



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.	7 <b>Heading NP1</b> Contains data concerning Netherlands patent applications which have been entered in the patent register under the Patents Act 1995.	7
<b>Rubriek NP2</b> Bevat gegevens betreffende ingeschreven en verleende octrooien op grond van de Octrooiwet 1995.	8 <b>Heading NP2</b> Contains data concerning Netherlands patents which have been entered in the patent register under the Patents Act 1995.	8
<b>Rubriek NP3</b> Bevat gegevens betreffende Nederlandse octrooien na gedeeltelijke afstand conform artikel 63 van de Octrooiwet 1995.	9 <b>Heading NP3</b> Contains data concerning Netherlands patents after partial renunciation confirm Article 63 of the Patents Act 1995.	9
<b>Rubriek EP1</b> Bevat gegevens betreffende vertaalde conclusies van Europese octrooiaanvragen.	10 <b>Heading EP1</b> Contains data concerning translations of the conclusions of European patent applications.	10
<b>Rubriek EP2</b> Bevat gegevens betreffende voor Nederland verleende Europese octrooien.	11 <b>Heading EP2</b> Contains data concerning European patents granted for The Netherlands.	11
<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.	141 <b>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.	141
<b>Rubriek EP4</b> Bevat gegevens betreffende voor Nederland verleende gewijzigde Europese octrooien.	207 <b>Heading EP4</b> Contains data concerning European patents granted in amended form for the Netherlands.	207
<b>Rubriek EP5</b> Bevat gegevens betreffende voor Nederland verleende gewijzigde	208 <b>Heading EP5</b> Contains data concerning European patents granted in amended form for	208

Europese octrooien waarvoor een gewijzigde vertaling is ingediend.	The Netherlands in which an amended translation was filed.	
<b>Rubriek SPC</b> Bevat gegevens betreffende ingeschreven en verleende certificaten	<b>210Heading SPC</b> Contains data concerning applications for- or granted Supplementary Protection Certificates.	210
<b>Rubriek VB1</b> Bevat gegevens betreffende rechten waarvoor een verzoek of bezwaarschrift is ingediend conform de Octrooiwet 1995.	<b>211Heading VB1</b> Contains data concerning requests and notices of opposition under the General administrative law.	211
<b>Rubriek VB2</b> Bevat gegevens betreffende rechten waarin een beslissing is genomen of waarvoor een nieuwheidsrapport is uitgegaan op een verzoek- of bezwaarschrift conform de Octrooiwet 1995.	<b>212Heading VB2</b> Contains data concerning requests and notices of opposition under the General administrative law in respect of which a decision has been taken or in respect for which a report has been made.	212
<b>Rubriek MED</b> Bevat gegevens betreffende overige mededelingen.	<b>213Heading MED</b> Contains data concerning other communications.	213
<b>Rubriek VRV</b> Bevat gegevens betreffende verval of nietigverklaring.	<b>214Heading VRV</b> Contains data concerning lapse or annulment.	214
<b>Rubriek VRB</b> Bevat gegevens betreffende verbeteringen op eerdere publicaties.	<b>239Heading VRB</b> Contains data concerning corrections on earlier publications.	239
<b>Rubriek CO</b> Bevat gegevens betreffende wijzigingen in het octrooiregister.	<b>240Heading CO</b> Contains data concerning changes in the Netherland patent register.	240
<b>Rubriek TVH</b> Bevat gegevens betreffende topografieën van halfgeleiderproducten.	<b>242Heading TVH</b> Contains data concerning depots of original topographies of semi-conductor products.	242

## 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 octrooiën	(84) Designated Contracting States under regional patent conventions
(86) Nummer van omgezette aanvraag	(86) Application number of a PCT-application or number of European patent which is converted into a national application
(87) Datum en nummer van een PCT aanvraag	(87) Publication date and number of a PCT application
(92) Certificaten: nummer en datum van de eerste nationale vergunning voor een geneesmiddel	(92) For an SPC, number and date of the first national authorization to place the product on the market as a medicinal product
(93) Datum en nummer van de eerste EU vergunning voor een geneesmiddel	(93) For an SPC, number and date and where applicable, country of origin, of the first authorization to place the product on the market as a medicinal product within a regional economic community
(94) Expiratiedatum voor een topografie	(94) Calculated date of expiry of the topography
(95) Certificaten: naam van het product	(95) Name of the product protected by the basic patent and in respect of which the SPC has been applied for or granted

**Rubrieken/Headings****NP1****Nederlandse octrooiaanvragen die zijn ingeschreven op grond van de Octrooiwet 1995.  
Contains data concerning Netherlands patent applications which have been entered in the patent register under the Patents Act 1995.**

(51) A01G 17/00	(71) WUHAN UNIVERSITY
A01G 7/06	(74) ir. W.J.J.M. Kempes
A01G 17/10	(72) Jing Dong
A01G 17/14	Longjian Xue
(21) 2029126	Zhongdong Qian
(22) 05.09.2021	(31) 202011184926.2
(54) METHOD FOR CULTIVATING TRUNK	(32) 29.10.2020
- SHAPED TREE FORM OF LYCIUM	(33) China
BARBARUM	(51) G03F 7/20
(71) Institute of Wolfberry Sciences Research,	H05G 2/00
Ningxia Academy of Agricultural and	(21) 2028111
Forestry Sciences	(22) 30.04.2021
(74) dr. T. Wittop Koning PhD	(54) TARGET SUPPLY DEVICE, TARGET
(72) Youlong Cao	SUPPLY METHOD, AND ELECTRONIC
Linyuan Duan	DEVICE MANUFACTURING METHOD
Ting Huang	(71) Gigaphoton Inc.
Xuan Zhou	(74) ir. H.Th. van den Heuvel c.s.
Ken Qin	(72) Yutaka Shiraishi
Guoli Dai	Tsukasa Hori
Xinru He	(31) 2020-108505
Jun He	(32) 24.06.2020
Jianwen Tian	(33) Japan
Bo Zhang	(51) H01Q 21/00
(41) 04.02.2022	(21) 2028511
(51) A61F 17/00	(22) 22.06.2021
G07F 11/00	(54) ANTENNA
(21) 1043684	(71) THALES NEDERLAND B.V.
(22) 10.06.2020	(74) mr. ir. J. van Breda c.s.
(54) Voorverpakte beschermingsset	(72) Robert Fennis
met verschillende soorten	Gertjan Henri Christiaan van Werkhoven
beschermingsartikelen tegen een ziekte	(31) 2025881
zoals een "coronavirus disease"	(32) 22.06.2020
(71) Dilara Astam	(33) Netherlands
(72) Dilara Astam	
(41) 04.02.2022	
(51) B09C	
(21) 2029895	
(22) 24.11.2021	
(54) METHOD FOR REMOVING HEAVY	
METALS IN LIVESTOCK MANURE/	
BIOGAS RESIDUES AND EKR-PRB	
COUPLING DEVICE	
(71) INSTITUTE OF SOIL SCIENCE,	
CHINESE ACADEMY OF SCIENCES	
(74) ir. W.J.J.M. Kempes	
(72) Zhigao Zhou	
Xingxiang Wang	
Jing Zhang	
Changfeng Ding	
Zhengfu Yue	
(51) F16S 5/00	
(21) 2029544	
(22) 28.10.2021	
(54) EROSION WEAR-RESISTANT BIONIC	
MICROSTRUCTURE SURFACE AND	
UNIT	

**NP2****Ingeschreven en verleende octrooien op grond van de Octrooiwet 1995.  
Contains data concerning Netherlands patents which have been entered in the patent register under the Patents Act 1995.**

- (51) A01G 17/00  
A01G 7/06  
A01G 17/10  
A01G 17/14
- (11) 2029126  
(47) 04.02.2022  
(22) 05.09.2021
- (54) METHOD FOR CULTIVATING TRUNK  
- SHAPED TREE FORM OF LYCIUM  
BARBARUM
- (73) Institute of Wolfberry Sciences Research,  
Ningxia Academy of Agricultural and  
Forestry Sciences
- (72) Youlong Cao  
Linyuan Duan  
Ting Huang  
Xuan Zhou  
Ken Qin  
Guoli Dai  
Xinru He  
Jun He  
Jianwen Tian  
Bo Zhang
- (74) dr. T. Wittop Koning PhD
- 
- (51) A01G 22/05  
A01G 7/00
- (11) 2029671  
(47) 04.02.2022  
(22) 08.11.2021
- (54) SCREENING METHOD OF HIGH-  
FERTILIZER-EFFICIENCY TOMATO  
ROOTSTOCKS
- (73) WEIFANG UNIVERSITY OF SCIENCE  
AND TECHNOLOGY  
SHANDONG SHOUGUANG  
VEGETABLE SEED INDUSTRY GROUP  
Co., Ltd.  
SHANDONG SHOUGUANG  
VEGETABLE INDUSTRY GROUP Co.,  
Ltd.
- (72) Yongjun Hu  
Xiaofei Xin  
Junyang Ding  
Jiajin Guo  
Guanjie Wang  
Subo Tian  
Lei Wang  
Xinqing Liu
- (74) ir. M.B. Plaggenborg
- 
- (51) A61F 17/00  
G07F 11/00
- (11) 1043684  
(47) 04.02.2022  
(22) 10.06.2020
- (54) Voorverpakte beschermingsset  
met verschillende soorten  
beschermingsartikelen tegen een ziekte  
zoals een "coronavirus disease"
- (73) Dilara Astam

### 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.**

(51) F24D 13/04  
H05B 6/10  
(11) 2020519  
(47) 12.09.2019  
(22) 02.03.2018  
(54) Verwarmingsinrichting  
(73) TI-Green IP B.V.  
(72) Henricus Johannes Franciscus Maria  
Verhagen  
(00) Akte gedeeltelijke afstand gemeld

**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) A01D 34/30	(72) Hacker, Josef	(51) A01G 18/69
(11) EP3704927	(31) 102019000042	A01G 18/62
(21) EP19214391.5	(32) 02.01.2019	A01G 18/70
(47) 09.02.2022	(33) Germany	(11) EP3626050
(22) 09.12.2019	(51) A01D 75/20	(21) EP19209083.5
(54) CUTTING ASSEMBLY FOR AN	(11) EP3815506	(47) 09.02.2022
AGRICULTURAL HARVESTER	(21) EP19206573.8	(22) 26.05.2017
(73) CLAAS Selbstfahrende Erntemaschinen	(47) 09.02.2022	(54) CULTIVATION RACK FOR
GmbH	(22) 31.10.2019	HORTICULTURAL PRODUCTS
(72) Lütkeschümer, Malte	(54) A PROTECTION SYSTEM AND	(73) Christiaens Group B.V.
Dehmelt, Jan	A METHOD OF FORMING A	(72) Christiaens, Martinus Leonardus
Herter, Felix	PROTECTING BARRIER ALONG	Hendrikus Maria
Eidhoff, Lukas	PLOUGH BODIES OF A REVERSIBLE	(31) 2016850
(31) 102019105635	MOULDBOARD PLOUGH IN A	(32) 27.05.2016
(32) 06.03.2019	TRANSPORT STATE	(33) Netherlands
(33) Germany	(73) Kverneland Group Operations Norway	(51) A01G 31/04
(51) A01D 41/127	AS	A01G 9/14
A01D 41/12	(72) Egholm, Arild	(11) EP3735824
(11) EP3351087	Hansen, Truls Olve Terjesønn	(21) EP18925999.7
(21) EP16841239.3	Renoult, Jerome	(47) 09.02.2022
(47) 09.02.2022	(51) A01D 87/12	(87) CN2018100242
(87) JP2016068106	A01F 29/00	16.01.2020
09.03.2017	A01F 29/01	(22) 13.08.2018
(22) 17.06.2016	A01F 29/12	(54) PLANT HYDROPONIC DEVICE AND
(54) COMBINE HARVESTER	(11) EP3557971	PLANT HYDROPONIC METHOD
(73) Kubota Corporation	(21) EP17822742.7	(73) Fujian Sanan Sino-Science Photobiotech
(72) SEKI Mitsuhiro	(47) 09.02.2022	Co., Ltd.
UEDA Mao	(87) GB2017053830	(72) SONG, Zemin
ANDO Yoshimasa	28.06.2018	HUANG, Yangyin
TAKAHARA Kazuhiro	(22) 20.12.2017	LI, Jing
(31) 2015188481	(54) BALE FEED OUT APPARATUS	LI, Shaohua
2015185363	(73) Wessex International Machinery	(31) 201810755327
2015173105	(72) WOLFENDEN, Roy	(32) 11.07.2018
(32) 25.09.2015	BROWNING, Charles	(33) China
18.09.2015	WILLS, Paul	(51) A01J 5/00
02.09.2015	(31) 201622059	A01K 1/12
(33) Japan	(32) 22.12.2016	(11) EP3424307
Japan	(33) United Kingdom	(21) EP18165835.2
Japan	(51) A01G 3/053	(47) 09.02.2022
(51) A01D 41/14	B25F 5/02	(22) 17.04.2012
A01D 41/16	(11) EP3162190	(54) MILKING BOX WITH ROBOTIC
A01D 69/00	(21) EP16188367.3	ATTACHER
(11) EP3669633	(47) 09.02.2022	(73) Technologies Holdings Corp.
(21) EP18213672.1	(22) 12.09.2016	(72) GROENSMA, Ype
(47) 09.02.2022	(54) HEDGE TRIMMER	VAN DER SLUIS, Peter Willem
(22) 18.12.2018	(73) Chervon (HK) Limited	HOFMAN, Henk
(54) A HEADER DRIVE MECHANISM FOR A	(72) LI, Li	(31) 201113095983
COMBINE HARVESTER	YAMAOKA, Toshinari	(32) 28.04.2011
(73) CNH Industrial Belgium NV	NIE, Fangjie	(33) United States of America
(72) Vandendriessche, Jean-Pierre	(31) 201510586701	(51) A01K 31/00
Duquesne, Frank R.G.	201510582764	E06B 9/17
Reubens, Sam	201510583676	(11) EP3574752
De Lathauwer, Tom A.	201510587038	(21) EP19173447.4
(51) A01D 46/247	(32) 15.09.2015	(47) 09.02.2022
(11) EP3677111	15.09.2015	(22) 09.05.2019
(21) EP19000593.4	15.09.2015	(54) ASSEMBLY WITH NESTING BOX FOR
(47) 09.02.2022	15.09.2015	RENOVATING A WINDOW
(22) 22.12.2019	(33) China	(73) AFL Foessel
(54) FRUIT PLUCKING AND COLLECTION	China	(72) POISSON, Olivier
DEVICE	China	(31) 1854753
(73) Hacker, Josef	China	(32) 01.06.2018

