176443	(73) Sony Group Corporation	(21) EP17785597.0
17154645	(72) CAO, Jianfei	(22) 02.02.2017
17150723	(74) ir. W.J.J.M. Kempes	(54) TERMINAL APPARATUS, BASE
(32) 16.06.2017	(31) 201710470653	STATION APPARATUS, AND
		COMMUNICATION METHOD
		(73) Sony Group Corporation

(72) SHIMEZAWA, Kazuyuki	H04W 28/02	(33) United States of America
(74) ir. W.J.J.M. Kempes	(11) EP3881509	(47) 14.06.2023
(31) 2016085087	(21) EP19828915.9	(51) H04L 67/12
(32) 21.04.2016	(22) 14.11.2019	H04L 67/10
(33) Japan	(54) ENABLING A NON-PUBLIC NETWORK	H04W 40/24
(47) 26.07.2023	COMMUNICATION	H04Q 9/00
(51) H04L 9/32	(73) Sony Group Corporation	(11) EP3785466
H04L 9/40	(72) SHI, Xiaoyan	(21) EP18829554.7
(11) EP3643001	AHMAD, Saad	(22) 29.11.2018
(21) EP18819885.7	WANG, Guanzhou	(54) DYNAMICALLY DISTRIBUTING
(22) 19.06.2018	(74) ir. W.J.J.M. Kempes	PROCESSING AMONG NODES IN A
(54) ACTIVELY MONITORING ENCRYPTED	(31) 201862768434 P	WIRELESS MESH NETWORK
TRAFFIC BY INSPECTING LOGS	(32) 16.11.2018	(73) Landis+Gyr Innovations, Inc.
(73) Silverfort Ltd.	(33) United States of America	(72) SALAZAR, Ruben
(72) FATTAL, Matan Binyamin	(47) 26.07.2023	DECKER, David
KASSNER, Yaron	(51) H04L 51/224	TORPY, Keith
KOVETZ, Hed	(11) EP3471349	TURNER, Randy
ZACH, Rotem	(21) EP18190567.0	(74) ir. H.A. Witmans c.s.
(74) ir. W.J.J.M. Kempes	(22) 08.12.2011	(31) 201815965202
(31) 201762521576 P	(54) PRIORITY INBOX NOTIFICATIONS AND	(32) 27.04.2018
(32) 19.06.2017	SYNCHRONIZATION FOR MOBILE	(33) United States of America
(33) United States of America	MESSAGING APPLICATION	(47) 31.05.2023
(47) 02.08.2023	(73) Google LLC	(51) H04L 67/303
(51) H04L 9/40	(72) Westbrook, Paul T.	H04L 9/40
H04L 67/12	Ghosh, Debajit	H04W 12/67
H04L 69/22	Jhanb, Subir	H04W 12/08
H04W 76/15	Cohen, Gabriel	(11) EP3884645
H04W 76/16	(74) ir. H.Th. van den Heuvel c.s.	(21) EP19801595.0
H04W 76/12	(31) 98525811	(22) 18.11.2019
H04W 76/18	42116710 P	(54) METHOD OF MANAGING NETWORK
(11) EP3373696	(32) 05.01.2011	ACCESS OF A DEVICE AND DEVICE
(21) EP18160383.8	08.12.2010	(73) Nagravision Sarl
(22) 07.03.2018	(33) United States of America	(72) THOMAS, Frederic
(54) DEVICE AND METHOD OF HANDLING	United States of America	MELIA, Telemaco
NETWORK SLICE INFORMATION	(47) 07.06.2023	GREMAUD, Fabien
(73) HTC Corporation	(51) H04L 67/10	(74) drs. W.H.P. Derks
(72) WU, Chih-Hsiang	H04L 67/104	(31) 18208148
(74) dr. R.C. van Duijvenbode c.s.	G06F 9/50	(32) 23.11.2018
(31) 201762468322 P	(11) EP3878161	(33) European Patent Office (EPO)
(32) 07.03.2017	(21) EP19850790.7	(47) 07.06.2023
(33) United States of America	(22) 07.11.2019	(51) H04M 1/02
(47) 07.06.2023	(54) INTELLIGENT, DECENTRALIZED AND	G06F 1/16
(51) H04L 9/40	AUTONOMOUS MARKETPLACE FOR	(11) EP4033740
H04W 4/14	DISTRIBUTED COMPUTING AND	(21) EP20882226.2
H04L 67/12	STORAGE	(22) 27.10.2020
H04L 9/08	(73) IAGON AS	(54) FOLDABLE APPARATUS AND
H04L 9/32	(72) LIMA, Claudio	ELECTRONIC DEVICE
H04W 12/033	DHALIWAL, Navjit	(73) GUANGDONG OPPO MOBILE
H04W 12/041	GUPTA, Rohit	TELECOMMUNICATIONS CORP., LTD.
H04L 51/04	HARISON, Elad	(72) HU, Tingyong
(11) EP3568964	(74) dr. R.C. van Duijvenbode c.s.	ZHENG, Zekuan
(21) EP17832313.5	(31) 201862757327 P	(74) ir. W.J.J.M. Kempes
(22) 29.12.2017	(32) 08.11.2018	(31) 201911038595
(54) METHOD FOR END-TO-END	(33) United States of America	(32) 29.10.2019
TRANSMISSION OF A PIECE OF	(47) 31.05.2023	(33) China
ENCRYPTED DIGITAL INFORMATION	(51) H04L 67/12	(47) 28.06.2023
AND SYSTEM IMPLEMENTING THIS	G06F 16/00	(51) H04M 3/02
METHOD	(11) EP3563266	H04M 3/42
(73) Wallix	(21) EP17888806.1	(11) EP3407585
(72) BINSZTOK, Henri	(22) 17.11.2017	(21) EP18173489.8
(74) ir. W.J.J.M. Kempes	(54) NORMALIZATION OF SENSORS	(22) 22.05.2018
(31) 1750212	(73) Intel Corporation	(54) GENERATION OF INFORMATION
(32) 10.01.2017	(72) WOUHAYBI, Rita B.	BASED ON EVENT DATA OF A CALL
(33) France	NEEDHAM, Bradford H.	(73) Telia Company AB
(47) 28.06.2023	TATOURIAN, Igor	(72) SEPPÄNEN, Juho
(51) H04L 47/2491	(74) ir. W.J.J.M. Kempes	(74) ir. A.R. Aalbers
H04W 28/24	(31) 201615391479	(31) 20175470
H04W 76/12	(32) 27.12.2016	(32) 24.05.2017

(33) Finland	(11) EP3840376	KATO, Yoshiaki
(47) 26.07.2023	(21) EP19861535.3	ITANI, Yusuke
(51) H04N 1/393	(22) 20.09.2019	MINEZAWA, Akira
H04N 1/387	(54) IMAGE SIGNAL ENCODING/ DECODING METHOD AND DEVICE	(74) J.M.H. Duyver lic.
H04N 1/047	THEREFOR	(31) 2009130433
(11) EP3873078	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(32) 29.05.2009
(21) EP21154086.9	(72) LEE, Bae Keun	(33) Japan
(22) 28.01.2021	(74) ir. W.J.J.M. Kempes	(47) 02.08.2023
(54) DEVICE, PROCESS EXECUTION SYSTEM, PROCESS EXECUTION METHOD, AND CARRIER MEANS	(31) 20180114344	(51) H04N 19/16
(73) Ricoh Company, Ltd.	20180114343	H04N 19/196
(72) INOUE, Yuusuke	20180114342	H04N 19/463
(74) ir. H.A. Witmans c.s.	(32) 21.09.2018	H04N 19/176
(31) 2020023801	21.09.2018	H04N 19/11
(32) 14.02.2020	(33) Korea (Republic)	H04N 19/593
(33) Japan	Korea (Republic)	(11) EP2720461
(47) 31.05.2023	Korea (Republic)	(21) EP12799908.4
(51) H04N 5/225	(47) 05.07.2023	(22) 13.06.2012
H04N 5/232	(51) H04N 19/124	(54) IMAGE DECODING METHOD AND IMAGE ENCODING METHOD
G02B 7/09	H04N 19/174	(73) Sun Patent Trust
H02H 9/04	H04N 19/184	(72) SASAI, Hisao
H02K 11/02	H04N 19/50	NISHI, Takahiro
H02H 9/00	H04N 19/513	SHIBAHARA, Youji
(11) EP3780572	H04N 19/61	SUGIO, Toshiyasu
(21) EP18917483.2	H04N 19/70	TANIKAWA, Kyoko
(22) 15.05.2018	H04N 19/91	MATSUNOBU, Toru
(54) PROTECTIVE CIRCUIT FOR CAMERA OF TERMINAL	H04N 19/13	(74) ir. W.J.J.M. Kempes
(73) Honor Device Co., Ltd.	(11) EP3930330	(31) 201161496237 P
(72) WANG, Chao	(21) EP21189232.8	(32) 13.06.2011
SUN, Zhiyong	(22) 18.06.2012	(33) United States of America
XU, Bo	(54) ENTROPY CODING OF MOTION VECTOR DIFFERENCES	(47) 02.08.2023
WANG, Yi	(73) GE Video Compression, LLC	(51) H04N 19/174
SUN, Qiao	(72) KIRCHHOFFER, Heiner	H04N 19/597
DONG, Jie	NGUYEN, Tung	H04N 19/436
(74) ir. W.J.J.M. Kempes	SIEKMANN, Mischa	H04N 19/70
(31) PCT/CN2018/085366	MARPE, Detlev	H04N 19/52
(32) 02.05.2018	PREISS, Matthias	H04N 19/30
(33) World Intellectual Property Office (WIPO)	GEORGE, Valeri	H04N 19/46
(47) 12.07.2023	WIEGAND, Thomas	H04N 19/423
(51) H04N 19/105	STEGEMANN, Jan	H04N 13/00
H04N 19/503	BROSS, Benjamin	H04N 19/176
H04N 19/70	(74) ir. F.A. Geurts c.s.	H04N 19/61
(11) EP3917140	(31) 201161508506 P	H04N 19/44
(21) EP21172075.0	201161497794 P	H04N 19/11
(22) 10.01.2013	(32) 15.07.2011	H04N 19/136
(54) METHOD AND APPARATUS FOR SIGNALING AND CONSTRUCTION OF VIDEO CODING REFERENCE PICTURE LISTS	16.06.2011	H04N 19/192
(73) VID SCALE, Inc.	(33) United States of America	(11) EP4033764
(72) Yan Ye	United States of America	(21) EP22161531.3
He Yong	(47) 07.06.2023	(22) 05.09.2013
(74) dr. R.C. van Duijvenbode c.s.	(51) H04N 19/13	(54) IMAGE ENCODING APPARATUS, IMAGE DECODING APPARATUS AND STORAGE MEDIUM
(31) 201261588571 P	H04N 19/139	(73) Sun Patent Trust
(32) 19.01.2012	H04N 19/176	(72) WEDI, Thomas
(33) United States of America	H04N 19/91	ESENLİK, Semih
(47) 19.07.2023	H04N 19/96	NARROSCHKE, Matthias
(51) H04N 19/11	(11) EP3998775	(74) ir. W.J.J.M. Kempes
H04N 19/593	(21) EP21183815.6	(31) 201261705891 P
H04N 19/176	(22) 27.05.2010	(32) 26.09.2012
H04N 19/119	(54) IMAGE ENCODING DEVICE, IMAGE DECODING DEVICE, IMAGE ENCODING METHOD, AND IMAGE DECODING METHOD	(33) United States of America
H04N 19/132	(73) MITSUBISHI ELECTRIC CORPORATION	(47) 19.07.2023
H04N 19/186	(72) SEKIGUCHI, Shunichi	(51) H04W 8/20
H04N 19/86	SUGIMOTO, Kazuo	H04W 8/26
H04N 19/70		H04W 12/069
H04N 19/513		H04W 12/30
		H04W 12/42
		H04W 76/10
		H04W 60/04