(33) France	(31) 102014112804	31.05.2019
(51) A01K 63/00	(32) 05.09.2014	(22) 17.09.2018
(11) EP3255982	(33) Germany	(54) PROCEDURE FOR THE PRODUCTION OF A MULTIPLIER AND MODULATOR ADDITIVE OF THE RUMINAL MICROBIOTE
(21) EP16753049.2	(51) A01N 25/02	(73) Biopremix Technologies LLC
(47) 09.02.2022	A01N 25/04	(72) PATERNÓ, Marcelo Alejandro
(87) US2016018445	A01N 25/22	(31) 37492
25.08.2016	A01N 25/28	(32) 23.11.2017
(22) 18.02.2016	A01N 33/02	(33) Uruguay
(54) CLOUD-BASED AUTONOMOUS AQUACULTURE SYSTEM	B01J 13/02	(51) A23K 20/142
(73) Forever Oceans Corporation	C05G 5/20	A23K 50/75
(72) HECKATHORN, Jason	C05G 5/23	(11) EP3466268
GOLDSBOROUGH, Mathew	C05G 5/27	(21) EP17802883.3
CHOP, Joseph	C05G 5/30	(47) 09.02.2022
(31) 201562118171 P	C05G 5/35	(87) JP2017019539
(32) 19.02.2015	B01J 13/16	30.11.2017
(33) United States of America	C05G 3/90	(22) 25.05.2017
(51) A01K 63/02	(11) EP3595442	(54) METHOD FOR IMPROVING FEED CONVERSION RATE,
A01K 63/00	(21) EP18766933.8	(73) Tsubakisangyo Co., Ltd.
A01K 63/10	(47) 09.02.2022	(72) TSUBAKI Kazuo
(11) EP3284342	(87) US2018022771	(31) 2016105486
(21) EP17183605.9	20.09.2018	(32) 26.05.2016
(47) 09.02.2022	(22) 16.03.2018	(33) Japan
(22) 27.07.2017	(54) MICROENCAPSULATED NITRIFICATION INHIBITOR COMPOSITIONS	(51) A23L 27/00
(54) HAND-HELD SUBMERSIBLE AQUARIUM POWER CLEANER	(73) Corteva Agriscience LLC	A23L 27/60
(73) Water Technology, LLC	(72) POWELS, Greg	(11) EP3773002
(72) LORYS, Thomas	LOGAN, Martin C.	(21) EP19724484.1
ERLICH, Guy	WILSON, Stephen L.	(47) 09.02.2022
MANY, John A.	LI, Mei	(87) EP2019062523
KOSMYNA, James	WILLIAMS, Alex	21.11.2019
ELLIOTT, Curtis	(31) 201762472628 P	(22) 15.05.2019
ELMALEH, Jonathan	(32) 17.03.2017	(54) EMULSIFIED FOOD COMPOSITION
(31) 201662367796 P	(33) United States of America	(73) Unilever IP Holdings B.V.
(32) 28.07.2016	(51) A01N 59/00	(72) VANDEVENNE, Evelien, Maria, Mathilda
(33) United States of America	A01N 43/64	SCHUMM, Stephan, Georg
(51) A01M 1/08	A01N 25/08	SILVA PAES, Sabrina
F21V 1/00	A01N 37/06	NIEMAN, Gerrit
F21V 7/22	A01N 37/46	(31) 18173295
F21S 2/00	A01N 49/00	(32) 18.05.2018
H05B 33/08	A01N 47/16	(33) European Patent Office (EPO)
(11) EP3427581	A01P 1/00	(51) A23L 33/00
(21) EP16894666.3	A01P 17/00	(11) EP3407738
(47) 09.02.2022	C02F 1/76	(21) EP17702062.5
(87) KR2016010104	(11) EP3232789	(47) 09.02.2022
21.09.2017	(21) EP15808653.8	(87) EP2017051580
(22) 08.09.2016	(47) 09.02.2022	03.08.2017
(54) INSECT TRAP	(87) EP2015079726	(22) 26.01.2017
(73) Seoul Viosys Co. Ltd.	23.06.2016	(54) COMPOSITIONS COMPRISING HUMAN MILK OLIGOSACCHARIDES FOR USE IN INFANTS OR YOUNG CHILDREN TO PREVENT OR TREAT ALLERGIES
(72) EOM, Hoon Sik	(22) 15.12.2015	(73) Société des Produits Nestlé S.A.
(31) 20160093593	(54) TABLETS FOR TREATING AND DISINFECTING WATER	(72) NEMBRINI, Chiara
20160030419	(73) Ercros, S.A.	BLANCHARD, Carine
(32) 22.07.2016	(72) GRACIA GORRIA, Francisco Andrés	(31) 16152753
14.03.2016	SIMÓN GAUDÓ, Elena	(32) 26.01.2016
(33) Korea (Republic)	ESPAÑA MARAVER, Francisco José	(33) European Patent Office (EPO)
Korea (Republic)	CORONAS CERESUELA, Joaquín	(51) A23L 33/135
(51) A01M 25/00	PASETA MARTÍNEZ, Lorena	A61K 9/00
(11) EP3188594	(31) 201431845	A61K 8/99
(21) EP15753032.0	(32) 16.12.2014	A23L 33/00
(47) 09.02.2022	(33) Spain	(11) EP3626081
(87) EP2015069066	(51) A23K 10/00	(21) EP19201220.1
10.03.2016	A23K 10/10	(47) 09.02.2022
(22) 19.08.2015	A23K 10/12	
(54) BAIT STATION, IN PARTICULAR BAIT FOR RODENT	(11) EP3713423	
(73) Buchstaller, Jürgen	(21) EP18793460.9	
(72) BITTLINGER, Wolfgang	(47) 09.02.2022	
BUCHSTALLER, Jürgen	(87) IB2018057096	

(22) 09.09.2016	(11) EP3229623	(31) 102018214918
(54) PASTEURIZED AKKERMANSIA FOR PROMOTING WEIGHT LOSS	(21) EP15810721.9	(32) 03.09.2018
(73) Wageningen Universiteit	(47) 09.02.2022	(33) Germany
Université catholique de Louvain	(87) US2015063929	<hr/>
(72) de VOS, Willem	16.06.2016	(51) A43B 1/04
CANI, Patrice	(22) 04.12.2015	A43B 23/02
BELZER, Clara	(54) GESTURE RECOGNITION USER INTERFACE FOR AN AEROSOL DELIVERY DEVICE	A43B 23/04
DRUART, Céline	(73) RAI Strategic Holdings, Inc.	A43B 7/12
EVERARD, Amandine	(72) LAMB, Wilson Christopher	A43B 13/16
PLOVIER, Hubert	HENRY, Raymond C Jr.	(11) EP3618657
(31) 15184758	KIMSEY, Glen Joseph	(21) EP18726654.9
(32) 10.09.2015	STONE, Mark Randall	(47) 09.02.2022
(33) European Patent Office (EPO)	AMPOLINI, Frederic Philippe	(87) US2018030874
<hr/>	AMPOLINI, Frederic Philippe	08.11.2018
(51) A24F 40/53	(31) 201414565137	(22) 03.05.2018
A24F 40/10	(32) 09.12.2014	(54) KNITTED COMPONENT FOR AN ARTICLE OF FOOTWEAR WITH TWO OR MORE MATERIAL COMPOSITIONS
A24F 40/60	(33) United States of America	(73) NIKE Innovate C.V.
(11) EP3542656	(51) A24F 47/00	(72) VASILEVSKI, Martin
(21) EP19173879.8	A61M 15/06	RUDOLF, Stacy M.
(47) 09.02.2022	(11) EP3537903	(31) 201762502362 P
(22) 11.03.2015	(21) EP17797298.1	(32) 05.05.2017
(54) AN AEROSOL DELIVERY DEVICE AND RELATED METHOD AND COMPUTER PROGRAM PRODUCT FOR CONTROLLING AN AEROSOL DELIVERY DEVICE BASED ON INPUT CHARACTERISTICS	(47) 09.02.2022	(33) United States of America
(73) RAI Strategic Holdings, Inc.	(87) EP2017078151	<hr/>
(72) HENRY, JR., Raymond Charles	17.05.2018	(51) A43B 1/04
AMPOLINI, Frederic Philippe	(22) 03.11.2017	A43B 23/02
(31) 201414209191	(54) AEROSOL-GENERATING SYSTEM HAVING VARIABLE AIRFLOW	A43B 23/24
(32) 13.03.2014	(73) Philip Morris Products S.A.	(11) EP3823483
(33) United States of America	(72) REEVELL, Tony	(21) EP19745525.6
<hr/>	(31) 16198749	(47) 09.02.2022
(51) A24F 40/53	(32) 14.11.2016	(87) US2019041162
A24F 40/20	(33) European Patent Office (EPO)	23.01.2020
(11) EP3691482	(51) A41D 31/02	(22) 10.07.2019
(21) EP18783438.7	B32B 5/26	(54) ARTICLE OF FOOTWEAR INCORPORATING KNITTED COMPONENTS AND A RECEIVING STRAP COMPONENT
(47) 09.02.2022	A41D 31/04	(73) Nike Innovate C.V.
(87) EP2018077032	B32B 3/26	(72) OORDT, Latane
11.04.2019	B32B 5/06	VASILEVSKI, Martin
(22) 04.10.2018	B32B 5/10	(31) 201862701315 P
(54) ELECTRICALLY OPERATED AEROSOL-GENERATING DEVICE WITH CONTINUOUS POWER REGULATION	B32B 27/12	(32) 20.07.2018
(73) Philip Morris Products S.A.	B32B 27/16	(33) United States of America
(72) COURBAT, Jerome Christian	B32B 27/40	<hr/>
(31) 17195037	A41D 31/06	(51) A43B 3/00
(32) 05.10.2017	(11) EP3530133	A43C 11/14
(33) European Patent Office (EPO)	(21) EP16919272.1	(11) EP3354148
<hr/>	(47) 09.02.2022	(21) EP18153548.5
(51) A24F 40/60	(87) CN2016102834	(47) 09.02.2022
A24F 40/40	26.04.2018	(22) 25.01.2018
A24F 40/53	(22) 21.10.2016	(54) CLOSURE DEVICE FOR A SPORTS FOOTWEAR PROVIDED WITH AN IMPROVED ACTUATING LEVER
A24F 40/10	(54) FEATHER PRODUCTS	(73) Tecnica Group S.p.A.
(11) EP3731666	(73) Jiaxing Deyong Textiles Co., Ltd.	(72) MACCARI, Dino
(21) EP18812304.6	(72) MATSUMOTO, Yasuhiro	SOLIGO, Davide
(47) 09.02.2022	LI, Xuefeng	GRANDIN, Giorgio
(87) IB2018059152	LU, Peiliang	(31) 201700009944
04.07.2019	(51) A43B 1/04	(32) 30.01.2017
(22) 21.11.2018	A43B 1/10	(33) Italy
(54) SURFACE CHANGING AEROSOL-GENERATING SYSTEM	A43B 3/26	<hr/>
(73) Philip Morris Products S.A.	A43B 23/02	(51) A43B 7/08
(72) CAMPITELLI, Gennaro	A43C 11/00	A43B 13/20
(31) 17210858	(11) EP3616547	A43B 7/10
(32) 28.12.2017	(21) EP19194698.7	(11) EP3476234
(33) European Patent Office (EPO)	(47) 09.02.2022	(21) EP18201580.0
<hr/>	(22) 30.08.2019	(47) 09.02.2022
(51) A24F 47/00	(54) SHOE UPPER AND METHOD OF PRODUCING THE SAME	(22) 19.10.2018
	(73) adidas AG	(54) VENTILATION SOLE FOR FOOTWEAR
	(72) SANDREUTER, Dominik	(73) Kyoungdo Co., Ltd.
	JUCKELANDT, Christoph	(72) Park, Chun Bae

(31) 20170138159	(22) 05.03.2020	(54) DEVICE FOR PREPARING A
(32) 24.10.2017	(54) BUCKLE	COSMETIC COMPOSITION AND
(33) Korea (Republic)	(73) Woojin Plastic Co., Ltd	ASSOCIATED PROCESS
(51) A43B 13/00	(72) PAIK, Ji Sook	(73) L'OREAL
B29D 35/12	PAIK, Ji Hye	(72) DEHAUDT, Eric
(11) EP3462963	PAIK, Nan Hee	(31) 1854311
(21) EP17726249.0	SON, Ji Won	(32) 23.05.2018
(47) 09.02.2022	(31) 20190153382	(33) France
(87) EP2017062407	(32) 26.11.2019	(51) A45F 5/00
30.11.2017	(33) Korea (Republic)	A47J 47/18
(22) 23.05.2017	(51) A45C 13/10	A47L 13/51
(54) METHOD AND APPARATUS FOR	E05B 15/00	(11) EP3768113
AUTOMATICALLY MANUFACTURING	H01F 7/02	(21) EP19715824.9
SHOE SOLES	A45C 13/12	(47) 09.02.2022
(73) adidas AG	(11) EP3763240	(87) EP2019056693
(72) FATHI, Amir	(21) EP20180735.1	26.09.2019
WARDLAW, Angus	(47) 09.02.2022	(22) 18.03.2019
ROMANOV, Victor	(22) 18.06.2020	(54) FASTENING ELEMENT FOR AN
DYCKMANS, Christoph	(54) LOCK AND CONTAINER WITH SUCH A	ACCESSORY PART FOR A PAIL,
LE, Tru Huu Minh	LOCK	ACCESSORY PART AND PAIL
KEMMER, Constantin Joachim Nikolas	(73) Sudhaus GmbH	(73) Hackner, Thomas
HOLMES, Christopher Edward	(72) Keidel, Stephan	(72) HACKNER, Thomas
LANDECK, Carsten	(31) 202019103812 U	GOTTWALD, Marcus
(31) 102016209045	(32) 10.07.2019	SCHNUR, Jens
(32) 24.05.2016	(33) Germany	HACKNER, Dietmar
(33) Germany	(51) A45D 8/36	(31) 100741
(51) A43B 13/12	A45D 19/00	(32) 19.03.2018
A43B 13/18	A45D 2/18	(33) Luxembourg
A43B 7/14	(11) EP3725182	(51) A46B 3/04
(11) EP3582647	(21) EP18888584.2	A46B 3/06
(21) EP18718020.3	(47) 09.02.2022	A46B 9/04
(47) 09.02.2022	(87) JP2018041879	A46B 9/06
(87) US2018023786	20.06.2019	A46D 3/04
27.09.2018	(22) 12.11.2018	(11) EP3445205
(22) 22.03.2018	(54) HAIR HOLDING TOOL AND METHOD	(21) EP17717674.0
(54) ARTICLE OF FOOTWEAR	FOR MANUFACTURING SAME	(47) 09.02.2022
INCORPORATING PARTICULATE	(73) Kao Corporation	(87) EP2017058757
MATTER	(72) KIBE, Yoshiyuki	26.10.2017
(73) Nike Innovate C.V.	TOJO, Takehiko	(22) 12.04.2017
(72) LEVY, Cassidy R.	(31) 2017240018	(54) BRUSH PRODUCT
HURD, John	(32) 14.12.2017	(73) Trisa Holding AG
MINAMI, Tetsuya T.	(33) Japan	(72) LÖTSCHER, Jost
(31) 201762476300 P	(51) A45D 20/52	STRÄHLER, Reto
(32) 24.03.2017	A46B 9/02	ZWIMPFER, Martin
(33) United States of America	A46B 9/10	TREVISAN, Oskar
(51) A43C 11/16	(11) EP3763241	(31) 16184981
A43B 3/00	(21) EP20180646.0	16166248
A43C 11/00	(47) 09.02.2022	(32) 19.08.2016
A43C 11/14	(22) 17.06.2020	20.04.2016
A43C 7/08	(54) IMPROVEMENT OF HAIR BRUSH	(33) European Patent Office (EPO)
(11) EP3763237	STRUCTURE	European Patent Office (EPO)
(21) EP20188825.2	(73) Chu, Peng-Fei	(51) A47B 88/487
(47) 09.02.2022	(72) Chu, Peng-Fei	(11) EP3071071
(22) 15.03.2017	(31) 201910619586	(21) EP14821498.4
(54) HOMING MECHANISM FOR	(32) 10.07.2019	(47) 09.02.2022
AUTOMATED FOOTWEAR PLATFORM	(33) China	(87) EP2014003311
(73) NIKE Innovate C.V.	(51) A45D 34/04	02.07.2015
(72) SCHNEIDER, Summer L.	B65D 81/32	(22) 11.12.2014
CHANG, Narissa	B65D 51/28	(54) DAMPING DEVICE
KELSO, Jamie	A45D 34/00	(73) Grass GmbH
(31) 201662308728 P	(11) EP3796808	(72) GRABHER, Günter
(32) 15.03.2016	(21) EP19725187.9	(31) 202013011559 U
(33) United States of America	(47) 09.02.2022	(32) 23.12.2013
(51) A44B 11/25	(87) EP2019063306	(33) Germany
A41D 13/00	28.11.2019	(51) A47B 88/95
(11) EP3827692	(22) 23.05.2019	A47B 88/956
(21) EP20161200.9		(11) EP3666122
(47) 09.02.2022		(21) EP19207033.2

(47) 09.02.2022	(33) Germany	(73) Essity Hygiene and Health Aktiebolag
(22) 05.11.2019	(51) A47G 19/12	(72) TIMDAHL, Håkan
(54) DRAWER ADJUSTMENT DEVICE FOR ADJUSTING A FRONT CONNECTOR	A47G 19/22	KLING, Robert
(73) Grass GmbH	B44C 1/16	HENRIKSSON, Björn
(72) Bonetti, Markus	(11) EP3434150	(51) A47L 9/06
(31) 202018107034 U	(21) EP18186290.5	(11) EP2989954
(32) 10.12.2018	(47) 09.02.2022	(21) EP15182274.9
(33) Germany	(22) 22.12.2015	(47) 09.02.2022
(51) A47B 96/20	(54) DRINKING OR EATING VESSEL	(22) 25.08.2015
A47B 91/00	(73) AT Promotions Ltd	(54) ACCESSORY FOR A SUCTION NOZZLE OF VACUUM CLEANERS OR THE LIKE
(11) EP3747313	(72) TURNER, Alexander E	(73) New Ermes Europe S.r.l.
(21) EP19178443.8	(31) 201462095652 P	(72) ROSCHI, Riccardo
(47) 09.02.2022	(32) 22.12.2014	(31) MI20141513
(22) 05.06.2019	(33) United States of America	(32) 26.08.2014
(54) METHOD OF MANUFACTURING A BASE PLATE MEMBER FOR A TABLE AND A PRODUCT THEREOF	(51) A47J 31/44	(33) Italy
(73) Rol Ergo AB	(11) EP3654809	(51) A47L 9/24
(72) Håkansson, Eskil	(21) EP18732279.7	F16L 27/08
(51) A47C 7/38	(47) 09.02.2022	(11) EP3517013
A47G 9/10	(87) EP2018065124	(21) EP17872802.8
A61F 5/00	24.01.2019	(47) 09.02.2022
B60N 2/80	(22) 08.06.2018	(87) KR2017012542
F16M 13/04	(54) METHOD FOR MANUALLY CONTROLLING AN OPERATING UNIT FOR DISPENSING STEAM FROM A COFFEE MACHINE AND CORRESPONDENT OPERATING UNIT	24.05.2018
A61G 5/12	(73) Steiner AG Weggis	(22) 07.11.2017
(11) EP3585212	(72) STEINER, Adrian	(54) VACUUM CLEANER AND CLEANING DEVICE HAVING SAME
(21) EP18756946.2	(31) 9452020	(73) Samsung Electronics Co., Ltd.
(47) 09.02.2022	(32) 20.07.2017	(72) LEE, Dong Hyun
(87) CA2018050217	(33) Switzerland	LIM, Won Kyu
30.08.2018	(51) A47J 37/07	KIM, Tae Gwang
(22) 26.02.2018	(11) EP3834682	(31) 20170083459
(54) HEAD SUPPORT AND METHOD OF USING THE SAME	(21) EP20209905.7	201662424837 P
(73) Vrat Inc.	(47) 09.02.2022	(32) 30.06.2017
(72) BÉRUBÉ, Sylvain	(22) 25.11.2020	21.11.2016
(31) 201762464091 P	(54) CONVERTIBLE SHELF FOR A COOKING APPLIANCE	(33) Korea (Republic)
(32) 27.02.2017	(73) Dansons US, LLC	United States of America
(33) United States of America	(72) JAMES, Chris	(51) A47L 9/28
(51) A47C 21/08	(31) 201916710477	(11) EP3116368
A61G 7/05	(32) 11.12.2019	(21) EP15761419.9
(11) EP3703535	(33) United States of America	(47) 09.02.2022
(21) EP18792377.6	(51) A47K 10/04	(87) US2015020335
(47) 09.02.2022	(11) EP3491983	17.09.2015
(87) DK2018050255	(21) EP18189108.6	(22) 13.03.2015
09.05.2019	(47) 09.02.2022	(54) AUTONOMOUS PLANAR SURFACE CLEANING ROBOT
(22) 12.10.2018	(22) 15.08.2018	(73) Ecovacs Robotics, Inc.
(54) GUARD RAIL FOR A BED, GUIDE RACK FOR A GUARD RAIL AND A BED WITH SUCH GUARD RAIL	(54) DEVICE FOR USE IN THE HOUSEHOLD, SANITARY AREA OR GARDEN	(72) QIAN, Dongqi
(73) Vendlet ApS	(73) BAHAG Baus Handelsgesellschaft AG	(31) 201414209543
(72) KOLD MUNDELING, Brian	(31) 202017107318 U	(32) 13.03.2014
WESTH MATTHESEN, Søren	(32) 30.11.2017	(33) United States of America
MAINDAL, Peter	(33) Germany	(51) A47L 9/28
(31) PA201770812	(51) A47K 10/32	(11) EP3184012
(32) 30.10.2017	A47K 5/12	(21) EP15833357.5
(33) Denmark	A47K 5/06	(47) 09.02.2022
(51) A47F 1/04	(11) EP3214987	(87) JP2015073034
(11) EP3598924	(21) EP14905528.7	25.02.2016
(21) EP19182848.2	(47) 09.02.2022	(22) 17.08.2015
(47) 09.02.2022	(87) SE2014051322	(54) ELECTRIC VACUUM CLEANER
(22) 27.06.2019	12.05.2016	(73) Toshiba Lifestyle Products & Services Corporation
(54) SUPPORT, INSERT AND DISPENSING DEVICE FOR UNPACKED GOODS	(22) 07.11.2014	(72) WATANABE Koichi
(73) Wanzl GmbH & Co. KGaA	(54) A BATTERY COMPARTMENT, AN ELECTRONICALLY DRIVEN DISPENSING UNIT AND A DISPENSER	TOMIYAMA Takashi
(72) Fetzer, Andreas	(31) 102018117730	(31) 2014167916
(31) 102018117730	(32) 23.07.2018	(32) 20.08.2014
(32) 23.07.2018		(33) Japan
		(51) A47L 15/16