H04W 8/18	(72) WU, Chih-Hsiang	H04W 76/28
(11) EP3577923	(74) dr. R.C. van Duijvenbode c.s.	H04W 56/00
(21) EP18703004.4	(31) 201762599781 P	H04W 68/02
(22) 02.02.2018	(32) 17.12.2017	(11) EP3565318
(54) METHOD FOR ESTABLISHING A	(33) United States of America	(21) EP17885470.9
BIDIRECTIONAL COMMUNICATION	(47) 07.06.2023	(22) 28.12.2017
CHANNEL BETWEEN A SERVER	(51) H04W 36/02	(54) COMMUNICATION TERMINAL,
AND A SECURE ELEMENT,	H04W 36/30	CONTROL DEVICE, COMMUNICATION
CORRESPONDING SERVERS AND	H04W 36/00	SYSTEM, AND COMMUNICATION
SECURE ELEMENT	(11) EP3767996	METHOD
(73) Thales Dis France SAS	(21) EP20177781.0	(73) NEC Corporation
(72) ANSLOT, Michel	(22) 16.06.2014	(72) SHIMIZU Kouji
LAMBERTON, Marc	(54) COMMUNICATION APPARATUS AND	NAOE Hitoshi
(74) ir. W.J.J.M. Kempes	COMMUNICATION METHOD	TAMURA Toshiyuki
(31) 17305203	(73) Sony Group Corporation	AOKI Takahiro
17305124	(72) QIN, Zhongbin	(74) ir. J.C. Volmer c.s.
(32) 24.02.2017	(74) ir. W.J.J.M. Kempes	(31) 2016255879
03.02.2017	(31) 201310240852	(32) 28.12.2016
(33) European Patent Office (EPO)	(32) 18.06.2013	(33) Japan
European Patent Office (EPO)	(33) China	(47) 16.08.2023
(47) 09.08.2023	(47) 26.07.2023	(51) H04W 60/04
(51) H04W 36/00	(51) H04W 40/34	H04W 84/00
H04W 8/06	H04W 36/00	H04W 88/08
H04W 8/14	H04L 45/74	H04W 48/12
H04W 8/18	H04W 8/08	H04W 8/12
H04W 8/20	H04W 36/12	H04W 8/06
H04W 4/50	(11) EP3364688	(11) EP3903528
(11) EP3755049	(21) EP18166270.1	(21) EP19829197.3
(21) EP19754005.7	(22) 28.06.2012	(22) 20.12.2019
(22) 12.02.2019	(54) METHOD AND APPARATUS FOR	(54) A SYSTEM AND METHOD FOR
(54) SUBSCRIPTION INFORMATION	SUPPORTING LOCAL IP ACCESS,	DISPLAYING A CUSTOM NETWORK
UPDATE METHOD AND APPARATUS	LIPA, MOBILITY	NAME IN A MOBILE DEVICE
(73) ZTE Corporation	(73) InterDigital Patent Holdings, Inc.	(73) SITA Switzerland Sàrl
(72) LIU, Helun	(72) ADJAKPLE, Pascal M.	(72) PATANAPONGPIBUL, Leo Boonchin
(74) ir. A.R. Aalbers	AHMAD, Saad	(74) ir. H.A. Witmans c.s.
(31) 201810149926	WATFA, Mahmoud	(31) 201821190
(32) 13.02.2018	OLVERA-HERNANDEZ, Ulises	(32) 24.12.2018
(33) China	(74) dr. R.C. van Duijvenbode c.s.	(33) United Kingdom
(47) 09.08.2023	(31) 201161544997 P	(47) 07.06.2023
(51) H04W 36/00	201161543102 P	(51) H04W 64/00
H04W 36/30	201161503669 P	H04W 56/00
H04W 48/20	(32) 07.10.2011	G01S 5/02
H04W 52/04	04.10.2011	G01S 5/14
(11) EP4007364	01.07.2011	(11) EP3544340
(21) EP20848059.0	(33) United States of America	(21) EP17872746.7
(22) 24.06.2020	United States of America	(22) 05.09.2017
(54) POWER DETERMINING METHOD AND	United States of America	(54) LMU DEVICE FUSION METHOD,
TERMINAL DEVICE	(47) 19.07.2023	APPARATUS, AND SYSTEM
(73) Vivo Mobile Communication Co., Ltd.	(51) H04W 48/18	(73) ZTE Corporation
(72) XIE, Ningning	H04W 8/20	(72) CHEN, Shijun
HONG, Yue	H04W 88/06	CHEN, Dawei
LI, Yifan	H04W 36/14	WANG, Yuanyuan
SUN, Yanliang	(11) EP3573376	TIAN, Xuefeng
(74) J.M.H. Duyver lic.	(21) EP19186352.1	CHEN, Qiang
(31) 201910696356	(22) 15.06.2018	(74) ir. A. Blokland c.s.
(32) 30.07.2019	(54) DEVICE AND METHOD OF HANDLING	(31) 201611014884
(33) China	MOBILITY BETWEEN LONG-TERM	(32) 17.11.2016
(47) 09.08.2023	EVOLUTION NETWORK AND FIFTH	(33) China
(51) H04W 36/00	GENERATION NETWORK	(47) 26.07.2023
H04W 76/22	(73) HTC Corporation	(51) H04W 72/04
H04W 76/15	(72) WU, Chih-Hsiang	H04L 1/1607
(11) EP3499959	(74) dr. R.C. van Duijvenbode c.s.	H04L 1/1829
(21) EP18213097.1	(31) 201762520585 P	(11) EP4024999
(22) 17.12.2018	(32) 16.06.2017	(21) EP20918215.3
(54) DEVICES AND METHODS HANDLING	(33) United States of America	(22) 12.02.2020
A SIGNALLING RADIO BEARER	(47) 26.07.2023	(54) COMMUNICATION METHOD, DEVICE,
CONFIGURATION	(51) H04W 52/02	AND STORAGE MEDIUM
(73) HTC Corporation	H04W 60/00	

- (73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.  
(72) WU, Zuomin  
(74) ir. W.J.J.M. Kempes  
(47) 26.07.2023
- 
- (51) H04W 72/04  
H04W 74/08  
H04L 5/00  
(11) EP3952506  
(21) EP19921920.5  
(22) 26.03.2019  
(54) SLOT FORMAT INDICATION METHOD AND APPARATUS  
(73) Beijing Xiaomi Mobile Software Co., Ltd.  
(72) LI, Mingju  
(74) J.M.H. Duyver lic.  
(47) 26.07.2023
- 
- (51) H04W 72/12  
(11) EP3644678  
(21) EP18820060.4  
(22) 12.06.2018  
(54) INDICATION METHOD, BASE STATION, AND ENHANCED MOBILE BROADBAND USER EQUIPMENT  
(73) Vivo Mobile Communication Co., Ltd.  
(72) SHEN, Xiaodong  
PAN, Xueming  
LU, Zhi  
(74) J.M.H. Duyver lic.  
(31) 2017110487717  
(32) 23.06.2017  
(33) China  
(47) 09.08.2023
- 
- (51) H04W 72/23  
H04L 5/00  
H04L 1/16  
H04L 5/14  
(11) EP3796732  
(21) EP20201058.3  
(22) 27.04.2017  
(54) COMMUNICATIONS DEVICE AND INFRASTRUCTURE EQUIPMENT  
(73) Sony Group Corporation  
(72) BEALE, Martin Warwick  
WONG, Shin Horng  
ATUNGSIRI, Samuel Asangbeng  
(74) ir. W.J.J.M. Kempes  
(31) 16169734  
(32) 13.05.2016  
(33) European Patent Office (EPO)  
(47) 26.07.2023
- 
- (51) H04W 72/541  
(11) EP3742854  
(21) EP20185758.8  
(22) 04.04.2014  
(54) COMMUNICATIONS SYSTEM  
(73) NEC Corporation  
(72) Sharma, Vivek  
(74) ir. J.C. Volmer c.s.  
(31) 201306438  
(32) 09.04.2013  
(33) United Kingdom  
(47) 16.08.2023
- 
- (51) H04W 74/08  
H04B 7/26  
(11) EP3908072  
(21) EP21177536.6
- (22) 03.08.2007  
(54) PRE-ALLOCATED RANDOM ACCESS IDENTIFIERS  
(73) Wilan Inc.  
(72) WANG, Lei  
GUMMADI, Srikanth  
NEWHAM, Adam  
BOURLAS, Yair  
(74) ir. W.J.J.M. Kempes  
(31) 46979406  
(32) 01.09.2006  
(33) United States of America  
(47) 26.07.2023
- 
- (51) H04W 74/08  
H04L 5/00  
H04W 74/00  
H04W 76/11  
(11) EP3706486  
(21) EP18872713.5  
(22) 11.10.2018  
(54) RANDOM ACCESS METHOD AND USER TERMINAL  
(73) Vivo Mobile Communication Co., Ltd.  
(72) WU, Yumin  
CHEN, Li  
(74) J.M.H. Duyver lic.  
(31) 201711072301  
(32) 03.11.2017  
(33) China  
(47) 02.08.2023
- 
- (51) H04W 74/08  
H04W 74/00  
H04W 72/14  
(11) EP3793299  
(21) EP18917719.9  
(22) 10.05.2018  
(54) DATA TRANSMISSION METHOD, APPARATUS, SYSTEM, AND STORAGE MEDIUM  
(73) Beijing Xiaomi Mobile Software Co., Ltd.  
(72) ZHANG, Ming  
MU, Qin  
(74) J.M.H. Duyver lic.  
(47) 05.07.2023
- 
- (51) H04W 76/15  
(11) EP3920654  
(21) EP19957176.1  
(22) 23.12.2019  
(54) WIRELESS COMMUNICATION METHOD, TERMINAL DEVICE, CHIP, COMPUTER READABLE STORAGE MEDIUM AND COMPUTER PROGRAM PRODUCT  
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.  
(72) FU, Zhe  
LU, Qianxi  
(74) ir. W.J.J.M. Kempes  
(47) 02.08.2023
- 
- (51) H04W 76/16  
H04W 76/19  
H04W 24/04  
H04W 76/15  
(11) EP3607770  
(21) EP18794075.4  
(22) 04.05.2018  
(54) METHODS FOR REPORTING A SECONDARY NODE FAILURE IN DUAL CONNECTIVITY NETWORKS, USER EQUIPMENT AND BASE STATION  
(73) Samsung Electronics Co., Ltd.  
(72) DEOGUN, Pravjyot Singh  
JUNG, Jungsoo  
SHARMA, Neha  
(74) dr. R.C. van Duijvenbode c.s.  
(31) 201741015839  
201741015839  
(32) 17.04.2018  
04.05.2017  
(33) India  
India  
(47) 02.08.2023
- 
- (51) H04W 76/22  
H04W 36/14  
(11) EP3506598  
(21) EP17823690.7  
(22) 07.07.2017  
(54) METHOD, DEVICE, AND COMPUTER-READABLE STORAGE MEDIUM FOR IMPLEMENTING CONTINUOUS SESSION  
(73) ZTE Corporation  
(72) ZHOU, Xiaoyun  
ZHU, Jinguo  
(74) ir. A.R. Aalbers  
(31) 201610543593  
(32) 08.07.2016  
(33) China  
(47) 19.07.2023
- 
- (51) H04W 76/50  
H04W 36/00  
H04W 4/90  
H04W 88/14  
H04W 92/24  
(11) EP4085730  
(21) EP20829857.0  
(22) 15.12.2020  
(54) METHODS, DEVICES AND COMPUTER READABLE MEDIUM FOR EMERGENCY COMMUNICATIONS  
(73) TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)  
(72) GAN, Juying  
LU, Yunjie  
FOTI, George

HEDMAN, Peter

(74) ir. A. Blokland c.s.  
(31) PCT/CN2020/070129  
(32) 02.01.2020  
(33) World Intellectual Property Office (WIPO)  
(47) 26.07.2023

---

(51) H05B 47/18  
H04L 12/403  
G06F 13/40  
(11) EP3827644  
(21) EP19734248.8  
(22) 16.06.2019  
(54) SEGMENTED CONTROL  
ARRANGEMENT  
(73) INOVA Semiconductors GmbH  
(72) NEUMANN, Roland  
(74) ir. W.J.J.M. Kempes  
(31) 102018007141  
(32) 10.09.2018  
(33) Germany  
(47) 02.08.2023