(11) EP3515274	(21) EP18164514.4	(47) 09.02.2022
(21) EP17768127.7	(47) 09.02.2022	(87) EP2018079961
(47) 09.02.2022	(22) 28.03.2018	09.05.2019
(87) EP2017073397	(54) SUBJECTIVE OPTOMETRY	(22) 01.11.2018
29.03.2018	APPARATUS AND SUBJECTIVE	(54) OPTICAL SKIN SENSOR AND METHOD
(22) 18.09.2017	OPTOMETRY PROGRAM	FOR OPTICALLY SENSING SKIN
(54) A DISHWASHER	(73) Nidek Co., Ltd.	PARAMETERS
(73) Arçelik Anonim Sirketi	(72) HANEBUCHI, Masaaki	(73) Koninklijke Philips N.V.
(72) KUTUK, Erkan	TAKII, Michihiro	(72) RAS, Arnoldus, Johannes, Martinus,
TURGUL, Doruk	(31) 2017070653	Jozeph
GURSOY, Hasret	2017070652	BLOEMEN, Pascal, Jean, Henri
(31) 201613255	(32) 31.03.2017	HERMANS, Walter
(32) 22.09.2016	31.03.2017	VARGHESE, Babu
(33) Turkey	(33) Japan	(31) 17199740
(51) A47L 15/50	Japan	(32) 02.11.2017
(11) EP2465407	(51) A61B 3/028	(33) European Patent Office (EPO)
(21) EP11193127.5	A61B 3/032	(51) A61B 5/00
(47) 09.02.2022	A61B 3/15	A61B 5/0215
(22) 13.12.2011	(11) EP3329835	A61M 25/00
(54) Dishwasher	(21) EP17204901.7	(11) EP2934308
(73) BSH Hausgeräte GmbH	(47) 09.02.2022	(21) EP13864599.9
(72) Jobst, Johann	(22) 01.12.2017	(47) 09.02.2022
Küçük, Cengiz	(54) SUBJECTIVE OPTOMETRIC	(87) US2013075433
Moser, Hermann	APPARATUS	26.06.2014
(31) 102010063465	(73) NIDEK CO., LTD.	(22) 16.12.2013
(32) 17.12.2010	(72) SUZUKI, Ryoji	(54) WIRELESS INTERFACE DEVICES,
(33) Germany	KANDA, Hidenori	AND SYSTEMS FOR USE WITH
(51) A47L 17/08	HIRAYAMA, Yukito	INTRAVASCULAR PRESSURE
A47L 13/19	SHIBATA, Kazunori	MONITORING DEVICES
A47L 13/17	(31) 2016234521	(73) Philips Image Guided Therapy
(11) EP3653102	(32) 01.12.2016	Corporation
(21) EP19197098.7	(33) Japan	(72) ALPERT, Howard David
(47) 09.02.2022	(51) A61B 3/117	(31) 201261745418 P
(22) 12.09.2019	A61B 3/00	(32) 21.12.2012
(54) VEGETABLE FIBER SPONGE FOR	(11) EP3329839	(33) United States of America
DOMESTIC USE	(21) EP17205187.2	(51) A61B 5/00
(73) Mascato Esperón, Juan Carlos	(47) 09.02.2022	A61B 5/024
(72) Mascato, Juan Carlos	(22) 04.12.2017	A61B 5/1455
(31) 201831779 U	(54) OPHTHALMIC APPARATUS	A61B 5/026
(32) 19.11.2018	(73) Nidek Co., Ltd.	A61B 5/021
(33) Spain	(72) SUGIMOTO, Yoshihiko	A61B 5/08
(51) A61B 1/07	SUZUKI, Keita	(11) EP3638106
A61B 1/06	(31) 2017187997	(21) EP18737747.8
A61M 1/00	2016235511	(47) 09.02.2022
G02B 23/24	2016235510	(87) US2018036823
A61B 1/00	(32) 28.09.2017	20.12.2018
F21V 8/00	05.12.2016	(22) 11.06.2018
A61B 90/00	05.12.2016	(54) MULTICHANNEL REFLECTIVE
A61B 90/30	(33) Japan	OPTICAL MEDICAL SENSOR DEVICE
(11) EP3217857	Japan	(73) Boston Scientific Scimed, Inc.
(21) EP15859250.1	Japan	(72) DUVAL, George Wilfred
(47) 09.02.2022	(51) A61B 5/00	(31) 201762518725 P
(87) US2015060470	(11) EP2692286	(32) 13.06.2017
19.05.2016	(21) EP13177857.3	(33) United States of America
(22) 12.11.2015	(47) 09.02.2022	(51) A61B 5/00
(54) IMPROVED THERMALLY	(22) 24.07.2013	A61B 5/1455
CONTROLLED ILLUMINATION	(54) Electronic device for providing content	G01J 3/28
DEVICES	according to user's posture and content	G01N 21/35
(73) Invuity, Inc.	providing method thereof	(11) EP3214428
(72) ZAGATSKY, Vladimir	(73) Samsung Electronics Co., Ltd	(21) EP14905239.1
VAYSER, Alex	(72) Jung, Youn-gun	(47) 09.02.2022
ERISMANN, Fernando	Shin, Dong-yun	(87) KR2014010988
(31) 201462078729 P	(31) 20120083508	06.05.2016
(32) 12.11.2014	(32) 30.07.2012	(22) 14.11.2014
(33) United States of America	(33) Korea (Republic)	(54) TIME DIVISION SPREAD
(51) A61B 3/02	(51) A61B 5/00	SPECTRUM CODE-BASED OPTICAL
A61B 3/032	(11) EP3703553	SPECTROSCOPY SYSTEM CAPABLE
(11) EP3381350	(21) EP18796049.7	OF CONTROLLING IRRADIATION

POWER AND METHOD FOR CONTROLLING THE OPTICAL SPECTROSCOPY SYSTEM	A61B 10/02 (11) EP2744396 (21) EP12791254.1 (47) 09.02.2022	(54) SYSTEMS AND METHODS FOR PROVIDING USER INSIGHTS BASED ON REAL-TIME PHYSIOLOGICAL PARAMETERS
(73) Korea Advanced Institute of Science and Technology	(87) IB2012055449 18.04.2013	(73) Beijing Shunyuan Kaihua Technology Limited
(72) BAE, Hyeon Min CHOI, Jong Kwan HWANG, Gun Pil CHOI, Min Gyu KIM, Jae Myoung	(22) 09.10.2012 (54) MEDICAL PROBE WITH MULTI-FIBER LUMEN	(72) GALEEV, Artem (31) 201514622867 (32) 14.02.2015 (33) United States of America
(31) 20140149065 (32) 30.10.2014 (33) Korea (Republic)	(73) Koninklijke Philips N.V. (72) WINKEL, Axel BIERHOFF, Waltherus, Cornelis, Jozef HENDRIKS, Bernardus, Hendrikus, Wilhelmus LUCASSEN, Gerhardus, Wilhelmus VOSS, Stephan	(51) A61B 5/06 A61B 5/0515 A61B 6/00 A61B 34/20 A61B 6/04 A61B 17/00 A61B 90/00 (11) EP3518761 (21) EP17879656.1 (47) 09.02.2022 (87) IB2017001660 21.06.2018 (22) 13.12.2017 (54) MULTI-LAYER FLAT COIL MAGNETIC TRANSMITTERS
(51) A61B 5/00 A61B 5/22 A61H 1/02 (11) EP3801434 (21) EP19725687.8 (47) 09.02.2022 (87) EP2019062790 28.11.2019 (22) 17.05.2019 (54) METHOD AND SYSTEM FOR MEASURING ERGONOMIC LOAD	(31) 201161546696 P (32) 13.10.2011 (33) United States of America (51) A61B 5/021 (11) EP3087915 (21) EP16160276.8 (47) 09.02.2022 (22) 15.03.2016 (54) METHOD AND SYSTEM FOR NOISE CLEANING OF PHOTOPLETHYSMOGRAM SIGNALS FOR ESTIMATING BLOOD PRESSURE	(65) EP3518761 (21) EP17879656.1 (47) 09.02.2022 (87) IB2017001660 21.06.2018 (22) 13.12.2017 (54) MULTI-LAYER FLAT COIL MAGNETIC TRANSMITTERS
(73) Bioservo Technologies Aktiebolag (72) EWALDSSON, Martin, Oskar, Gustaf SLEMAN, Jan, Johan, Fredrik	(73) Tata Consultancy Services Limited (72) SINHA, Aniruddha GHOSE, Avik PAL, Arpan BANERJEE, Rohan CHOUDHURY, Anirban Dutta	(73) St. Jude Medical International Holding S.à r.l. (72) HERSCOVICI, Adrian IZMIRLI, Alon JACOBS, David HEVEL, Guy VAKNIN, Yuval (31) 201662433774 P (32) 13.12.2016 (33) United States of America
(31) 1850631 (32) 25.05.2018 (33) Sweden	(31) 1684MU2015 (32) 27.04.2015 (33) India	(51) A61B 5/08 A61B 5/087 (11) EP3148433 (21) EP15800175.0 (47) 09.02.2022 (87) AU2015050273 03.12.2015 (22) 25.05.2015 (54) METHODS AND APPARATUS FOR MONITORING CHRONIC DISEASE
(51) A61B 5/00 A61B 8/00 A61B 8/08 (11) EP3661416 (21) EP18842400.6 (47) 09.02.2022 (87) US2018012567 07.02.2019 (22) 05.01.2018 (54) METHOD AND SYSTEM FOR ESTIMATING FRACTIONAL FAT CONTENT OF AN OBJECT	(51) A61B 5/024 A61B 5/11 A61B 5/00 G16H 50/30 A61B 5/145 (11) EP3768166 (21) EP19715160.8 (47) 09.02.2022 (87) FR2019050505 26.09.2019 (22) 06.03.2019 (54) SYSTEM FOR PREDICTING A PATIENT'S BLOOD GLUCOSE LEVEL	(65) EP3518761 (21) EP17879656.1 (47) 09.02.2022 (87) IB2017001660 21.06.2018 (22) 13.12.2017 (54) MULTI-LAYER FLAT COIL MAGNETIC TRANSMITTERS
(73) ENDRA Life Sciences Inc. (72) THORNTON, Michael, M. CHO, Jang, Hwan	(73) Commissariat à l'Energie Atomique et aux Energies Alternatives (72) DORON, Eléonore Maeva BONNET, Stéphane ROMERO UGALDE, Hector-Manuel	(73) ResMed Sensor Technologies Limited (72) FARRUGIA, Steven Paul JAVED, Faizan (31) 2014901975 (32) 26.05.2014 (33) Australia
(31) 201715666535 (32) 01.08.2017 (33) United States of America	(31) 1852354 (32) 20.03.2018 (33) France	(51) A61B 5/103 A61B 5/00 A61B 5/024 (11) EP3378395 (21) EP18163072.4 (47) 09.02.2022 (22) 21.03.2018 (54) METHOD FOR PROVIDING INFORMATION RELATED TO SKIN AND ELECTRONIC DEVICE USING THE SAME
(51) A61B 5/00 A61B 8/08 A61B 8/00 G16H 50/30 (11) EP3668382 (21) EP18840715.9 (47) 09.02.2022 (87) US2018012575 07.02.2019 (22) 05.01.2018 (54) METHOD FOR ESTIMATING FRACTIONAL FAT CONTENT OF AN OBJECT	(51) A61B 5/024 A61B 5/11 G16H 50/30 H04L 12/16 (11) EP3240473 (21) EP16748818.8 (47) 09.02.2022 (87) IB2016050764 18.08.2016 (22) 12.02.2016	(51) A61B 5/06 A61B 5/0515 A61B 6/00 A61B 34/20 A61B 6/04 A61B 17/00 A61B 90/00 (11) EP3518761 (21) EP17879656.1 (47) 09.02.2022 (87) IB2017001660 21.06.2018 (22) 13.12.2017 (54) MULTI-LAYER FLAT COIL MAGNETIC TRANSMITTERS
(73) ENDRA Life Sciences Inc. (72) THORNTON, Michael M. CHO, Jang Hwan	(73) Samsung Electronics Co., Ltd. (72) LEE, Jaesung WON, Jinhee PARK, Minho LIM, Daehyeong LEE, Seungeun	(51) A61B 5/06 A61B 5/0515 A61B 6/00 A61B 34/20 A61B 6/04 A61B 17/00 A61B 90/00 (11) EP3518761 (21) EP17879656.1 (47) 09.02.2022 (87) IB2017001660 21.06.2018 (22) 13.12.2017 (54) MULTI-LAYER FLAT COIL MAGNETIC TRANSMITTERS
(31) 201715666546 (32) 01.08.2017 (33) United States of America	(31) 2014901975 (32) 26.05.2014 (33) Australia	(51) A61B 5/103 A61B 5/00 A61B 5/024 (11) EP3378395 (21) EP18163072.4 (47) 09.02.2022 (22) 21.03.2018 (54) METHOD FOR PROVIDING INFORMATION RELATED TO SKIN AND ELECTRONIC DEVICE USING THE SAME
(51) A61B 5/00	(51) A61B 5/024 A61B 5/11 G16H 50/30 H04L 12/16 (11) EP3240473 (21) EP16748818.8 (47) 09.02.2022 (87) IB2016050764 18.08.2016 (22) 12.02.2016	(51) A61B 5/06 A61B 5/0515 A61B 6/00 A61B 34/20 A61B 6/04 A61B 17/00 A61B 90/00 (11) EP3518761 (21) EP17879656.1 (47) 09.02.2022 (87) IB2017001660 21.06.2018 (22) 13.12.2017 (54) MULTI-LAYER FLAT COIL MAGNETIC TRANSMITTERS

KIM, Dongwook CHOI, Jongmin KIM, Taeho OH, Intaek LEE, Donghyun (31) 20170035569 (32) 21.03.2017 (33) Korea (Republic)	(73) Koninklijke Philips N.V. (72) CLAESSENS, Eric Franciscus Johannes (31) 201862716157 P 18198803 (32) 08.08.2018 05.10.2018 (33) United States of America European Patent Office (EPO)	(72) RAXWORTHY, Michael SERINO, Lorenzo Pio IDDON, Peter (31) 201117296 (32) 07.10.2011 (33) United Kingdom
(51) A61B 5/103 A61B 5/11 A61B 5/00 (11) EP3714785 (21) EP20164481.2 (47) 09.02.2022 (22) 20.03.2020 (54) WEARABLE APPARATUS AND A METHOD FOR CALCULATING DRIFT-FREE PLANTAR PRESSURE PARAMETERS FOR GAIT MONITORING (73) Tata Consultancy Services Limited (72) SINGHAL, Shivam CHANDEL, Vivek GHOSE, Avik (31) 201921011810 (32) 26.03.2019 (33) India	(51) A61B 8/00 A61B 8/08 (11) EP3727158 (21) EP18826527.6 (47) 09.02.2022 (87) EP2018084255 27.06.2019 (22) 11.12.2018 (54) COMBINING IMAGE BASED AND INERTIAL PROBE TRACKING (73) Koninklijke Philips N.V. (72) MERAL, Faik Can KRUECKER, Jochen (31) 201762607395 P (32) 19.12.2017 (33) United States of America	(51) A61B 17/00 A61M 25/00 A61B 18/14 (11) EP3612103 (21) EP18723213.7 (47) 09.02.2022 (87) US2018028583 25.10.2018 (22) 20.04.2018 (54) STABILIZATION OF A TRANSSEPTAL DELIVERY DEVICE (73) Medtronic, Inc. (72) HILL, Alexander (31) 201762487836 P (32) 20.04.2017 (33) United States of America
(51) A61B 5/145 G16H 20/17 (11) EP3485811 (21) EP18203738.2 (47) 09.02.2022 (22) 31.10.2018 (54) BLOOD GLUCOSE MONITORING AND CONTROLLING SYSTEM (73) Microjet Technology Co., Ltd (72) Huang, Chi-Feng Lee, Wei-Ming Han, Yung-Lung Tsai, Chang-Yen Chen, Hsuan-Kai Mou, Hao-Jan (31) 106140074 (32) 20.11.2017 (33) Taiwan, Province of China	(51) A61B 8/00 A61B 8/08 A61B 8/12 (11) EP3363365 (21) EP18156865.0 (47) 09.02.2022 (22) 10.12.2012 (54) AUTOMATIC IMAGING PLANE SELECTION FOR ECHOCARDIOGRAPHY (73) Koninklijke Philips N.V. (72) SALGO, Ivan WEESE, Juergen RADULESCU, Emil George (31) 201161569450 P (32) 12.12.2011 (33) United States of America	(51) A61B 17/02 A61B 17/28 (11) EP3629944 (21) EP18739959.7 (47) 09.02.2022 (87) IT2018000068 29.11.2018 (22) 09.05.2018 (54) MULTIFUNCTIONAL SURGICAL INSTRUMENT (73) COSTANTINI, Raffaele (72) COSTANTINI, Raffaele (31) 201700057439 (32) 26.05.2017 (33) Italy
(51) A61B 5/15 A61B 5/154 (11) EP3714790 (21) EP19177989.1 (47) 09.02.2022 (22) 03.06.2019 (54) PEN-TYPE BACKFLOW-PROOF RETRACTABLE FLOW VISIBLE BLOOD COLLECTION NEEDLE (73) Liu, Zhenkuan (72) Liu, Zhenkuan (31) 201920458071 U (32) 28.03.2019 (33) China	(51) A61B 8/00 A61B 8/12 A61B 8/00 A61B 8/15 (11) EP3389502 (21) EP16805385.8 (47) 09.02.2022 (87) EP2016079356 22.06.2017 (22) 01.12.2016 (54) ROTATION DETERMINATION IN AN ULTRASOUND BEAM (73) Koninklijke Philips N.V. (72) DE WIJS, Willem-Jan, Arend KOLEN, Alexander, Franciscus (31) 15200090 (32) 15.12.2015 (33) European Patent Office (EPO)	(51) A61B 17/04 A61B 17/062 A61B 17/06 (11) EP3720364 (21) EP18826780.1 (47) 09.02.2022 (87) GB2018053562 13.06.2019 (22) 07.12.2018 (54) A SEWING DEVICE (73) IP2IPO Innovations Limited (72) SENECL, Carlo Alberto HU, Yang YANG, Guang-Zhong (31) 201720496 (32) 08.12.2017 (33) United Kingdom
(51) A61B 8/00 (11) EP3833261 (21) EP19745155.2 (47) 09.02.2022 (87) EP2019070554 13.02.2020 (22) 30.07.2019 (54) EXTENSION CABLE FOR AN ULTRASOUND SYSTEM	(51) A61B 10/00 (11) EP2765921 (21) EP12781285.7 (47) 09.02.2022 (87) EP2012069551 11.04.2013 (22) 03.10.2012 (54) SAMPLING DEVICE (73) Neotherix Limited	(51) A61B 17/064 A61B 17/068 A61B 17/00 (11) EP3226777 (21) EP15865387.3 (47) 09.02.2022 (87) US2015062902 09.06.2016 (22) 30.11.2015 (54) APPARATUS FOR LOADING AND IMPLANTING A SHAPE MEMORY IMPLANT (73) Biomedical Enterprises, Inc. (72) TABER, Joseph, H.

CHENEY, Daniel, F. RITZ, Joseph, P. PERKINS, Luke, A. (31) 201514950321 201462086381 P (32) 24.11.2015 02.12.2014 (33) United States of America United States of America	14.11.2019 (22) 08.05.2019 (54) SURGICAL DEVICE OF REPERE (73) MT Ortho S.r.l. (72) NICOLETTI, Giovanni Federico (31) 201800005244 (32) 10.05.2018 (33) Italy	(54) Percutaneous spinal cross link system (73) Stryker European Operations Holdings LLC (72) Reitblat, Abram Bush, Charles L. JR. Talijan, David Dombrowski, Lori (31) 201361782278 P (32) 14.03.2013 (33) United States of America
(51) A61B 17/122 A61F 2/24 A61B 17/00 (11) EP3481336 (21) EP17824684.9 (47) 09.02.2022 (87) US2017037461 11.01.2018 (22) 14.06.2017 (54) DEVICE FOR TREATING VASCULAR INSUFFICIENCY (73) Edwards Lifesciences Corporation (72) SCHNEIDER, Ralph FRESCHAUF, Lauren, R. (31) 201715619220 201662359608 P (32) 09.06.2017 07.07.2016 (33) United States of America United States of America	(51) A61B 17/32 A61B 18/14 (11) EP3340898 (21) EP16754149.9 (47) 09.02.2022 (87) US2016047168 02.03.2017 (22) 16.08.2016 (54) ULTRASONIC SURGICAL INSTRUMENT WITH SLIDABLE FLEXING ACTIVATION MEMBER (73) Ethicon LLC (72) MUHLENKAMP, Tylor C. MADAN, Ashvani K. BAXTER, III, Chester O. DENZINGER, Kristen G. KIMBALL, Cory G. DICKERSON, Benjamin D. (31) 201514836383 (32) 26.08.2015 (33) United States of America	(51) A61B 17/70 A61B 17/86 (11) EP3210554 (21) EP16157477.7 (47) 09.02.2022 (22) 25.02.2016 (54) BONE ANCHOR (73) Biedermann Technologies GmbH & Co. KG (72) MATTHIS, Wilfried BIEDERMANN, Timo
(51) A61B 17/16 A61B 17/92 A61F 2/46 (11) EP3506842 (21) EP17847515.8 (47) 09.02.2022 (87) US2017049492 08.03.2018 (22) 30.08.2017 (54) OSTEOTOME (73) Shukla Medical (72) SWEITZER, Zachary (31) 201662381381 P (32) 30.08.2016 (33) United States of America	(51) A61B 17/70 A61B 17/00 (11) EP3193755 (21) EP15842936.5 (47) 09.02.2022 (87) US2015051251 24.03.2016 (22) 21.09.2015 (54) FUSION SYSTEMS OF ASSEMBLY AND USE (73) In Queue Innovations, LLC (72) NYCZ, Jeffrey SERBOUSEK, Jill, A. SERBOUSEK, Jon, C. (31) 201462052915 P (32) 19.09.2014 (33) United States of America	(51) A61B 18/02 A61M 25/10 A61B 18/00 A61B 90/00 A61M 25/09 (11) EP3562419 (21) EP18757984.2 (47) 09.02.2022 (87) US2018018953 30.08.2018 (22) 21.02.2018 (54) BLOOD VESSEL ISOLATION ABLATION DEVICE (73) St. Jude Medical, Cardiology Division, Inc. (72) TEGG, Troy DAHLEN, Travis (31) 201762461390 P (32) 21.02.2017 (33) United States of America
(51) A61B 17/17 A61B 17/86 A61B 17/88 (11) EP3618733 (21) EP18720635.4 (47) 09.02.2022 (87) EP2018061371 08.11.2018 (22) 03.05.2018 (54) IMPROVED BONE SCREW FOR THE TREATMENT OF BONE COLLAPSES OR DEFORMATIONS IN THE CASE OF THE CHARCOT FOOT (73) Orthofix S.r.l. (72) VICENZI, Federico (31) 201700048446 (32) 04.05.2017 (33) Italy	(51) A61B 17/70 A61B 17/16 A61B 17/00 A61B 17/88 A61B 17/02 A61B 90/00 (11) EP2777572 (21) EP14159769.0 (47) 09.02.2022 (22) 14.03.2014	(51) A61B 18/12 A61B 17/32 A61B 18/14 (11) EP3549536 (21) EP19175582.6 (47) 09.02.2022 (22) 05.04.2013 (54) DEVICES FOR CUTTING AND COAGULATING TISSUE