---

(51) H05H 1/06  
H05H 5/02  
G21B 1/05  
(11) EP3586575  
(21) EP18757877.8  
(22) 23.02.2018  
(54) Z-PINCH PLASMA CONFINEMENT  
SYSTEM AND RELATED METHOD  
(73) University of Washington  
(72) NELSON, Brian, A.  
GOLINGO, Raymond  
SHUMLAK, Uri  
(74) dr. A. Krebs  
(31) 201762462779 P  
(32) 23.02.2017  
(33) United States of America  
(47) 09.08.2023

---

(51) H05H 3/06  
G21K 1/10  
(11) EP3975669  
(21) EP21190374.5  
(22) 09.08.2021  
(54) NEUTRON SOURCE WITH BEAM  
SHAPING APPARATUS FOR  
RADIOGRAPHY  
(73) Adelphi Technology, Inc.  
(72) Brown, Craig Mathew  
Cremer, Jr., Jay Theodore  
Gary, Charles Kevin  
Chen, Allan Xi  
Urdahl, Randall Scott  
Amoroso, Adam Nathaniel  
Jones, Jr., Glenn Emerson  
Piestrup, Melvin Arthur  
Guan, Yao Zong  
Williams, David Lowndes  
(74) dr. R.C. van Duijvenbode c.s.  
(31) 202017032211  
(32) 25.09.2020  
(33) United States of America  
(47) 07.06.2023

---

## EP4

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

(51) A61K 9/19	(33) European Patent Office (EPO)	(21) EP17708497.7
A61K 38/12	(47) 16.09.2020	(22) 02.03.2017
A61P 31/04	(51) A61P 5/50	(54) MODEL GENERATION FOR DENTAL SIMULATION
A61K 9/08	(11) EP2341905	(73) Nissin Dental Products Inc.
A61K 38/00	(21) EP09812292.2	(74) ir. W.J.J.M. Kempes
A61K 47/18	(22) 04.09.2009	(72) VAN DEN BRABER, Niels
A61K 47/26	(54) SUSTAINED RELEASE	DE GREEF, Mark
C07K 11/02	FORMULATIONS USING NON-AQUEOUS CARRIERS	(31) 201604155
A61P 17/00	(73) Amylin Pharmaceuticals, LLC	(32) 10.03.2016
A61P 31/00	AstraZeneca Pharmaceuticals LP	(33) United Kingdom
(11) EP2504353	(74) ir. M.F.J.M. Ketelaars c.s.	(47) 02.12.2020
(21) EP10832379.1	(72) HOUCHIN, Mary, L.	(51) H04B 7/0417
(22) 23.11.2010	LEE, Robin, H.	H04B 7/06
(54) LIPOPEPTIDE COMPOSITIONS AND RELATED METHODS	QI, Hong	H04L 5/00
(73) Cubist Pharmaceuticals LLC	OEHRTMAN, Greg	(11) EP3251300
(74) ir. H.A. Witmans c.s.	JENNINGS, Robert, N.	(21) EP15880512.7
(72) SUN, Sophie	COLEMAN, Scott, H.	(22) 30.01.2015
NAIK, Gaauri	(31) 94381 P	(54) METHOD AND APPARATUS FOR PERFORMING RADIO-RESOURCE-MANAGEMENT MEASUREMENTS
O'CONNOR, Sandra	(32) 04.09.2008	(73) Nokia Solutions and Networks Oy
(31) 263784 P	(33) United States of America	(74) dr. W.A.H.M. Van Borm
(32) 23.11.2009	(47) 29.04.2020	(72) MONDAL, Bishwarup
(33) United States of America	(51) B60N 2/829	LUNTTILA, Timo, Erkki
(47) 11.07.2018	B60N 2/838	VISOTSKY, Eugene
(51) A61K 31/41	B60N 2/853	(47) 06.01.2021
A61P 9/00	A47C 7/38	
(11) EP3275438	(11) EP3616983	
(21) EP17183806.3	(21) EP19182204.8	
(22) 28.07.2017	(22) 25.06.2019	
(54) METHODS OF PREVENTING CARDIOVASCULAR EVENTS IN RESIDUAL RISK DYSLIPIDEMIC POPULATIONS	(54) ADJUSTMENT DEVICE FOR A HEADREST	
(73) Kowa Company, Ltd.	(73) CIAR S.P.A.	
(74) J.M.H. Duyver lic.	(74) dr. A. Krebs	
(72) OSHIMA, Ryu	(72) CARRERA, Massimo	
GORDON, Gary	(31) 202018104018 U	
(31) 201762462574 P	(32) 12.07.2018	
201662368245 P	(33) Germany	
(32) 23.02.2017	(47) 19.05.2021	
29.07.2016	(51) C07D 473/34	
(33) United States of America	A61K 31/52	
United States of America	A61P 31/18	
(47) 28.10.2020	A61P 31/20	
(51) A61M 37/00	(11) EP2744810	
A61M 31/00	(21) EP12753867.6	
(11) EP3417905	(22) 15.08.2012	
(21) EP18182632.2	(54) TENOFOVIR ALAFENAMIDE HEMIFUMARATE	
(22) 20.01.2006	(73) Gilead Sciences, Inc.	
(54) APPLICATOR FOR INSERTING AN IMPLANT	(72) LIU, Dazhan	
(73) Merck Sharp & Dohme B.V.	SHI, Bing	
(74) ir. H.A. Witmans c.s.	WANG, Fang	
(72) Jansen, Willem	YU, Richard, Hung Chiu	
Tak, Maurice Petrus Wilhelmus	(31) 201161524224 P	
Vertegaal, Hendricus Johannes	(32) 16.08.2011	
Van Der Graaf, Iris Epkjen Hobo	(33) United States of America	
(31) 05100418	(47) 05.10.2016	
(32) 24.01.2005	(51) G06T 17/00	
	G06T 17/20	
	G09B 23/28	
	(11) EP3427231	



## EP5

**Voor Nederland verleende gewijzigde Europese octrooien waarvoor een gewijzigde vertaling is ingediend .**

**Contains data concerning European patents granted for Netherlands and republished in amended form (B2 or B3 applications) in English and for which a translation in Dutch, was filed under the Dutch Patent Laws.**

(51) A61K 31/502	(73) egeplast international GmbH
A61K 47/32	(72) Eilers, Werner
A61K 9/20	Stranz, Dr. Michael
(11) EP2346495	(74) ir. W.J.J.M. Kempes
(21) EP09740728.2	(31) 102013105202
(22) 05.10.2009	(32) 22.05.2013
(54) PHARMACEUTICAL FORMULATION	(33) Germany
514	(47) 14.10.2015
(73) KuDOS Pharmaceuticals Limited	(51) C03B 19/10
(72) BECHTOLD, Michael, Karl	C03C 11/00
FASTNACHT, Katja, Maren	C03C 3/06
LIEPOLD, Bernd, Harald	C03C 12/00
LENNON, Kieran, James	(11) EP3000790
STEITZ, Benedikt	(21) EP14186768.9
CAHILL, Julie, Kay	(22) 29.09.2014
PACKHAEUSER, Claudia, Bettina	(54) Method for production of components
(74) ir. W.J.J.M. Kempes	made of synthetic quartz-glass from SiO <sub>2</sub>
(31) 103347 P	granulate
(32) 07.10.2008	(73) Heraeus Quarzglas GmbH & Co. KG
(33) United States of America	(72) Hofmann, Achim
(47) 20.07.2016	Kayser, Thomas
(51) A61M 5/20	Otter, Matthias
A61M 5/32	Kuehn, Bodo
(11) EP2319560	(74) ir. W.J.J.M. Kempes
(21) EP10179733.0	(47) 27.11.2019
(22) 27.05.2005	(51) D21H 13/40
(54) Injection device	E04C 2/04
(73) Cilag GmbH International	(11) EP2843129
(72) Harrison, Nigel	(21) EP13290205.7
(74) ir. F.A. Geurts c.s.	(22) 30.08.2013
(31) 0412053	(54) REINFORCED GYPSUM BOARD
(32) 28.05.2004	HAVING IMPROVED FIRE
(33) United Kingdom	RESISTANCE
(47) 13.05.2015	(73) Saint-Gobain Placo SAS
(51) A61M 25/00	(72) Lelogeay, Sophie
A61M 25/01	(74) ir. J.D. de Zeeuw
(11) EP2703035	(47) 13.05.2020
(21) EP13181555.7	
(22) 23.08.2013	
(54) A packaged catheter assembly	
(73) Sayco Pty. Ltd.	
(72) Young, Tim	
(74) drs. A.P. van Wijk	
(31) 2012101310	
(32) 29.08.2012	
(33) Australia	
(47) 12.02.2020	
(51) B32B 1/08	
B32B 7/02	
B32B 27/32	
F16L 11/04	
F16L 11/12	
F16L 9/12	
(11) EP2805823	
(21) EP14168867.1	
(22) 19.05.2014	
(54) Plastic pipe with at least two layers	

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

(21) 301194  
(22) 22.08.2022  
(11) 301194  
(73) Genentech, Inc.  
(74) ir. F.A. Geurts c.s.  
(68) EP3083689  
(54) ANTI-CD3 ANTIBODIES AND  
METHODS OF USE  
(94) 06.06.2037  
(95) mosunetuzumab  
(93) EU/1/22/1649 07.06.2022  
(47) 13.09.2023

---

(21) 301228  
(22) 26.04.2023  
(11) 301228  
(73) MEDIMMUNE LIMITED  
(74) dr. R.C. van Duijvenbode c.s.  
(68) EP3094353  
(54) RSV-SPECIFIC ANTIBODIES AND  
FUNCTIONAL PARTS THEREOF  
(94) 02.11.2037  
(95) nirsevimab  
(93) EU/1/22/1689 03.11.2022  
(47) 13.09.2023

---

(21) 301233  
(22) 31.05.2023  
(11) 301233  
(73) Boehringer Ingelheim International  
GmbH  
(74) ir. F.A. Geurts c.s.  
(68) EP2780373  
(54) ANTI IL-36R ANTIBODIES  
(94) 13.11.2037  
(95) spesolimab  
(93) EU/1/22/1688 12.12.2022  
(47) 13.09.2023

---

(21) 301241  
(22) 07.09.2023  
(11) 301241  
(74) ir. M.F.J.M. Ketelaars c.s.  
(68) EP3415531  
(54) BCMA (CD269/TNFRSF17) - BINDING  
PROTEINS  
(94) 1189  
(95) Belantamab mafodotin  
(93) EU/1/20/1474 26.08.2020

---

**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) EP2838548	F16L 11/12
(51) A61K 38/17	(00) 45/22
C12N 15/85	09.11.2022
C07K 14/74	(11) EP3912830
(00) 29/23	(51) B60B 3/04
19.07.2023	B60B 3/10
(11) EP2985300	B60B 1/00
(51) C08G 8/28	B60B 1/10
C08K 5/5313	B60B 3/00
C08L 61/14	B60B 3/02
C08L 63/04	B60B 3/12
(00) 07.09.2023	(00) 45/22
(00) 49/20	09.11.2022
02.12.2020	
(00) Restoration of rights	
(00) Jiangsu Yoke Technology Co., Ltd.	
(11) EP3415860	
(51) F41H 11/02	
F41G 7/22	
(00) 46/22	
16.11.2022	
(11) EP3656259	
(51) A47J 31/36	
B65D 85/804	
(00) 45/22	
09.11.2022	
(11) EP3694353	
(51) A61M 15/06	
A61M 11/04	
A61M 15/02	
A24F 40/44	
A24F 40/46	
(00) 47/22	
23.11.2022	
(11) EP3710281	
(51) B60B 27/00	
(00) 30/23	
26.07.2023	
(11) EP3723722	
(51) A61K 8/73	
(00) 46/22	
16.11.2022	
(11) EP3746322	
(51) B60K 1/00	
B60K 11/02	
(00) 46/22	
16.11.2022	
(11) EP3848422	
(51) C09D 11/40	
C09D 11/322	
C09D 11/324	
C09D 11/38	
B44F 9/02	
(00) 48/22	
30.11.2022	
(11) EP3877684	
(51) F16L 11/10	

**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) 301114	C10M 125/26
(00) 48/22	C10M 139/00
30.11.2022	C10N 30/00
(00) Negative	C10N 40/04
(11) EP2220689	C10N 40/25
(51) H01L 31/18	C10N 40/34
H01L 31/068	C10N 60/12
H01L 31/0216	C10N 60/14
(00) 30/19	C10N 70/00
24.07.2019	(11) EP3392920
(11) EP2401953	(51) H01L 33/62
(51) A61B 1/00	H01L 33/54
G02B 23/24	H01L 33/48
G03B 17/48	(00) 02/23
(11) EP2406437	11.01.2023
(51) E04B 1/86	(00) 13.09.2023
(00) 32/17	(00) Positive
09.08.2017	(11) EP3725833
(11) EP2569484	(51) C08K 3/40
(51) B32B 21/00	C08K 7/00
B32B 29/00	C08K 7/14
B44C 5/04	(00) 03/22
D21H 17/33	19.01.2022
D21H 27/18	
D21H 27/22	
E04F 15/00	
(00) 2015/09	
25.02.2015	
(00) 11.09.2023	
(00) Positive	
(11) EP3011250	
(51) F28D 20/02	
(11) EP3119703	
(51) B65G 1/04	
B65G 1/06	
(11) EP3204565	
(51) C04B 28/14	
C04B 111/00	
E04B 2/70	
E04B 2/74	
E04C 2/04	
E04C 2/06	
(11) EP3241879	
(51) C09K 5/04	
(00) 18/21	
12.05.2021	
(11) EP3370512	
(51) A01K 11/00	
A01K 29/00	
G06K 7/10	
G06K 9/00	
G06T 7/70	
(00) 35/21	
01.09.2021	
(11) EP3374479	
(51) C07F 5/02	

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

(11) EP2341905	H04N 19/157
(51) A61P 5/50	H04N 19/176
(11) EP2504353	H04N 19/182
(51) A61K 9/19	H04N 19/593
A61K 38/12	H04N 19/82
A61P 31/04	(11) EP3616983
A61K 9/08	(51) B60N 2/829
A61K 38/00	B60N 2/838
A61K 47/18	B60N 2/853
A61K 47/26	A47C 7/38
C07K 11/02	(11) EP3879159
A61P 17/00	(51) F16L 37/14
A61P 31/00	
(11) EP2684027	
(00) 01.09.2023	
(51) B82Y 15/00	
B82Y 30/00	
B82Y 35/00	
B01L 3/00	
G01N 21/03	
G01N 21/05	
G01N 21/64	
G01N 33/543	
(00) Established	
(11) EP2744810	
(51) C07D 473/34	
A61K 31/52	
A61P 31/18	
A61P 31/20	
(11) EP3021968	
(00) 01.09.2023	
(51) B82Y 15/00	
B82Y 35/00	
B01L 3/00	
G01N 21/64	
G01N 33/543	
(00) Established	
(11) EP3080589	
(00) 01.09.2023	
(51) B01L 3/00	
G01N 21/05	
G01N 21/64	
(00) Established	
(11) EP3251300	
(51) H04B 7/0417	
H04B 7/06	
H04L 5/00	
(11) EP3275438	
(51) A61K 31/41	
A61P 9/00	
(11) EP3417905	
(51) A61M 37/00	
A61M 31/00	
(11) EP3427231	
(51) G06T 17/00	
G06T 17/20	
G09B 23/28	
(11) EP3448036	
(51) H04N 19/117	
H04N 19/136	

## VRV

## Verval of nietigverklaring.

## Contains data concerning lapse or annulment.

(11) 1024252	(00) Patent Expired	(00) Patent Expired
(00) 09.09.2023	(11) EP1536845	(11) EP1546602
(00) Patent Expired	(00) 10.09.2023	(00) 11.09.2023
(11) 1024273	(00) Patent Expired	(00) Patent Expired
(00) 11.09.2023	(11) EP1537198	(11) EP1546671
(00) Patent Expired	(00) 11.09.2023	(00) 11.09.2023
(11) 1024276	(00) Patent Expired	(00) Patent Expired
(00) 11.09.2023	(11) EP1537541	(11) EP1546695
(00) Patent Expired	(00) 09.09.2023	(00) 10.09.2023
(11) 1024281	(00) Patent Expired	(00) Patent Expired
(00) 12.09.2023	(11) EP1538437	(11) EP1547322
(00) Patent Expired	(00) 10.09.2023	(00) 10.09.2023
(11) 1024282	(00) Patent Expired	(00) Patent Expired
(00) 12.09.2023	(11) EP1538438	(11) EP1548110
(00) Patent Expired	(00) 10.09.2023	(00) 09.09.2023
(11) 1024286	(00) Patent Expired	(00) Patent Expired
(00) 12.09.2023	(11) EP1539228	(11) EP1549147
(00) Patent Expired	(00) 09.09.2023	(00) 11.09.2023
(11) EP1396820	(00) Patent Expired	(00) Patent Expired
(00) 09.09.2023	(11) EP1539620	(11) EP1549162
(00) Patent Expired	(00) 10.09.2023	(00) 08.09.2023
(11) EP1398282	(00) Patent Expired	(00) Patent Expired
(00) 12.09.2023	(11) EP1539815	(11) EP1549437
(00) Patent Expired	(00) 12.09.2023	(00) 10.09.2023
(11) EP1400537	(00) Patent Expired	(00) Patent Expired
(00) 11.09.2023	(11) EP1539820	(11) EP1551509
(00) Patent Expired	(00) 11.09.2023	(00) 09.09.2023
(11) EP1403215	(00) Patent Expired	(00) Patent Expired
(00) 11.09.2023	(11) EP1539894	(11) EP1562881
(00) Patent Expired	(00) 09.09.2023	(00) 12.09.2023
(11) EP1403324	(00) Patent Expired	(00) Patent Expired
(00) 13.09.2023	(11) EP1539927	(11) EP1563029
(00) Patent Expired	(00) 08.09.2023	(00) 11.09.2023
(11) EP1408096	(00) Patent Expired	(00) Patent Expired
(00) 09.09.2023	(11) EP1542956	(11) EP1576215
(00) Patent Expired	(00) 09.09.2023	(00) 11.09.2023
(11) EP1411157	(00) Patent Expired	(00) Patent Expired
(00) 12.09.2023	(11) EP1543038	(11) EP1580800
(00) Patent Expired	(00) 08.09.2023	(00) 11.09.2023
(11) EP1416035	(00) Patent Expired	(00) Patent Expired
(00) 08.09.2023	(11) EP1543052	(11) EP1610364
(00) Patent Expired	(00) 13.09.2023	(00) 11.09.2023
(11) EP1418441	(00) Patent Expired	(00) Patent Expired
(00) 11.09.2023	(11) EP1543307	(11) EP1661514
(00) Patent Expired	(00) 11.09.2023	(00) 11.09.2023
(11) EP1422286	(00) Patent Expired	(00) Patent Expired
(00) 08.09.2023	(11) EP1545243	(11) EP1663338
(00) Patent Expired	(00) 11.09.2023	(00) 11.09.2023
(11) EP1439781	(00) Patent Expired	(00) Patent Expired
(00) 11.09.2023	(11) EP1545574	(11) EP1669189
(00) Patent Expired	(00) 12.09.2023	(00) 08.09.2023
(11) EP1536685	(00) Patent Expired	(00) Patent Expired
(00) 09.09.2023	(11) EP1545835	(11) EP1673008
(00) Patent Expired	(00) 10.09.2023	(00) 12.09.2023
(11) EP1536692	(00) Patent Expired	(00) Patent Expired
(00) 11.09.2023	(11) EP1546119	(11) EP1720914
(00) Patent Expired	(00) 09.09.2023	(00) 06.06.2023
(11) EP1536717	(00) Patent Expired	(00) European Patent got Revoked
(00) 10.09.2023	(11) EP1546387	(11) EP2008690
	(00) 12.09.2023	(00) 09.09.2023

(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2023373	(11) EP2467744	(11) EP2685299
(00) 10.09.2023	(00) 10.05.2023	(00) 10.05.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2142870	(11) EP2471541	(11) EP2692910
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2204100	(11) EP2485251	(11) EP2695106
(00) 08.09.2023	(00) 11.09.2023	(00) 10.05.2023
(00) Patent Expired	(00) Patent Expired	(00) EPV Ceased Effect
(11) EP2212755	(11) EP2492616	(11) EP2716916
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2216805	(11) EP2537222	(11) EP2726600
(00) 11.09.2023	(00) 10.05.2023	(00) 06.10.2022
(00) Patent Expired	(00) EPV Ceased Effect	(00) European Patent got Revoked
(11) EP2222123	(11) EP2539926	(11) EP2731680
(00) 10.09.2023	(00) 10.05.2023	(00) 10.05.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2239764	(11) EP2544587	(11) EP2735488
(00) 11.09.2023	(00) 10.05.2023	(00) 10.05.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2249148	(11) EP2554302	(11) EP2743573
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2249380	(11) EP2558516	(11) EP2744009
(00) 11.09.2023	(00) 10.05.2023	(00) 10.05.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2267763	(11) EP2561384	(11) EP2744010
(00) 11.09.2023	(00) 10.05.2023	(00) 10.05.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2284872	(11) EP2587379	(11) EP2758355
(00) 11.09.2023	(00) 10.05.2023	(00) 10.05.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2325660	(11) EP2591468	(11) EP2767360
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2332996	(11) EP2593729	(11) EP2789760
(00) 08.09.2023	(00) 10.05.2023	(00) 10.05.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2343156	(11) EP2601015	(11) EP2806708
(00) 10.09.2023	(00) 10.05.2023	(00) 10.05.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2375878	(11) EP2628246	(11) EP2806790
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2388359	(11) EP2639986	(11) EP2812074
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2393537	(11) EP2642916	(11) EP2819336
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2394339	(11) EP2649059	(11) EP2823184
(00) 28.06.2023	(00) 21.07.2023	(00) 10.05.2023
(00) European Patent got Revoked	(00) European Patent got Revoked	(00) EPV Ceased Effect
(11) EP2402203	(11) EP2650635	(11) EP2827519
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2433841	(11) EP2652133	(11) EP2831785
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2438411	(11) EP2661302	(11) EP2833117
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2462800	(11) EP2664188	(11) EP2833709
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2837673	(11) EP2929613	(11) EP2993220
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2841959	(11) EP2934800	(11) EP3000303
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2851672	(11) EP2946510	(11) EP3000490
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2854669	(11) EP2948557	(11) EP3006633
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2857769	(11) EP2951879	(11) EP3008648
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2869100	(11) EP2953980	(11) EP3010703
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2880791	(11) EP2956437	(11) EP3012410
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2891327	(11) EP2956840	(11) EP3017882
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2893103	(11) EP2960153	(11) EP3018123
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2900318	(11) EP2961944	(11) EP3023133
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2900836	(11) EP2966419	(11) EP3025438
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2904421	(11) EP2967321	(11) EP3027556
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2904597	(11) EP2967332	(11) EP3028826
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2905605	(11) EP2968080	(11) EP3030185
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2908342	(11) EP2969696	(11) EP3032042
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2912601	(11) EP2972977	(11) EP3034325
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2915792	(11) EP2976000	(11) EP3043388
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2916355	(11) EP2979264	(11) EP3043836
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2918917	(11) EP2979631	(11) EP3048459
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2919712	(11) EP2980494	(11) EP3049769
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2920900	(11) EP2983113	(11) EP3050149
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2927985	(11) EP2985619	(11) EP3056264
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023