(73) Ethicon LLC	201562244565 P	(73) St. Jude Medical, Cardiology Division, Inc.
(72) TELLIO, Karalyn R. ALDRIDGE, Jeffrey L. YATES, David C. MESSERLY, Jeffrey D. STULEN, Foster B. WIENER, Eitan T. GIORDANO, James R. BERTKE, Brian D.	(32) 18.04.2016 21.10.2015 (33) United States of America United States of America	(72) TERWEY, Russell D. OLIVERIUS, Andrew R.
(31) 201313839014 201261621876 P	(51) A61B 18/14 A61B 90/00 G01K 13/00 G01K 11/32 A61B 34/20 A61B 18/00 A61B 17/00 G01K 7/02 G01K 13/20 G01K 11/3206	(31) 201762572868 P (32) 16.10.2017 (33) United States of America
(32) 15.03.2013 09.04.2012	(11) EP3624717 (21) EP18760057.2 (47) 09.02.2022 (87) IB2018055799 07.02.2019 (22) 01.08.2018 (54) OPTICAL FORCE SENSING CATHETER SYSTEM	(31) 201762572868 P (32) 16.10.2017 (33) United States of America (51) A61B 90/00 A61B 34/20 A61B 5/06 A61B 5/00 A61B 6/04 A61B 6/00 (11) EP3703605 (21) EP19721192.3 (47) 09.02.2022 (87) EP2019053217 15.08.2019 (22) 09.02.2019 (54) MECHANICAL DESIGN CONSIDERATIONS FOR TABLE-MOUNTED DEVICE USED AS A SUB-ASSEMBLY IN A MAGNETIC TRACKING SYSTEM WORKING IN CONJUNCTION WITH AN X-RAY IMAGING SYSTEM
(33) United States of America United States of America	(73) St. Jude Medical International Holding S.à r.l.	(51) A61B 18/12 A61B 18/14 A61M 25/01 A61B 17/34 (11) EP2964125 (21) EP13877096.1 (47) 09.02.2022 (87) US2013029501 12.09.2014 (22) 07.03.2013 (54) ELECTROSURGICAL SYSTEMS (73) ArthroCare Corporation (72) MARION, Duane W. GOODE, Johnson E. WOLOSZKO, Jean MORRISON, George YUAN, David
(51) A61B 18/12 A61B 18/14 A61M 25/01 A61B 17/34 (11) EP2964125 (21) EP13877096.1 (47) 09.02.2022 (87) US2013029501 12.09.2014 (22) 07.03.2013 (54) ELECTROSURGICAL SYSTEMS (73) ArthroCare Corporation (72) MARION, Duane W. GOODE, Johnson E. WOLOSZKO, Jean MORRISON, George YUAN, David	(31) 201762540409 P (32) 02.08.2017 (33) United States of America	(73) St. Jude Medical International Holding S.à r.l. (72) JACOBS, David HEVEL, Guy IZMIRLI, Alon HERSCOVICI, Adrian VAKNIN, Yuval (31) 201862783047 P 201862629086 P (32) 20.12.2018 11.02.2018 (33) United States of America United States of America
(51) A61B 18/12 G06T 19/20 A61B 34/10 (11) EP3340912 (21) EP16779295.1 (47) 09.02.2022 (87) US2016054283 13.04.2017 (22) 29.09.2016 (54) METHODS AND SYSTEMS FOR DISPLAYING ELECTROPHYSIOLOGICAL LESIONS (73) St. Jude Medical, Cardiology Division, Inc. (72) VOTH, Eric J. (31) 201562237850 P (32) 06.10.2015 (33) United States of America	(51) A61B 34/00 A61B 90/00 B25J 19/00 F16H 57/12 F16H 25/20 F16C 23/04 F16C 27/08 F16C 27/02 A61B 34/30 A61B 17/00 (11) EP3708105 (21) EP20168578.1 (47) 09.02.2022 (22) 13.08.2014 (54) PRELOADED SURGICAL INSTRUMENT INTERFACE (73) Intuitive Surgical Operations, Inc. (72) HOLOP, Robert E. COOPER, Thomas G. MCGROGAN, Anthony K. SOLOMON, Todd R. ANDERSON, Kent M. DUVAL, Eugene F. (31) 201361866115 P (32) 15.08.2013 (33) United States of America	(51) A61C 13/00 A61C 9/00 G06T 7/00 (11) EP3632369 (21) EP18198342.0 (47) 09.02.2022 (22) 02.10.2018 (54) METHOD FOR INCORPORATING PHOTOGRAPHIC FACIAL IMAGES AND/OR FILMS OF A PERSON INTO THE PLANNING OF ODONTOLOGICAL AND/OR COSMETIC DENTAL TREATMENTS AND/OR THE PREPARATION OF RESTORATIONS FOR SAID PERSON (73) DENTSPLY SIRONA Inc. SIRONA Dental Systems GmbH (72) Koza, André Hauth, Steffen Kucharczyk, Ronny
(51) A61B 18/14 A61B 5/287 A61B 5/00 A61B 18/00 (11) EP3791820 (21) EP20203250.4 (47) 09.02.2022 (22) 21.10.2016 (54) HIGH DENSITY ELECTRODE MAPPING CATHETER (73) St. Jude Medical, Cardiology Division, Inc. (72) CROW, John J. LIM, Eric OLSON, Gregory K. STERRETT, Terry L. SCHWEITZER, Jeffrey A. (31) 201662324067 P	(51) A61B 34/00 A61M 25/01 A61B 18/14 (11) EP3658212 (21) EP18796348.3 (47) 09.02.2022 (87) US2018055925 25.04.2019 (22) 15.10.2018 (54) TENSION ADJUSTMENT FOR STEERING ACTUATOR FOR DEFLECTABLE CATHETER	(51) A61C 17/16 A61C 17/22 (11) EP3583913 (21) EP19184938.9 (47) 09.02.2022 (22) 05.10.2015 (54) TOOTHBRUSH WITH AUTOMATIC DETECTION OF BRUSHING ANGLE (73) Koninklijke Philips N.V.

(72) SPRUIT, Johannes Hendrikus Maria PRINS, Menno Willem Jose OUWELTJES, Okke VAN GOOL, Edgar Martinus JOHNSON, Mark Thomas	A61B 17/064 (11) EP3689299 (21) EP20161693.5 (47) 09.02.2022 (22) 18.04.2018	(21) EP18730418.3 (47) 09.02.2022 (87) GB2018051349 13.12.2018 (22) 18.05.2018
(31) 201462060824 P (32) 07.10.2014 (33) United States of America	(54) HEART VALVE SEALING DEVICES (73) Edwards Lifesciences Corporation (72) CHEN, Jensen	(54) METHODS FOR MANUFACTURING IMPLANTABLE TISSUE REPAIR DEVICES (73) Orthox Limited (72) SKAER, Nicholas James Vavasour WALKER, Robert Alan
(51) A61C 17/22 A61C 17/20 A61C 17/34 (11) EP3740154 (21) EP18799455.3 (47) 09.02.2022 (87) EP2018079009 25.07.2019 (22) 23.10.2018 (54) TEETH CLEANING DEVICE AND CARRIER STRUCTURE FOR MOUTHPIECE OF A TEETH CLEANING DEVICE (73) BLBR GmbH (72) SÖRGEL, Norbert KEINER, Michael	(31) 201815953283 201815953263 201815953220 201815946604 201815927814 201815914143 201815910951 201815909803 201815884193 201762486835 P (32) 13.04.2018 13.04.2018 13.04.2018 05.04.2018 21.03.2018 07.03.2018 02.03.2018 01.03.2018 30.01.2018 18.04.2017	(31) 201708909 (32) 05.06.2017 (33) United Kingdom <hr/> (51) A61F 2/40 (11) EP3716918 (21) EP18833260.5 (47) 09.02.2022 (87) FR2018052997 06.06.2019 (22) 27.11.2018 (54) GLENOIDAL IMPLANT FOR SHOULDER PROSTHESIS (73) Shoulder Friends Institute (72) BARTH, Johannes GALLINET, David GUERY, Jacques CHAROUSSET, Christophe GARRET, Jérôme GODENECHÉ, Arnaud AUDEBERT, Stéphane JOUDET, Thierry LEFEBVRE, Yves
(31) 18185450 18152472 (32) 25.07.2018 19.01.2018 (33) European Patent Office (EPO) European Patent Office (EPO)	(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	(31) 1761298 (32) 28.11.2017 (33) France <hr/> (51) A61F 2/40 (11) EP3716916 (21) EP18833084.9 (47) 09.02.2022 (87) FR2018052994 06.06.2019 (22) 27.11.2018
(51) A61F 2/16 G02C 7/06 G02C 7/02 G02C 7/04 (11) EP2098192 (21) EP07860306.5 (47) 09.02.2022 (87) JP2007075084 03.07.2008 (22) 27.12.2007 (54) MULTIFOCAL EYE LENS (73) Hoya Corporation (72) SANGER, Demas (31) 2006353375 (32) 27.12.2006 (33) Japan	(51) A61F 2/24 A61F 2/90 (11) EP3457988 (21) EP17725087.5 (47) 09.02.2022 (87) US2017032284 23.11.2017 (22) 11.05.2017 (54) REPLACEMENT HEART VALVE IMPLANT WITH INVERTIBLE LEAFLETS (73) Boston Scientific Scimed, Inc. (72) CALOMENI, Michael P. BACKUS, Andrew, J.H (31) 201715466005 201662336944 P (32) 22.03.2017 16.05.2016 (33) United States of America United States of America	(54) HUMERAL ANCHOR COMPONENT WITHOUT STEM FOR HUMERAL IMPLANT OF SHOULDER PROSTHESIS (73) Shoulder Friends Institute (72) GUERY, Jacques CHAROUSSET, Christophe LEFEBVRE, Yves BARTH, Johannes JOUDET, Thierry GARRET, Jérôme AUDEBERT, Stéphane GALLINET, David GODENECHÉ, Arnaud (31) 1761299 (32) 28.11.2017 (33) France <hr/> (51) A61F 2/42 A61F 2/30 (11) EP3531982 (21) EP16787894.1 (47) 09.02.2022 (87) EP2016076075 03.05.2018 (22) 28.10.2016
(51) A61F 2/24 A61B 17/04 (11) EP3294218 (21) EP16793570.9 (47) 09.02.2022 (87) US2016032220 17.11.2016 (22) 12.05.2016 (54) DEVICE FOR RELEASING CATHETERS FROM CARDIAC STRUCTURES (73) Ancora Heart, Inc. (72) BARON, David, Scott SAMPSON, Russel KOTMEL, Rob MIRCHANDANI, Tiffany NGUYEN, Huu	(31) 201562160595 P (32) 12.05.2015 (33) United States of America <hr/> (51) A61F 2/24 A61B 17/12 A61B 17/00	