(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3058898	(11) EP3113225	(11) EP3154157
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3059321	(11) EP3113946	(11) EP3157001
(00) 12.09.2023	(00) 10.05.2023	(00) 10.05.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3061021	(11) EP3115741	(11) EP3158415
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3064566	(11) EP3116751	(11) EP3158580
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3068647	(11) EP3117920	(11) EP3158836
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3068807	(11) EP3117941	(11) EP3159163
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3069199	(11) EP3120021	(11) EP3160813
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3076596	(11) EP3121245	(11) EP3161474
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3077563	(11) EP3121578	(11) EP3162877
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3078283	(11) EP3123455	(11) EP3163852
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3080028	(11) EP3125192	(11) EP3165614
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3084033	(11) EP3129715	(11) EP3166222
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3084374	(11) EP3131914	(11) EP3168892
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3086411	(11) EP3131977	(11) EP3169309
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3092619	(11) EP3135275	(11) EP3170291
(00) 10.05.2023	(00) 04.08.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) European Patent got Revoked	(00) EPV Ceased Effect
(11) EP3094364	(11) EP3141239	(11) EP3170573
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3096871	(11) EP3141885	(11) EP3171666
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3099827	(11) EP3144540	(11) EP3172229
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3100171	(11) EP3147301	(11) EP3174855
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3102726	(11) EP3152543	(11) EP3178527
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3106673	(11) EP3153086	(11) EP3179138
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3111906	(11) EP3153586	(11) EP3179362
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3179619	(11) EP3219418	(11) EP3254331
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3182298	(11) EP3219680	(11) EP3256629
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3183648	(11) EP3223884	(11) EP3257432
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3186312	(11) EP3226298	(11) EP3261939
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3187913	(11) EP3226980	(11) EP3266077
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3189303	(11) EP3227052	(11) EP3267949
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3193551	(11) EP3228919	(11) EP3268120
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3196938	(11) EP3231632	(11) EP3268185
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3198524	(11) EP3232148	(11) EP3268940
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3199797	(11) EP3232246	(11) EP3269032
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3200231	(11) EP3235001	(11) EP3270703
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3200255	(11) EP3236137	(11) EP3271189
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3203523	(11) EP3238518	(11) EP3271581
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3205519	(11) EP3240654	(11) EP3273334
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3205687	(11) EP3242156	(11) EP3274730
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3209213	(11) EP3245558	(11) EP3275468
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3213401	(11) EP3246937	(11) EP3277758
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3213654	(11) EP3248877	(11) EP3278725
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3216736	(11) EP3250915	(11) EP3285263
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3217483	(11) EP3253161	(11) EP3286152
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3217823	(11) EP3253512	(11) EP3286642
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3219046	(11) EP3254305	(11) EP3287114
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3287500	(11) EP3308876	(11) EP3331299
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3287621	(11) EP3309382	(11) EP3332188
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3288795	(11) EP3309968	(11) EP3332383
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3290166	(11) EP3313300	(11) EP3337450
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3292592	(11) EP3316251	(11) EP3337467
(00) 10.05.2023	(00) 10.05.2023	(00) 05.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) European Patent got Revoked
(11) EP3292742	(11) EP3316567	(11) EP3337945
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3293558	(11) EP3316653	(11) EP3338967
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3295868	(11) EP3317347	(11) EP3341877
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3296561	(11) EP3317553	(11) EP3341923
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3298112	(11) EP3317625	(11) EP3342234
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3298992	(11) EP3319707	(11) EP3343341
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3299075	(11) EP3320322	(11) EP3343379
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3300286	(11) EP3320773	(11) EP3344026
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3300548	(11) EP3321407	(11) EP3344258
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3301125	(11) EP3321920	(11) EP3345553
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3301566	(11) EP3323246	(11) EP3347371
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3302882	(11) EP3323820	(11) EP3347748
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3304323	(11) EP3325070	(11) EP3347967
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3306346	(11) EP3326551	(11) EP3347987
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3306446	(11) EP3326807	(11) EP3349026
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3306462	(11) EP3327637	(11) EP3350562
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3306961	(11) EP3327891	(11) EP3350683
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3350913	(11) EP3372322	(11) EP3391150
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3353225	(11) EP3372564	(11) EP3391856
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3354944	(11) EP3374191	(11) EP3392924
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3357747	(11) EP3374643	(11) EP3394016
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3358316	(11) EP3374970	(11) EP3395504
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3358384	(11) EP3375562	(11) EP3395862
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3359263	(11) EP3376383	(11) EP3396348
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3359481	(11) EP3376486	(11) EP3396371
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3359909	(11) EP3377452	(11) EP3396860
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3360128	(11) EP3378275	(11) EP3399634
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3361363	(11) EP3378820	(11) EP3399740
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3361644	(11) EP3379045	(11) EP3400447
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3361960	(11) EP3379247	(11) EP3400986
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3361969	(11) EP3381173	(11) EP3401055
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3362529	(11) EP3381802	(11) EP3404735
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3363085	(11) EP3382049	(11) EP3404785
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3364034	(11) EP3382143	(11) EP3405717
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3369325	(11) EP3382287	(11) EP3405978
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3369760	(11) EP3382489	(11) EP3406336
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3370227	(11) EP3387411	(11) EP3406633
(00) 10.05.2023	(00) 10.05.2023	(00) 09.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) European Patent got Revoked
(11) EP3370230	(11) EP3389158	(11) EP3409545
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3370580	(11) EP3389477	(11) EP3410170
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3410312	(11) EP3426206	(11) EP3437216
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3410499	(11) EP3426339	(11) EP3437324
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3411120	(11) EP3427167	(11) EP3437598
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3411747	(11) EP3427908	(11) EP3437599
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3412837	(11) EP3428277	(11) EP3437610
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3413533	(11) EP3428388	(11) EP3438017
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3413888	(11) EP3429185	(11) EP3438241
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3415637	(11) EP3429272	(11) EP3438864
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3416064	(11) EP3429456	(11) EP3439407
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3416395	(11) EP3429662	(11) EP3440800
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3419093	(11) EP3429670	(11) EP3441609
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3419943	(11) EP3429808	(11) EP3443445
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3420319	(11) EP3431706	(11) EP3443975
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3420515	(11) EP3432134	(11) EP3444387
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3420560	(11) EP3433843	(11) EP3444847
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3420595	(11) EP3434189	(11) EP3444856
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3421914	(11) EP3434681	(11) EP3444883
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3422191	(11) EP3435855	(11) EP3446543
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3423504	(11) EP3435869	(11) EP3446740
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3423941	(11) EP3435878	(11) EP3446766
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3424595	(11) EP3436660	(11) EP3447383
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3424634	(11) EP3436959	(11) EP3447603
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3447815	(11) EP3466123	(11) EP3479539
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3448044	(11) EP3466835	(11) EP3479827
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3450378	(11) EP3467211	(11) EP3481134
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3451138	(11) EP3467263	(11) EP3481149
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3451312	(11) EP3467267	(11) EP3482848
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3451504	(11) EP3467553	(11) EP3483462
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3452141	(11) EP3468137	(11) EP3485525
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3454833	(11) EP3468246	(11) EP3486133
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3455192	(11) EP3468473	(11) EP3486262
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3456965	(11) EP3468931	(11) EP3486341
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3457290	(11) EP3469171	(11) EP3486885
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3457780	(11) EP3469185	(11) EP3490099
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3457847	(11) EP3471085	(11) EP3490498
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3459308	(11) EP3471927	(11) EP3491083
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3459687	(11) EP3473409	(11) EP3491755
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3460846	(11) EP3473530	(11) EP3491837
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3461700	(11) EP3474885	(11) EP3492227
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3461711	(11) EP3476165	(11) EP3492514
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3462426	(11) EP3477860	(11) EP3492636
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3462796	(11) EP3478151	(11) EP3493116
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3463536	(11) EP3478794	(11) EP3493192
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3465670	(11) EP3479464	(11) EP3493688
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3495604	(11) EP3507917	(11) EP3520931
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3495951	(11) EP3508292	(11) EP3521046
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3496086	(11) EP3508799	(11) EP3521108
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3496555	(11) EP3508886	(11) EP3521148
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3498523	(11) EP3509096	(11) EP3521280
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3498880	(11) EP3509787	(11) EP3521918
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3499220	(11) EP3509844	(11) EP3522551
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3499663	(11) EP3511867	(11) EP3523646
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3500548	(11) EP3511914	(11) EP3523827
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3502521	(11) EP3512038	(11) EP3524468
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3502582	(11) EP3512094	(11) EP3525757
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3503077	(11) EP3512811	(11) EP3526723
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3503372	(11) EP3513278	(11) EP3527113
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3504271	(11) EP3514097	(11) EP3527156
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3505149	(11) EP3514778	(11) EP3527308
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3505444	(11) EP3515564	(11) EP3528346
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3505470	(11) EP3515880	(11) EP3528430
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3506031	(11) EP3516981	(11) EP3530246
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3506403	(11) EP3517091	(11) EP3530607
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3507504	(11) EP3519689	(11) EP3531874
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3507523	(11) EP3520102	(11) EP3532778
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3507578	(11) EP3520737	(11) EP3534212
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3534449	(11) EP3548272	(11) EP3557410
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3535529	(11) EP3548549	(11) EP3558778
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3536020	(11) EP3549696	(11) EP3558950
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3536142	(11) EP3549978	(11) EP3559861
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3536426	(11) EP3550279	(11) EP3560201
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3536810	(11) EP3550315	(11) EP3561135
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3537303	(11) EP3551390	(11) EP3561273
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3537548	(11) EP3551433	(11) EP3561892
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3539750	(11) EP3551555	(11) EP3562775
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3541176	(11) EP3553092	(11) EP3563549
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3541313	(11) EP3553446	(11) EP3563611
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3542688	(11) EP3553528	(11) EP3563749
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3543288	(11) EP3553667	(11) EP3563975
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3545004	(11) EP3553864	(11) EP3565076
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3545164	(11) EP3554276	(11) EP3565473
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3545825	(11) EP3555100	(11) EP3566437
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3546808	(11) EP3555549	(11) EP3567711
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3546887	(11) EP3555585	(11) EP3568374
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3546901	(11) EP3555948	(11) EP3568706
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3547706	(11) EP3556414	(11) EP3568824
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3548193	(11) EP3556539	(11) EP3569183
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3548266	(11) EP3556970	(11) EP3569544
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023