(54) PROSTHESIS FOR RECONSTRUCTION OF DISTAL AND PROXIMAL RADIOULNAR JOINTS.	(31) 201662335110 P (32) 12.05.2016 (33) United States of America	(72) XU, Fei WONG, Sun Hoi (31) 201610872248 16104923 16102762 (32) 30.09.2016 29.04.2016 10.03.2016 (33) China Hong Kong Hong Kong
(73) Swemac Innovation AB (72) ÖSTER, Lars ADOLFSSON, Lars ULLMAN, Michael HANSSON, Henrik	(51) A61F 5/00 A61F 5/44 A61F 5/445 A61F 5/448 A61F 13/02 A61F 13/00 A61F 5/443 (11) EP3454797 (21) EP16867368.9 (47) 09.02.2022 (87) US2016065787 26.05.2017 (22) 09.12.2016 (54) MOUNTING ASSEMBLIES FOR OSTOMY APPLIANCES COMPRISING AN ADHESIVE SKIN BARRIER MEMBER HAVING A MULTI-PETALED OUTER PERIMETER (73) Marlen Manufacturing And Development Co. (72) FENTON, Gary, H. (31) 201662335208 P (32) 12.05.2016 (33) United States of America	(51) A61F 13/533 A61F 13/45 (11) EP3634351 (21) EP17868490.8 (47) 09.02.2022 (87) SE2017050612 13.12.2018 (22) 09.06.2017 (54) DISPOSABLE HYGIENE ARTICLE WITH IMPROVED FIT (73) Essity Hygiene and Health Aktiebolag (72) EKSTEDT, Sofia SOHL, Josefin BAGGER-SJÖBÄCK, Anna RADNE, Viktoria
(51) A61F 2/44 (11) EP2967911 (21) EP14779459.8 (47) 09.02.2022 (87) US2014018872 09.10.2014 (22) 27.02.2014 (54) EXPANDABLE SPINAL IMPLANT SYSTEM (73) Warsaw Orthopedic, Inc. (72) HESS, Kyle A. WEI, Guobao BRITT, Charles A. PREVOST, Julien J. SCHLACHTER, Kelly W. KAES, David R. (31) 201313801170 (32) 13.03.2013 (33) United States of America	(51) A61F 2/966 A61F 2/24 A61M 25/10 A61F 2/95 A61F 2/958 (11) EP3860530 (21) EP19787507.3 (47) 09.02.2022 (87) US2019053138 09.04.2020 (22) 26.09.2019 (54) MEDICAL IMPLANT DELIVERY SYSTEM (73) Stryker European Holdings I, LLC STRYKER CORPORATION (72) BASHIRI, Mehran LUK, Henry OO, Elena (31) 201816152335 201816152334 (32) 04.10.2018 04.10.2018 (33) United States of America United States of America	(51) A61F 13/533 A61F 13/45 (11) EP3634352 (21) EP17870635.4 (47) 09.02.2022 (87) SE2017050610 13.12.2018 (22) 09.06.2017 (54) DISPOSABLE HYGIENE ARTICLE WITH IMPROVED FIT (73) Essity Hygiene and Health Aktiebolag (72) EKSTEDT, Sofia SVENSSON, Hanna BAGGER-SJÖBÄCK, Anna HANSON, Caj
(51) A61F 2/966 A61F 2/24 A61M 25/10 A61F 2/95 A61F 2/958 (11) EP3860530 (21) EP19787507.3 (47) 09.02.2022 (87) US2019053138 09.04.2020 (22) 26.09.2019 (54) MEDICAL IMPLANT DELIVERY SYSTEM (73) Stryker European Holdings I, LLC STRYKER CORPORATION (72) BASHIRI, Mehran LUK, Henry OO, Elena (31) 201816152335 201816152334 (32) 04.10.2018 04.10.2018 (33) United States of America United States of America	(51) A61F 5/00 A61F 5/44 A61F 5/445 A61F 5/448 A61F 13/02 A61F 5/443 (11) EP3454796 (21) EP16861076.4 (47) 09.02.2022 (87) US2016065774 04.05.2017 (22) 09.12.2016 (54) MULTI-PETALED MOUNTING MEMBERS FOR OSTOMY POUCHES (73) Marlen Manufacturing And Development Co. (72) FENTON, Gary H.	(51) A61F 13/533 A61F 13/45 (11) EP3634353 (21) EP17870636.2 (47) 09.02.2022 (87) SE2017050611 13.12.2018 (22) 09.06.2017 (54) DISPOSABLE HYGIENE ARTICLE WITH IMPROVED FIT (73) Essity Hygiene and Health Aktiebolag (72) EKSTEDT, Sofia HANSON, Caj SVENSSON, Hanna BAGGER-SJÖBÄCK, Anna
(51) A61F 5/00 A61F 5/44 A61F 5/445 A61F 5/448 A61F 13/02 A61F 5/443 (11) EP3454796 (21) EP16861076.4 (47) 09.02.2022 (87) US2016065774 04.05.2017 (22) 09.12.2016 (54) MULTI-PETALED MOUNTING MEMBERS FOR OSTOMY POUCHES (73) Marlen Manufacturing And Development Co. (72) FENTON, Gary H.	(51) A61F 13/42 G01N 27/00 (11) EP3426209 (21) EP16893330.7 (47) 09.02.2022 (87) CN2016111379 14.09.2017 (22) 21.12.2016 (54) ABSORBENT ARTICLE AND RELATED METHODS (73) SHENZHEN EDIAPER TECHNOLOGY LIMITED	(51) A61G 5/04 A61G 5/10 (11) EP3764967 (21) EP19710767.5 (47) 09.02.2022 (87) IB2019000104 19.09.2019 (22) 04.03.2019 (54) WHEELCHAIR (73) NP Technologies Holding Sàrl (72) Aubert, Jean-Pierre (31) 1870289

(32) 15.03.2018	(51) A61H 7/00	(72) ANDERSON, Douglas
(33) France	A61H 9/00	(31) 644618
(51) A61H 7/00	A61H 15/00	(32) 22.12.2006
A61H 9/00	(11) EP3621574	(33) United States of America
(11) EP3346967	(21) EP18719220.8	(51) A61K 8/25
(21) EP15778008.1	(47) 09.02.2022	A61K 8/26
(47) 09.02.2022	(87) FI2018050237	A61K 8/34
(87) IB2015001576	11.10.2018	A61K 8/60
16.03.2017	(22) 29.03.2018	A61K 8/73
(22) 08.09.2015	(54) SAUNA PAIL	A61K 8/86
(54) ABDOMINAL MASSAGE APPARATUS	(73) Northern Pails Oy	A61K 8/891
(73) Usmima, S.L.	(72) VOUTILAINEN, Jarno	A61K 8/92
(72) HERRERO FRESNEDA, Maria	(31) 20174097 U	A61K 8/04
Inmaculada	(32) 05.04.2017	A61Q 15/00
WILHELMS, Markus	(33) Finland	A45D 40/26
BENET POZO, Marc	(51) A61J 1/03	(11) EP2958631
CALZADA DEFEZ, Angel	A61J 7/02	(21) EP14704787.2
(51) A61H 9/00	A61J 7/04	(47) 09.02.2022
A61B 17/225	(11) EP3743034	(87) EP2014052926
A61H 23/00	(21) EP18836416.0	28.08.2014
A61H 19/00	(47) 09.02.2022	(22) 14.02.2014
A61H 23/02	(87) IB2018060676	(54) DISPENSING DEVICE COMPRISING
(11) EP3566684	01.08.2019	AN AQUEOUS COMPOSITION IN GEL
(21) EP18195979.2	(22) 28.12.2018	OR THICK CREAM FORM
(47) 09.02.2022	(54) SYSTEM FOR MONITORING AND/	(73) L'Oréal
(22) 21.09.2018	OR CONTROLLING MEDICATION-	(72) SPRINGINSFELD, Fabrice
(54) METHODS FOR ENHANCING FEMALE	TAKING BY A PATIENT AND METHOD	AUBRUN, Odile
ORGASM	ASSOCIATED THEREWITH	ALBISETTI, Nicolas
(73) Cliovana Ltd.	(73) Omnys S.r.l.	(31) 1351477
(72) Gordon, Robert	Palladio Group S.p.A.	(32) 21.02.2013
(31) 201862670250 P	(72) LATINI, Mauro Silvano	(33) France
(32) 11.05.2018	IANNIZZOTTO, Gabriele	(51) A61K 8/34
(33) United States of America	MARCHI, Antonio	A61K 8/41
(51) A61H 19/00	POZZA, Davide	A61Q 19/00
A61H 23/02	(31) 201800001807	A61K 8/04
(11) EP3720409	(32) 25.01.2018	(11) EP3515401
(21) EP18836741.1	(33) Italy	(21) EP17772582.7
(47) 09.02.2022	(51) A61K 6/887	(47) 09.02.2022
(87) US2018064746	A61K 6/16	(87) US2017051717
13.06.2019	A61K 6/17	29.03.2018
(22) 10.12.2018	A61K 6/71	(22) 15.09.2017
(54) FLEXIBLE STIMULATION DEVICE	A61K 6/76	(54) FOAM COMPOSITIONS, AEROSOL
(73) American Latex Corp.	(11) EP3508190	PRODUCTS, AND METHODS OF
(72) LEE, Calvin Spencer	(21) EP17846599.3	USING THE SAME
(31) 201762596276 P	(47) 09.02.2022	(73) The Procter & Gamble Company
(32) 08.12.2017	(87) JP2017031244	(72) ZIMMERMAN, Dean, Arthur
(33) United States of America	08.03.2018	MARSHALL, Larry, Wayne, Jr.
(51) A61H 31/00	(22) 30.08.2017	SUNKEL, Jorge, Max
A61H 11/00	(54) LIGHT CURABLE COMPOSITION	(31) 201662398580 P
(11) EP2755622	(73) Tokuyama Dental Corporation	(32) 23.09.2016
(21) EP12831660.1	(72) AKIZUMI, Hironobu	(33) United States of America
(47) 09.02.2022	FUKUDOME, Keishi	(51) A61K 8/35
(87) US2012055596	(31) 2016169468	A61K 8/37
21.03.2013	(32) 31.08.2016	A61P 25/22
(22) 14.09.2012	(33) Japan	A61Q 13/00
(54) CHEST COMPRESSION DEVICES	(51) A61K 8/24	C11B 9/00
FOR USE WITH IMAGING SYSTEMS,	A61Q 11/00	A61Q 5/02
AND METHODS OF USE OF CHEST	(11) EP2099416	A61Q 15/00
COMPRESSION DEVICES WITH	(21) EP07863109.0	(11) EP3313362
IMAGING SYSTEMS	(47) 09.02.2022	(21) EP16739342.0
(73) Zoll Circulation, Inc.	(87) US2007025944	(47) 09.02.2022
(72) PALAZZOLO, James, Adam	03.07.2008	(87) US2016040224
ILLINDALA, Uday Kiran, V.	(22) 17.12.2007	05.01.2017
(31) 201113234980	(54) ANTI-CALCULUS DENTAL	(22) 29.06.2016
(32) 16.09.2011	COMPOSITION AND METHODS FOR	(54) MUSK COMPOSITIONS AND
(33) United States of America	USING SAME	METHODS OF USE THEREOF
	(73) The PerioGen Company, Inc.	(73) Trujillo, Rafael
		Takasago International Corporation

(72) CILIA, Alba, T. TRUJILLO, Rafael KANG, Raphael, K. L.	LI, Qing Ri LI, Tie CHANG, Ye	(54) OPHTHALMIC DRUG SUSTAINED RELEASE FORMULATION AND USES THEREOF
(31) 201562186240 P	TONG, Chao	(73) Mati Therapeutics Inc.
(32) 29.06.2015	(31) 201710240597	(72) UTKHEDE, Deepank
(33) United States of America	(32) 13.04.2017	WISEMAN, David
(51) A61K 8/37	(33) China	JONES, Catherine
A61Q 19/00	(51) A61K 9/12	(31) 201662402938 P
A61K 8/36	A61P 15/00	(32) 30.09.2016
(11) EP3229750	(11) EP2968118	(33) United States of America
(21) EP15808598.5	(21) EP14720794.8	(51) A61K 9/16
(47) 09.02.2022	(47) 09.02.2022	A61K 9/19
(87) EP2015079472	(87) US2014026179	A61K 31/704
16.06.2016	25.09.2014	A61K 47/61
(22) 11.12.2015	(22) 13.03.2014	(11) EP3727342
(54) COMPOSITION COMPRISING CARBOHYDRATE PARTIAL ESTER	(54) MICROARRAY FOR DELIVERY OF THERAPEUTIC AGENT AND METHODS OF USE	(21) EP18830695.5
(73) BASF SE	(73) Corium, Inc.	(47) 09.02.2022
(72) KLOEKER, Markus	(72) DING, Zhongli	(87) US2018066232
MAHNKE, Eike Ulf	BOURNE, Doug	27.06.2019
MACHADO SINCERO, Melina	CHEN, Guohua	(22) 18.12.2018
BUSCH, Stefan	BAYRAMOV, Danir	(54) DRUG-LOADED MICROBEAD COMPOSITIONS, EMBOLIZATION COMPOSITIONS AND ASSOCIATED METHODS
(31) 14197689	GHARTEY-TAGOE, Esi	(73) C.R. Bard, Inc.
(32) 12.12.2014	SINGH, Parminder	(72) RANDALL, Michael
(33) European Patent Office (EPO)	(31) 201361799304 P	DO, Hiep
(51) A61K 9/00	(32) 15.03.2013	(31) 201762607080 P
A61K 36/9066	(33) United States of America	(32) 18.12.2017
A61K 47/10	(51) A61K 9/127	(33) United States of America
A61K 47/16	A61K 9/51	(51) A61K 9/16
A61K 47/42	A61K 9/00	A61K 31/18
A61K 9/14	A61K 31/436	A61P 35/00
A61K 9/16	A61P 37/06	(11) EP3644970
A61K 9/19	(11) EP3448364	(21) EP18737225.5
A61K 31/704	(21) EP17790646.8	(47) 09.02.2022
(11) EP3558262	(47) 09.02.2022	(87) EP2018067717
(21) EP17826244.0	(87) US2017030444	03.01.2019
(47) 09.02.2022	02.11.2017	(22) 29.06.2018
(87) EP2017084522	(22) 01.05.2017	(54) NEW ORAL FORMULATIONS OF BELINOSTAT
28.06.2018	(54) TARGETING THE INNATE IMMUNE SYSTEM TO INDUCE LONG-TERM TOLERANCE AND TO RESOLVE MACROPHAGE ACCUMULATION IN ATHEROSCLEROSIS	(73) ONXEO
(22) 22.12.2017	(73) Icahn School of Medicine at Mount Sinai	(72) BLOOM, Corey
(54) HSA GALENICS	(72) DUIVENVOORDEN, Raphael	YATES, Ian
(73) Frei, Eva	FAY, Francois	PIVETTE, Perrine
Schrenk, Hans-Hermann	BRAZA, Mounia	LEMARCHAND, Caroline
Denck, Michael	MULDER, Willem	(31) 201762527684 P
Denck, Petra	FAYAD, Zahi	17305853
(72) SCHRENK, Hans-Hermann	OCHANDO, Jordi	(32) 30.06.2017
(31) 102016125666	(31) 201662329676 P	03.07.2017
(32) 23.12.2016	(32) 29.04.2016	(33) United States of America
(33) Germany	(33) United States of America	European Patent Office (EPO)
(51) A61K 9/10	(51) A61K 9/14	(51) A61K 9/48
A61K 33/08	A61K 47/34	A61K 9/70
A61K 47/36	A61K 47/10	(11) EP3487486
A61K 47/38	A61K 31/165	(21) EP17754820.3
A61P 1/04	A61K 38/13	(47) 09.02.2022
(11) EP3610857	A61F 9/00	(87) NL2017050500
(21) EP18783778.6	A61L 27/54	25.01.2018
(47) 09.02.2022	(11) EP3518897	(22) 24.07.2017
(87) KR2018004305	(21) EP17857601.3	(54) LOW CROSS-LINKING GELATINE
18.10.2018	(47) 09.02.2022	(73) Rousselot B.V.
(22) 12.04.2018	(87) US2017054654	(72) VERWEE, Ellen Leona Gabriël
(54) SUSPENSION COMPRISING ALUMINUM HYDROXIDE AND MAGNESIUM HYDROXIDE AND PREPARATION METHOD THEREFOR	(73) Liaoning Daewoong Pharmaceutical Co., Ltd.	CAPDEPON, Claude Françoise
(73) Liaoning Daewoong Pharmaceutical Co., Ltd.	Daewoong Pharmaceutical Co., Ltd.	BARON, Catherine Emmanuelle Thérèse
(72) SEOL, Sang Ho	(22) 30.09.2017	THOMAS, Pierre-Albert Marie
		(31) 2017219
		(32) 22.07.2016