(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3569842	(11) EP3576683	(11) EP3584852
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3570866	(11) EP3576809	(11) EP3584878
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3571411	(11) EP3577064	(11) EP3585777
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3571509	(11) EP3577720	(11) EP3586529
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3571522	(11) EP3578338	(11) EP3588114
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3571675	(11) EP3578706	(11) EP3588179
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3571737	(11) EP3579335	(11) EP3588325
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3571887	(11) EP3579479	(11) EP3588367
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3572155	(11) EP3579618	(11) EP3588714
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3572743	(11) EP3579795	(11) EP3588825
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3572943	(11) EP3580019	(11) EP3588913
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3573123	(11) EP3580318	(11) EP3589150
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3573214	(11) EP3580388	(11) EP3589395
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3573216	(11) EP3580998	(11) EP3589506
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3574056	(11) EP3581487	(11) EP3589690
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3574671	(11) EP3582239	(11) EP3590571
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3574818	(11) EP3582842	(11) EP3591581
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3575725	(11) EP3583663	(11) EP3592071
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3575935	(11) EP3583764	(11) EP3592219
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3576108	(11) EP3584207	(11) EP3592243
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3576375	(11) EP3584332	(11) EP3592351
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3576439	(11) EP3584400	(11) EP3592442
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3592724	(11) EP3601427	(11) EP3608320
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3592886	(11) EP3602035	(11) EP3608436
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3592887	(11) EP3602086	(11) EP3608558
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3593385	(11) EP3602788	(11) EP3609220
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3593421	(11) EP3603088	(11) EP3609576
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3593440	(11) EP3603434	(11) EP3609725
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3593475	(11) EP3603511	(11) EP3610453
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3593588	(11) EP3603544	(11) EP3611299
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3593784	(11) EP3603826	(11) EP3611623
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3594471	(11) EP3604345	(11) EP3612316
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3594592	(11) EP3604413	(11) EP3613107
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3594704	(11) EP3605083	(11) EP3613220
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3594740	(11) EP3605253	(11) EP3613276
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3595755	(11) EP3605597	(11) EP3613645
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3596588	(11) EP3605612	(11) EP3613946
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3598840	(11) EP3605664	(11) EP3614251
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3598905	(11) EP3605820	(11) EP3617021
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3599542	(11) EP3606073	(11) EP3617214
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3600257	(11) EP3606711	(11) EP3617454
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3600937	(11) EP3606808	(11) EP3617718
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3601202	(11) EP3606831	(11) EP3617802
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3601231	(11) EP3607732	(11) EP3618210
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3618281	(11) EP3626666	(11) EP3635561
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3618426	(11) EP3626972	(11) EP3636265
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3618496	(11) EP3627209	(11) EP3636508
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3618533	(11) EP3627279	(11) EP3636827
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3618595	(11) EP3627355	(11) EP3637231
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3620088	(11) EP3627485	(11) EP3637239
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3620933	(11) EP3628296	(11) EP3638164
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3621174	(11) EP3628557	(11) EP3638566
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3621288	(11) EP3628843	(11) EP3638567
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3622348	(11) EP3629042	(11) EP3638814
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3622584	(11) EP3629386	(11) EP3639205
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3622638	(11) EP3629477	(11) EP3639363
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3623626	(11) EP3629754	(11) EP3639669
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3623708	(11) EP3630018	(11) EP3640909
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3624392	(11) EP3630249	(11) EP3641055
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3624556	(11) EP3630790	(11) EP3642253
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3625474	(11) EP3630918	(11) EP3642727
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3625544	(11) EP3631624	(11) EP3642774
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3625792	(11) EP3633099	(11) EP3642858
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3625953	(11) EP3633915	(11) EP3643078
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3626089	(11) EP3633975	(11) EP3643333
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3626393	(11) EP3634555	(11) EP3643366
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3643539	(11) EP3650812	(11) EP3657520
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3643982	(11) EP3650873	(11) EP3657818
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3644383	(11) EP3651421	(11) EP3658893
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3645544	(11) EP3651578	(11) EP3659253
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3645873	(11) EP3651737	(11) EP3659786
(00) 22.03.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3646098	(11) EP3652124	(11) EP3659808
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3646173	(11) EP3652246	(11) EP3660059
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3646279	(11) EP3653230	(11) EP3660238
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3646353	(11) EP3653556	(11) EP3660305
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3646573	(11) EP3653808	(11) EP3660407
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3646894	(11) EP3653956	(11) EP3660735
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3647050	(11) EP3654059	(11) EP3662817
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3647312	(11) EP3654095	(11) EP3663225
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3647365	(11) EP3654581	(11) EP3663362
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3647389	(11) EP3655617	(11) EP3664057
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3647824	(11) EP3655639	(11) EP3664949
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3647855	(11) EP3655684	(11) EP3665644
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3648332	(11) EP3655721	(11) EP3666569
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3648370	(11) EP3655833	(11) EP3666704
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3649416	(11) EP3657103	(11) EP3667001
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3650649	(11) EP3657285	(11) EP3667178
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3650763	(11) EP3657509	(11) EP3667336
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3667424	(11) EP3674381	(11) EP3681080
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3667993	(11) EP3674497	(11) EP3681564
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3668286	(11) EP3674669	(11) EP3681588
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3668365	(11) EP3675213	(11) EP3681611
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3668679	(11) EP3675692	(11) EP3681963
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3669003	(11) EP3676548	(11) EP3682294
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3669511	(11) EP3677164	(11) EP3682323
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3669514	(11) EP3677546	(11) EP3683037
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3669558	(11) EP3677700	(11) EP3685041
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3669623	(11) EP3677845	(11) EP3685104
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3669738	(11) EP3677861	(11) EP3685721
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3670072	(11) EP3677969	(11) EP3686336
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3670271	(11) EP3678262	(11) EP3686412
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3670904	(11) EP3678304	(11) EP3686652
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3671153	(11) EP3679256	(11) EP3686981
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3671414	(11) EP3679322	(11) EP3686988
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3671640	(11) EP3679654	(11) EP3687159
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3671948	(11) EP3679713	(11) EP3687212
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3671967	(11) EP3680141	(11) EP3688317
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3672770	(11) EP3680382	(11) EP3688657
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3673754	(11) EP3680623	(11) EP3689161
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3673968	(11) EP3680658	(11) EP3689439
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3689551	(11) EP3696712	(11) EP3705314
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3689612	(11) EP3696800	(11) EP3705332
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3689627	(11) EP3697626	(11) EP3705517
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3689714	(11) EP3698900	(11) EP3705738
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3690192	(11) EP3699744	(11) EP3706082
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3690423	(11) EP3699774	(11) EP3706842
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3690436	(11) EP3699798	(11) EP3707043
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3690441	(11) EP3700140	(11) EP3707331
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3690459	(11) EP3700788	(11) EP3707373
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3690530	(11) EP3701288	(11) EP3707824
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3690587	(11) EP3701291	(11) EP3708055
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3690633	(11) EP3701352	(11) EP3708380
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3691241	(11) EP3701788	(11) EP3708793
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3692317	(11) EP3701852	(11) EP3709840
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3692340	(11) EP3702549	(11) EP3709907
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3693159	(11) EP3702829	(11) EP3710850
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3693618	(11) EP3703037	(11) EP3710886
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3695317	(11) EP3704483	(11) EP3711442
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3695459	(11) EP3704772	(11) EP3712198
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3695817	(11) EP3704872	(11) EP3712331
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3696160	(11) EP3705023	(11) EP3712522
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3696421	(11) EP3705297	(11) EP3712561
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3712690	(11) EP3721755	(11) EP3726528
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3713113	(11) EP3721761	(11) EP3726833
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3713331	(11) EP3721781	(11) EP3727451
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3714144	(11) EP3721849	(11) EP3727824
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3714770	(11) EP3721996	(11) EP3728082
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3714931	(11) EP3722334	(11) EP3728807
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3715177	(11) EP3722439	(11) EP3729035
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3715431	(11) EP3722459	(11) EP3729156
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3715631	(11) EP3722467	(11) EP3730089
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3715702	(11) EP3722720	(11) EP3730362
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3716640	(11) EP3722739	(11) EP3730958
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3717532	(11) EP3722757	(11) EP3732126
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3717607	(11) EP3722778	(11) EP3732377
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3717960	(11) EP3722819	(11) EP3732452
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3718264	(11) EP3723083	(11) EP3732522
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3718268	(11) EP3723200	(11) EP3732523
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3718621	(11) EP3723431	(11) EP3732770
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3718859	(11) EP3723435	(11) EP3732845
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3719468	(11) EP3725492	(11) EP3733085
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3719522	(11) EP3725631	(11) EP3733425
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3720907	(11) EP3725829	(11) EP3733467
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3721381	(11) EP3726299	(11) EP3733656
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3733793	(11) EP3742039	(11) EP3749532
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3733799	(11) EP3742106	(11) EP3749967
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3734087	(11) EP3742141	(11) EP3750066
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3734373	(11) EP3742686	(11) EP3750605
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3734592	(11) EP3742866	(11) EP3750714
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3737158	(11) EP3744034	(11) EP3750766
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3737440	(11) EP3744536	(11) EP3751179
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3737552	(11) EP3744870	(11) EP3751916
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3738248	(11) EP3744964	(11) EP3751918
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3738468	(11) EP3744990	(11) EP3752043
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3738825	(11) EP3745068	(11) EP3752805
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3739074	(11) EP3745192	(11) EP3754057
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3739317	(11) EP3745394	(11) EP3754115
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3739383	(11) EP3745580	(11) EP3754261
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3739426	(11) EP3745790	(11) EP3754344
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3740377	(11) EP3745939	(11) EP3754553
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3740408	(11) EP3746335	(11) EP3754738
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3741163	(11) EP3746857	(11) EP3754817
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3741819	(11) EP3747878	(11) EP3755087
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3741901	(11) EP3748070	(11) EP3755507
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3742004	(11) EP3748119	(11) EP3755558
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3742009	(11) EP3748703	(11) EP3755627
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023



(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3755764	(11) EP3762533	(11) EP3769052
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3756905	(11) EP3762626	(11) EP3769371
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3757353	(11) EP3762633	(11) EP3769883
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3757560	(11) EP3763104	(11) EP3770002
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3757672	(11) EP3763339	(11) EP3770047
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3758067	(11) EP3763957	(11) EP3770071
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3758314	(11) EP3764038	(11) EP3770163
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3758327	(11) EP3764045	(11) EP3770280
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3759051	(11) EP3764214	(11) EP3770281
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3759425	(11) EP3764293	(11) EP3770451
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3760122	(11) EP3764716	(11) EP3770600
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3760272	(11) EP3766437	(11) EP3770790
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3760388	(11) EP3766555	(11) EP3771096
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3760420	(11) EP3766752	(11) EP3771147
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3760799	(11) EP3766869	(11) EP3771247
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3760878	(11) EP3767018	(11) EP3771251
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3761130	(11) EP3767021	(11) EP3771359
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3761159	(11) EP3767218	(11) EP3771759
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3761194	(11) EP3767251	(11) EP3772070
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3761465	(11) EP3767256	(11) EP3772119
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3761661	(11) EP3767400	(11) EP3772301
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3761716	(11) EP3767873	(11) EP3772466
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3772962	(11) EP3780545	(11) EP3788848
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3774352	(11) EP3780579	(11) EP3788950
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3774435	(11) EP3781004	(11) EP3789095
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3774545	(11) EP3781574	(11) EP3789226
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3774648	(11) EP3782390	(11) EP3789392
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3775023	(11) EP3782998	(11) EP3789456
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3775589	(11) EP3783225	(11) EP3789736
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3775604	(11) EP3783319	(11) EP3789752
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3775686	(11) EP3783406	(11) EP3789992
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3777268	(11) EP3783594	(11) EP3790256
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3777704	(11) EP3783788	(11) EP3791658
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3777944	(11) EP3783915	(11) EP3792067
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3778034	(11) EP3784072	(11) EP3792209
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3778104	(11) EP3784985	(11) EP3792426
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3778220	(11) EP3785562	(11) EP3793162
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3779068	(11) EP3785785	(11) EP3793163
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3779162	(11) EP3785862	(11) EP3793206
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3779190	(11) EP3785908	(11) EP3793275
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3779336	(11) EP3785965	(11) EP3793307
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3779751	(11) EP3786105	(11) EP3793624
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3779985	(11) EP3786950	(11) EP3794094
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3780418	(11) EP3788743	(11) EP3794356
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3794477	(11) EP3800400	(11) EP3808646
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3795052	(11) EP3801655	(11) EP3809067
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3795071	(11) EP3801930	(11) EP3809222
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3795134	(11) EP3802515	(11) EP3809269
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3796908	(11) EP3803119	(11) EP3809285
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3797275	(11) EP3803304	(11) EP3809898
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3797802	(11) EP3803601	(11) EP3810844
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3797999	(11) EP3803926	(11) EP3811212
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3798421	(11) EP3804287	(11) EP3811701
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3798422	(11) EP3804470	(11) EP3811940
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3798718	(11) EP3805078	(11) EP3812091
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3798873	(11) EP3805435	(11) EP3812514
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3798974	(11) EP3806319	(11) EP3812576
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3799321	(11) EP3806338	(11) EP3812888
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3799382	(11) EP3806398	(11) EP3813917
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3799424	(11) EP3806475	(11) EP3814207
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3799528	(11) EP3806743	(11) EP3815596
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3799573	(11) EP3807737	(11) EP3815847
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3799832	(11) EP3807869	(11) EP3816030
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3799850	(11) EP3807934	(11) EP3816031
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3800013	(11) EP3808550	(11) EP3816086
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3800277	(11) EP3808595	(11) EP3816110
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3816203	(11) EP3822821	(11) EP3831797
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3816397	(11) EP3822917	(11) EP3831970
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3816408	(11) EP3823030	(11) EP3832282
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3816753	(11) EP3823233	(11) EP3833823
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3816962	(11) EP3823302	(11) EP3834017
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3817283	(11) EP3823326	(11) EP3834064
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3817357	(11) EP3826148	(11) EP3834226
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3817919	(11) EP3826597	(11) EP3834600
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3818046	(11) EP3827215	(11) EP3835038
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3818313	(11) EP3827530	(11) EP3835120
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3818437	(11) EP3827689	(11) EP3835449
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3818658	(11) EP3827933	(11) EP3835548
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3819136	(11) EP3828021	(11) EP3835550
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3819722	(11) EP3828221	(11) EP3835560
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3819897	(11) EP3828379	(11) EP3836018
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3820168	(11) EP3828612	(11) EP3837141
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3820245	(11) EP3829070	(11) EP3837290
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3820737	(11) EP3829105	(11) EP3837554
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3821511	(11) EP3829140	(11) EP3838761
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3821763	(11) EP3830729	(11) EP3838783
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3822364	(11) EP3830813	(11) EP3839386
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3822488	(11) EP3831257	(11) EP3840265
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3840361	(11) EP3848782	(11) EP3855334
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3840955	(11) EP3849204	(11) EP3855583
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3841239	(11) EP3849913	(11) EP3857057
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3841975	(11) EP3850642	(11) EP3857135
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3841979	(11) EP3851035	(11) EP3857911
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3842302	(11) EP3851495	(11) EP3858183
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3843306	(11) EP3851654	(11) EP3858617
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3843573	(11) EP3851820	(11) EP3858773
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3844937	(11) EP3851912	(11) EP3858775
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3845577	(11) EP3852441	(11) EP3859189
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3846009	(11) EP3852525	(11) EP3859246
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3846407	(11) EP3852561	(11) EP3859347
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3846517	(11) EP3852595	(11) EP3859495
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3846637	(11) EP3853089	(11) EP3859542
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3847028	(11) EP3853438	(11) EP3859793
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3847029	(11) EP3854236	(11) EP3859815
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3847397	(11) EP3854284	(11) EP3859910
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3847762	(11) EP3854588	(11) EP3859932
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3848180	(11) EP3854697	(11) EP3861774
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3848634	(11) EP3854719	(11) EP3862195
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3848748	(11) EP3855127	(11) EP3862525
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3848781	(11) EP3855192	(11) EP3863269
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3863474	(11) EP3875730	(11) EP3886551
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3864218	(11) EP3875763	(11) EP3886676
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3864377	(11) EP3875936	(11) EP3887734
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3864880	(11) EP3876342	(11) EP3888494
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3865013	(11) EP3877741	(11) EP3888882
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3865259	(11) EP3878588	(11) EP3888959
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3865724	(11) EP3879201	(11) EP3889014
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3865741	(11) EP3879513	(11) EP3889090
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3867575	(11) EP3879525	(11) EP3889332
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3867838	(11) EP3879533	(11) EP3889532
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3868089	(11) EP3879874	(11) EP3889778
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3868599	(11) EP3879889	(11) EP3890044
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3868654	(11) EP3880260	(11) EP3890157
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3868960	(11) EP3880349	(11) EP3890306
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3869339	(11) EP3881618	(11) EP3890648
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3869377	(11) EP3882196	(11) EP3891449
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3871323	(11) EP3882228	(11) EP3893293
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3872453	(11) EP3882776	(11) EP3893484
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3872903	(11) EP3883276	(11) EP3894487
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3874212	(11) EP3885524	(11) EP3896398
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3874973	(11) EP3885710	(11) EP3896452
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3875256	(11) EP3886206	(11) EP3897063
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3897347	(11) EP3907916	(11) EP3917806
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3898630	(11) EP3909653	(11) EP3918453
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3899197	(11) EP3910408	(11) EP3919196
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3899687	(11) EP3910653	(11) EP3919232
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3899726	(11) EP3910747	(11) EP3919372
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3901093	(11) EP3910910	(11) EP3919686
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3901346	(11) EP3910978	(11) EP3919701
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3901579	(11) EP3911006	(11) EP3919930
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3901862	(11) EP3911660	(11) EP3920489
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3902241	(11) EP3913294	(11) EP3920517
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3902351	(11) EP3913461	(11) EP3921366
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3902446	(11) EP3913905	(11) EP3921988
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3902608	(11) EP3914490	(11) EP3922166
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3902959	(11) EP3914501	(11) EP3922862
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3904453	(11) EP3915353	(11) EP3923356
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3904775	(11) EP3915354	(11) EP3923396
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3905044	(11) EP3915395	(11) EP3923405
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3905654	(11) EP3915714	(11) EP3923594
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3906232	(11) EP3915806	(11) EP3925023
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3906530	(11) EP3916361	(11) EP3925738
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3906986	(11) EP3916635	(11) EP3926238
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3907206	(11) EP3916695	(11) EP3927879
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3928991	(11) EP3936350	(11) EP3946923
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3929092	(11) EP3936359	(11) EP3947046
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3929353	(11) EP3936563	(11) EP3947854
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3929420	(11) EP3936887	(11) EP3948004
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3929467	(11) EP3937586	(11) EP3948005
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3929602	(11) EP3938093	(11) EP3948141
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3930161	(11) EP3938254	(11) EP3949385
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3930419	(11) EP3938736	(11) EP3949704
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3932270	(11) EP3939707	(11) EP3949766
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3932286	(11) EP3940026	(11) EP3949785
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3932698	(11) EP3940027	(11) EP3950092
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3932746	(11) EP3940501	(11) EP3950316
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3933798	(11) EP3942541	(11) EP3950552
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3933821	(11) EP3942643	(11) EP3950568
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3933899	(11) EP3942851	(11) EP3950723
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3933915	(11) EP3942936	(11) EP3951291
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3934028	(11) EP3943883	(11) EP3952615
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3934107	(11) EP3944748	(11) EP3952649
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3934112	(11) EP3944946	(11) EP3952759
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3935025	(11) EP3945271	(11) EP3953035
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3935107	(11) EP3945959	(11) EP3953623
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3936324	(11) EP3946084	(11) EP3954142
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023



(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3954609	(11) EP3961942	(11) EP3971119
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3954836	(11) EP3962021	(11) EP3973745
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3955006	(11) EP3962236	(11) EP3974221
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3955057	(11) EP3962311	(11) EP3974277
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3955506	(11) EP3962646	(11) EP3974606
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3955594	(11) EP3963121	(11) EP3976487
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3956531	(11) EP3964687	(11) EP3976675
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3956588	(11) EP3965063	(11) EP3976676
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3956645	(11) EP3965539	(11) EP3977404
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3956773	(11) EP3965603	(11) EP3977443
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3957387	(11) EP3965619	(11) EP3977561
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3957467	(11) EP3966717	(11) EP3977602
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3957958	(11) EP3967569	(11) EP3978373
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3958102	(11) EP3967741	(11) EP3978460
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3958254	(11) EP3967848	(11) EP3978495
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3958403	(11) EP3968104	(11) EP3978698
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3958516	(11) EP3968462	(11) EP3978833
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3959153	(11) EP3968566	(11) EP3978893
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3959570	(11) EP3969652	(11) EP3979104
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3960011	(11) EP3969837	(11) EP3979429
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3960504	(11) EP3970768	(11) EP3979488
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3960556	(11) EP3971007	(11) EP3979662
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3979676	(11) EP3991890	(11) EP4005768
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3980352	(11) EP3991912	(11) EP4006277
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3980427	(11) EP3992624	(11) EP4006647
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3980429	(11) EP3995358	(11) EP4006731
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3980431	(11) EP3995634	(11) EP4008229
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3980583	(11) EP3995886	(11) EP4008513
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3982100	(11) EP3996199	(11) EP4008569
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3983176	(11) EP3996210	(11) EP4008574
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3983244	(11) EP3997534	(11) EP4008740
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3985284	(11) EP3998394	(11) EP4009528
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3985332	(11) EP3998395	(11) EP4009529
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3985974	(11) EP3998486	(11) EP4009804
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3986903	(11) EP3999729	(11) EP4011229
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3987650	(11) EP4000803	(11) EP4012520
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3988151	(11) EP4001786	(11) EP4013961
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3988806	(11) EP4002114	(11) EP4014516
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3988905	(11) EP4002433	(11) EP4014825
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3989257	(11) EP4003206	(11) EP4015960
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3990203	(11) EP4003688	(11) EP4015961
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3990301	(11) EP4004420	(11) EP4016154
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3990512	(11) EP4005171	(11) EP4016353
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3991064	(11) EP4005496	(11) EP4016744
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP4016774	(11) EP4047169	(11) EP4074665
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP4017578	(11) EP4047365	(11) EP4074902
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP4017735	(11) EP4047914	(11) EP4075041
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP4018973	(11) EP4048739	(11) EP4083119
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP4019671	(11) EP4049405	(11) EP4090310
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP4019697	(11) EP4049435	(11) EP4090423
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP4021174	(11) EP4050824	(11) EP4092330
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP4021880	(11) EP4051530	(11) EP4093983
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP4021881	(11) EP4052504	(11) EP4093985
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP4023734	(11) EP4052987	(11) EP4107394
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP4024220	(11) EP4057222	(11) EP4109127
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP4026705	(11) EP4058237	(11) EP4115090
(00) 10.05.2023	(00) 10.05.2023	(00) 10.05.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP4026756	(11) EP4058343	
(00) 10.05.2023	(00) 10.05.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP4029666	(11) EP4058749	
(00) 10.05.2023	(00) 10.05.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP4029972	(11) EP4060309	
(00) 10.05.2023	(00) 10.05.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP4029991	(11) EP4061755	
(00) 10.05.2023	(00) 10.05.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP4030252	(11) EP4063322	
(00) 10.05.2023	(00) 10.05.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP4035916	(11) EP4063438	
(00) 10.05.2023	(00) 10.05.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP4037859	(11) EP4063997	
(00) 10.05.2023	(00) 10.05.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP4038480	(11) EP4065022	
(00) 10.05.2023	(00) 10.05.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP4041978	(11) EP4067075	
(00) 10.05.2023	(00) 10.05.2023	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP4046834	(11) EP4071939	
(00) 10.05.2023	(00) 10.05.2023	

**VRB**

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

(11) 2029910  
(48) 20.09.2023  
(00) Inventor details  
(51) B01D 11/02  
C11B 1/00

---

**CO****Ingeschreven overdrachten.****Contains data concerning registered assignments or change of owners.**

(71) Suzhou Ribo Life Science Co., Ltd.	(73) ALSTOM Holdings
(73) Suzhou Ribo Life Science Co., Ltd.	(11) EP3812232
(11) EP2350279	(00) 25.08.2023
(00) 30.08.2023	(51) B61D 15/06
(51) A61K 31/711	B61D 17/06
C12N 15/113	B61G 11/14
(00) Assignment	(00) Assignment

---

(71) BYK-Chemie GmbH	
(73) BYK-Chemie GmbH	
(11) EP2303943	
(00) 30.08.2023	
(51) C08G 18/28	
C08G 18/48	
C08G 18/62	
C08G 18/75	
C08G 18/79	
C08L 75/08	
C09D 175/04	
C09D 11/03	
C09D 7/43	
(00) Assignment	

---

(71) Ellicott Dredge Technologies, LLC.	
(73) Ellicott Dredge Technologies, LLC.	
(11) EP2892316	
(00) 28.08.2023	
(51) A01D 44/00	
(00) Change of owner(s) name	

---

(71) Ellicott Dredge Technologies, LLC.	
(73) Ellicott Dredge Technologies, LLC.	
(11) EP3090989	
(00) 28.08.2023	
(51) C02F 11/12	
C02F 11/16	
(00) Change of owner(s) name	

---

(71) Tripenso AG	
(73) Tripenso AG	
(11) EP2694135	
(00) 30.08.2023	
(51) A61M 5/142	
A61M 39/02	
(00) Assignment	

---

(71) Paul Hadvary	
(73) Tripenso AG	
(11) EP2694135	
(00) 30.08.2023	
(51) A61M 5/142	
A61M 39/02	
(00) Assignment	

---

(71) Guangdong Pengkai Intelligent Equipment Manufacturing Co., Ltd Pengkai Environment Technology Corp.	
(73) Guangdong Pengkai Intelligent Equipment Manufacturing Co., Ltd Pengkai Environment Technology Corp.	
(11) 2029782	
(00) 30.08.2023	
(51) C02F 10/1/16	
C02F 3/30	
(00) Change of owner(s) name	

---

(71) ALSTOM Holdings	
----------------------	--

**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) EP3762085	(11) EP2929459	(11) EP3792880
(11) EP3855926	(11) EP3673828	(11) EP3963857
(11) EP3404154	(11) EP3790983	(11) EP3347794
(11) EP3200241	(11) EP3236808	(11) EP3361019
(11) EP3748452	(11) EP3247367	(11) EP3938091
(11) EP3327793	(11) EP3803254	(11) EP3962742
(11) EP4033211	(11) EP3802916	(11) EP3976557
(11) EP3760188	(11) EP3323546	(11) EP3634112
(11) EP3649292	(11) EP3870101	(11) EP3972717
(11) EP3921005	(11) EP3981358	(11) EP4022337
(11) EP3814250	(11) EP3864014	(11) EP3653307
(11) EP3931536	(11) EP3873776	(11) EP3799126
(11) EP3728280	(11) EP3904340	(11) EP3773974
(11) EP3191064	(11) EP3453224	(11) EP4022491
(11) EP3641594	(11) EP3732403	(11) EP3907075
(11) EP3677844	(11) EP3945039	(11) EP3970562
(11) EP3152210	(11) EP3825661	(11) EP3530382
(11) EP3144981	(11) EP3778056	(11) EP3840976
(11) EP3256667	(11) EP3829028	(11) EP3975588
(11) EP3313634	(11) EP3833024	(11) EP4056074
(11) EP3809812	(11) EP3986629	(11) EP3802946
(11) EP3449169	(11) EP3667683	(11) EP3548870
(11) EP3265096	(11) EP3298228	(11) EP3737579
(11) EP3353822	(11) EP3303164	(11) EP2643228
(11) EP3619368	(11) EP3755442	(11) EP3003994
(11) EP2391881	(11) EP3301241	(11) EP2979577
(11) EP3791019	(11) EP3793552	(11) EP3009207
(11) EP3655295	(11) EP3249246	(11) EP3105399
(11) EP2857745	(11) EP3683076	(11) EP3203237
(11) EP2986380	(11) EP3432861	(11) EP3268907
(11) EP3550089	(11) EP3523338	(11) EP3297956
(11) EP3506997	(11) EP3529305	(11) EP3368517
(11) EP3149390	(11) EP3444698	(11) EP3252525
(11) EP3583635	(11) EP3656974	(11) EP3427789
(11) EP3817871	(11) EP3755684	(11) EP3378579
(11) EP3649420	(11) EP3586407	(11) EP3518947
(11) EP3249086	(11) EP3589426	(11) EP3466644
(11) EP3631455	(11) EP3661613	(11) EP3898275
(11) EP3857611	(11) EP3692180	(11) EP3517258
(11) EP3585279	(11) EP3730504	(11) EP2845949
(11) EP3252934	(11) EP3734421	(11) EP2941649
(11) EP3612477	(11) EP3914514	(11) EP3725970
(11) EP4049264	(11) EP3996985	(11) EP3566607
(11) EP3707482	(11) EP3913160	(11) EP3820017
(11) EP3634461	(11) EP3858796	(11) EP3836493
(11) EP3687991	(11) EP3530539	(11) EP3194907
(11) EP3987919	(11) EP3673858	(11) EP3609911
(11) EP3800430	(11) EP3803928	(11) EP3285644
(11) EP3618783	(11) EP3824612	(11) EP3345671
(11) EP3694305	(11) EP3843350	(11) EP3917731
(11) EP4088643	(11) EP3840823	(11) EP4033957
(11) EP3656928	(11) EP3842111	(11) EP3869004
(11) EP3626092	(11) EP3880097	(11) EP3635386
(11) EP3775851	(11) EP3909696	(11) EP4133947
(11) EP3659454	(11) EP3946647	(11) EP3199073
	(11) EP3910465	(11) EP3492758

(11) EP3607292	(11) EP2783136	(11) EP3679803
(11) EP3717949	(11) EP2908860	(11) EP3718721
(11) EP4007279	(11) EP3133933	(11) EP3891771
(11) EP3664985	(11) EP3153208	(11) EP3914790
(11) EP3992410	(11) EP3377710	(11) EP3924574
(11) EP4005744	(11) EP3257080	(11) EP3956220
(11) EP3658894	(11) EP3796725	(11) EP4010164
(11) EP3533503	(11) EP3379940	(11) EP3240676
(11) EP3693066	(11) EP3712292	(11) EP3625740
(11) EP4107583	(11) EP3090813	(11) EP3607388
(11) EP3723383	(11) EP3313769	(11) EP3833828
(11) EP3347536	(11) EP3560183	(11) EP3824011
(11) EP3793074	(11) EP3373910	(11) EP3983649
(11) EP3864360	(11) EP3352369	(11) EP3774243
(11) EP3919041	(11) EP3772595	(11) EP3870916
(11) EP3368118	(11) EP3441159	(11) EP3798157
(11) EP3818795	(11) EP3235451	(11) EP4017821
(11) EP3961414	(11) EP3300406	(11) EP3697725
(11) EP3550568	(11) EP3489293	(11) EP3894773
(11) EP3941388	(11) EP3625178	(11) EP3991596
(11) EP3966356	(11) EP3566008	(11) EP3683521
(11) EP3872262	(11) EP3556184	(11) EP3693288
(11) EP4005380	(11) EP3506785	(11) EP3917694
(11) EP3541459	(11) EP3536947	(11) EP3739483
(11) EP3738464	(11) EP3598712	(11) EP3907418
(11) EP4004272	(11) EP3604809	(11) EP4023408
(11) EP4133877	(11) EP3477215	(11) EP3916067
(11) EP3727125	(11) EP3810348	(11) EP3828043
(11) EP3817954	(11) EP3609640	(11) EP3783760
(11) EP3787807	(11) EP3646047	(11) EP3796620
(11) EP3963757	(11) EP3672865	(11) EP4000707
(11) EP3821225	(11) EP3697930	(11) EP4023832
(11) EP4074216	(11) EP3343967	(11) EP3845139
(11) EP3844241	(11) EP3700590	(11) EP3921278
(11) EP3145504	(11) EP3436895	(11) EP3917769
(11) EP3805214	(11) EP3694956	(11) EP3958818
(11) EP3889541	(11) EP3636243	(11) EP3962845
(11) EP3894744	(11) EP3675847	(11) EP3980773
(11) EP3364437	(11) EP3712141	(11) EP4003587
(11) EP4165798	(11) EP3751833	(11) EP4138266
(11) EP3679911	(11) EP3864745	(11) EP4061589
(11) EP3515170	(11) EP3530208	(11) EP4021263
(11) EP3555562	(11) EP3594578	(11) EP3997240
(11) EP3754988	(11) EP3586780	(11) EP4030058
(11) EP3828378	(11) EP3615650	(11) EP3985094
(11) EP3717789	(11) EP3819359	(11) EP4031023
(11) EP3777679	(11) EP3625156	(11) EP4001726
(11) EP3945925	(11) EP3775293	(11) EP4133042
(11) EP3359316	(11) EP3787774	(11) EP4033056
(11) EP3817628	(11) EP3593211	(11) EP3934869
(11) EP4092195	(11) EP3794361	(11) EP3825542
(11) EP3699121	(11) EP3802381	(11) EP3901348
(11) EP3945388	(11) EP3768593	(11) EP4175874
(11) EP3838498	(11) EP3651468	(11) EP3901349
(11) EP3947188	(11) EP3784362	(11) EP3929370
(11) EP3996901	(11) EP3801126	(11) EP4006694
(11) EP3427284	(11) EP3891349	(11) EP3971531
(11) EP3615287	(11) EP3922102	(11) EP3155426
(11) EP3999789	(11) EP3771035	(11) EP2988163
(11) EP2548594	(11) EP3940251	(11) EP3159632
(11) EP3981576	(11) EP4008863	(11) EP3268585
(11) EP3635072	(11) EP3934830	(11) EP3389554



(11) EP3390529	(11) EP3902060	(11) EP3816357
(11) EP3459106	(11) EP3410028	(11) EP3840066
(11) EP3395436	(11) EP3917059	(11) EP3842434
(11) EP3472292	(11) EP3960952	(11) EP3848579
(11) EP3482175	(11) EP4149884	(11) EP3770963
(11) EP3402236	(11) EP3418645	(11) EP3751219
(11) EP3476525	(11) EP4157164	(11) EP3767187
(11) EP3474702	(11) EP4157165	(11) EP3756605
(11) EP3587108	(11) EP4053857	(11) EP3792372
(11) EP3759529	(11) EP3582741	(11) EP3799342
(11) EP3682675	(11) EP3791749	(11) EP3839451
(11) EP3536642	(11) EP3750443	(11) EP3921866
(11) EP3615001	(11) EP3892071	(11) EP3989823
(11) EP3592280	(11) EP3915393	(11) EP4018033
(11) EP3684287	(11) EP3795936	(11) EP4007948
(11) EP3684274	(11) EP3937839	(11) EP3914571
(11) EP3874791	(11) EP3952930	(11) EP3858590
(11) EP3675767	(11) EP3976492	(11) EP3925904
(11) EP3565129	(11) EP3994057	(11) EP4011513
(11) EP3685480	(11) EP4007797	(11) EP4175281
(11) EP3804961	(11) EP4004165	(11) EP4000735
(11) EP3828457	(11) EP3972207	(11) EP3155839
(11) EP3640627	(11) EP4076829	(11) EP3081964
(11) EP3788139	(11) EP3879121	(11) EP3230439
(11) EP3802299	(11) EP3871849	(11) EP3297519
(11) EP3733859	(11) EP3893097	(11) EP3387908
(11) EP3847035	(11) EP4104724	(11) EP3405299
(11) EP3694982	(11) EP4106692	(11) EP3383237
(11) EP4034408	(11) EP4057271	(11) EP3475282
(11) EP3849668	(11) EP2029273	(11) EP3559119
(11) EP3864387	(11) EP2582284	(11) EP3538415
(11) EP3848490	(11) EP2933373	(11) EP3596655
(11) EP3630684	(11) EP3037042	(11) EP3691815
(11) EP3730706	(11) EP3075340	(11) EP3649764
(11) EP3828052	(11) EP3092080	(11) EP3620356
(11) EP3800898	(11) EP3216012	(11) EP3752947
(11) EP3838462	(11) EP3261093	(11) EP3774320
(11) EP3962723	(11) EP3389456	(11) EP3807916
(11) EP3906165	(11) EP3359200	(11) EP3814015
(11) EP4037573	(11) EP3284430	(11) EP3877164
(11) EP3809111	(11) EP3407803	(11) EP3837460
(11) EP4065479	(11) EP3568891	(11) EP3864480
(11) EP3881958	(11) EP3538081	(11) EP3851108
(11) EP3879280	(11) EP3554540	(11) EP3820368
(11) EP4086646	(11) EP3498149	(11) EP3904240
(11) EP4018893	(11) EP3559967	(11) EP3808919
(11) EP4090199	(11) EP3621478	(11) EP3987116
(11) EP3066020	(11) EP3635298	(11) EP3993917
(11) EP3141673	(11) EP3613888	(11) EP3986328
(11) EP3620123	(11) EP3697736	(11) EP3996861
(11) EP3746245	(11) EP3688705	(11) EP4041356
(11) EP3147099	(11) EP3537694	(11) EP4073204
(11) EP3849859	(11) EP3734345	(11) EP4069934
(11) EP3341280	(11) EP3750403	(11) EP4026155
(11) EP3823320	(11) EP3608772	(11) EP3945168
(11) EP3467853	(11) EP3653804	(11) EP3993559
(11) EP3744415	(11) EP3747042	(11) EP4039128
(11) EP3795031	(11) EP3804482	
(11) EP4002032	(11) EP3833963	
(11) EP4028835	(11) EP3864186	
(11) EP3349192	(11) EP3999917	
(11) EP3871797	(11) EP3898559	

## **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).**