(33) Netherlands	(33) United States of America	(33) France
(51) A61K 9/72 A61K 9/08 A61K 47/69 A61K 31/352 A61P 11/00 A61P 11/14 (11) EP3777844 (21) EP19914205.0 (47) 09.02.2022 (87) CN2019102948 24.12.2020 (22) 28.08.2019 (54) METHOD FOR PREPARING SOLUTION FORMULATION FOR AEROSOL INHALATION OF NARINGENIN (73) Sun Yat-Sen University (72) YAO, Hongliang GUAN, Minyi SU, Weiwei (31) 201910541928 (32) 21.06.2019 (33) China	(51) A61K 31/166 A61K 39/00 A61K 31/4184 A61K 31/47 G01N 33/00 A61P 19/02 (11) EP3316878 (21) EP16739597.9 (47) 09.02.2022 (87) SE2016050673 12.01.2017 (22) 30.06.2016 (54) METHODS AND COMPOUNDS FOR THE ALLEVIATION OF PAIN (73) Svensson, Camilla Catrina, Anca Klareskog, Lars Malmström, Vivianne (72) Svensson, Camilla Malmström, Vivianne Catrina, Anca Klareskog, Lars (31) 201562206872 P 201562188499 P (32) 19.08.2015 03.07.2015 (33) United States of America United States of America	(51) A61K 31/4375 A61P 31/04 A61P 31/10 A61P 35/00 (11) EP3777856 (21) EP19784977.1 (47) 09.02.2022 (87) CN2019082701 17.10.2019 (22) 15.04.2019 (54) HYDROPHILIC BERBERINE-TYPE DERIVATIVE AND APPLICATION THEREOF IN PREPARING DRUG (73) INSTITUTE OF MATERIA MEDICA, CHINESE ACADEMY OF MEDICAL SCIENCES (72) SONG, Li LI, Xiang ZHANG, Haijing TANG, Xiaonan DENG, Anjun QIN, Hailin LI, Xiang WU, Lianqiu ZHANG, Zhihui LI, Zhihong SONG, Huachen (31) 201810328797 201810328741 201810328605 201810328743 201810328506 (32) 13.04.2018 13.04.2018 13.04.2018 13.04.2018 13.04.2018 (33) China China China China China
(51) A61K 31/05 A61P 29/00 A61P 11/00 A61K 31/13 A61K 31/196 A61K 31/215 A61K 31/4045 A61K 31/7012 A61K 31/7056 A61K 45/06 (11) EP3677258 (21) EP17923262.4 (47) 09.02.2022 (87) CN2017099956 07.03.2019 (22) 31.08.2017 (54) USES OF CANNABIDIOL IN PREPARATION OF DRUGS FOR RESISTING AGAINST INFLUENZA (73) Hanyi Bio-Technology Company Ltd. (72) ZHANG, Ke TAN, Xin LI, Xiangdong YU, Zhaohui	(51) A61K 31/167 A61P 25/28 A61P 25/02 A61P 25/00 A61P 25/16 A61P 9/14 A61P 11/00 A61P 3/10 C07C 235/42 C07C 235/58 (11) EP3752138 (21) EP19710047.2 (47) 09.02.2022 (87) FR2019050321 22.08.2019 (22) 13.02.2019 (54) COMPOUNDS AND COMPOSITIONS FOR THE TREATMENT OF NEURODEGENERATIVE AND INFLAMMATORY DISEASES (73) SORBONNE UNIVERSITE Institut du Cerveau et de la Moelle Epiniere Centre National de la Recherche Scientifique Assistance Publique Hôpitaux de Paris Ecole Nationale Supérieure de Chimie de Montpellier Institut National de la Santé et de la Recherche Médicale UNIVERSITE DE MONTPELLIER (72) DEBOUX, Cyrille NAIT OUMESMAR, Brahim MASURIER, Nicolas SOUALMIA, Feryel EL AMRI, Chahrazade AÏT AMIRI, Sabrina (31) 1851206 (32) 13.02.2018	(31) 201810328797 201810328741 201810328605 201810328743 201810328506 (32) 13.04.2018 13.04.2018 13.04.2018 13.04.2018 13.04.2018 (33) China China China China China (51) A61K 31/5415 A61P 25/28 C07D 279/18 (11) EP3121169 (21) EP16173815.8 (47) 09.02.2022 (22) 10.07.2007 (54) METHODS OF SYNTHESIS AND/OR PURIFICATION OF DIAMINOPHENOTHIAZINIUM COMPOUNDS (73) WisTa Laboratories Ltd. (72) WISCHIK, Claude Michel SINCLAIR, James Peter MARSHALL, Colin BADDELEY, Thomas Craven STOREY, John Mervyn David (31) 819627 P (32) 11.07.2006 (33) United States of America
(51) A61K 31/131 A61K 31/132 A61K 31/215 A61K 31/56 A61K 9/127 A61K 38/47 A61P 3/08 C12N 9/64 (11) EP3586861 (21) EP19172992.0 (47) 09.02.2022 (22) 08.06.2012 (54) LIPID NANOPARTICLE COMPOSITIONS AND METHODS FOR MRNA DELIVERY (73) Translate Bio, Inc. (72) HEARTLEIN, Michael DEROSA, Frank GUILD, Braydon Charles (31) 201161494881 P (32) 08.06.2011	(72) DEBOUX, Cyrille NAIT OUMESMAR, Brahim MASURIER, Nicolas SOUALMIA, Feryel EL AMRI, Chahrazade AÏT AMIRI, Sabrina (31) 1851206 (32) 13.02.2018	(51) A61K 31/565 A61K 31/55 A61K 31/57 A61K 31/585 A61P 5/30

(11) EP3781171	201710537958	UNITHIOL AND USE OF THE
(21) EP19722529.5	(32) 27.12.2017	COMPOSITION
(47) 09.02.2022	27.12.2017	(73) Medid Innovation Development Ltd
(87) EP2019060221	27.12.2017	(72) MATELO, Svetlana Konstantinovna
24.10.2019	04.07.2017	MANASHEROV, Tamaz Omarovich
(22) 19.04.2019	(33) China	AFINOGENOVA, Anna Gennadievna
(54) COMPOUNDS AND THEIR USES	China	AFINOGENOV, Gennady Evgenievich
FOR ALLEVIATING MENOPAUSE-	China	(31) 2017106061
ASSOCIATED SYMPTOMS	China	(32) 22.02.2017
(73) Estetra SRL	(51) A61K 31/7088	(33) Russian Federation
(72) MAWET, Marie	C07H 21/04	(51) A61K 35/28
TAZIAUX, Melanie	C12N 15/11	(11) EP2648740
RAUSIN, Glwadys	C12Q 1/68	(21) EP11811206.9
JOST, Maud	G01N 33/50	(47) 09.02.2022
(31) 19150421	(11) EP3481403	(87) US2011063592
18174985	(21) EP17824915.7	14.06.2012
18168234	(47) 09.02.2022	(22) 06.12.2011
(32) 04.01.2019	(87) US2017040963	(54) TRICALCIUM PHOSPHATE BINDING
30.05.2018	11.01.2018	PEPTIDES AND USES THEREOF
19.04.2018	(22) 06.07.2017	(73) Massachusetts Institute of Technology
(33) European Patent Office (EPO)	(54) SOLID TUMOR METHYLATION	The Government of The United States,
European Patent Office (EPO)	MARKERS AND USES THEREOF	as represented by The Secretary of The
European Patent Office (EPO)	(73) The Regents of the University of	Army
(51) A61K 31/7012	California	(72) GRIFFITH, Linda, G.
A61K 31/215	Youhealth Biotech, Limited	ALVAREZ, Luis
A61K 45/06	(72) ZHENG, Lianghong	STOCKDALE, Linda
A61K 31/425	ZHANG, Kang	RIVERA, Jaime
A61P 31/12	HOU, Rui	GUERRERO, Yadir
A61P 31/16	(31) 201662358795 P	(31) 419946 P
(11) EP2445349	(32) 06.07.2016	(32) 06.12.2010
(21) EP10792599.2	(33) United States of America	(33) United States of America
(47) 09.02.2022	(51) A61K 31/715	(51) A61K 38/01
(87) US2010039638	(11) EP3616703	A61K 9/00
29.12.2010	(21) EP19179558.2	A61K 9/06
(22) 23.06.2010	(47) 09.02.2022	A61K 47/42
(54) COMPOUNDS AND METHODS FOR	(22) 11.06.2019	A61K 9/70
TREATING INFLUENZA	(54) MOISTURIZING COMPOSITION OF A	A61K 31/047
(73) Romark Laboratories, L.C.	CONTACT LENS	A61K 31/185
(72) SEMPLE, J., Edward	(73) UNICON Optical Co., LTD.	A61K 31/235
ROSSIGNOL, Jean-Francois	(72) HSIAO, Hsu-Kuei	A61K 31/498
(31) 220891 P	LIN, Ji-Yu	A61K 31/734
(32) 26.06.2009	Yeh, Jin-Kun	A61K 33/20
(33) United States of America	(31) 107129941	A61K 33/38
(51) A61K 31/7048	(32) 28.08.2018	A61P 17/02
A61P 35/00	(33) Taiwan, Province of China	A61K 31/167
A61P 35/02	(51) A61K 31/79	A61K 45/06
A61K 45/06	A61K 31/047	A61K 31/10
(11) EP3639829	A61K 31/185	(11) EP3585422
(21) EP18827765.1	A61K 31/167	(21) EP17835517.8
(47) 09.02.2022	A61K 9/00	(47) 09.02.2022
(87) CN2018094504	A61K 9/06	(87) RU2017000906
10.01.2019	A61K 47/42	30.08.2018
(22) 04.07.2018	A61K 9/70	(22) 05.12.2017
(54) USE OF ISOVALERYLSPIRAMYCIN	A61K 31/235	(54) ANTISEPTIC COMPOSITION
I OR III IN PREPARATION OF DRUG	A61P 17/02	COMPRISING UNITHIOL AND
FOR TREATING AND/OR PREVENTING	A61K 45/06	DIMETHYLSULFOXIDE, USE OF THE
TUMOUR, AND DRUG	A61K 31/14	COMPOSITION AND METHOD OF
(73) Shenyang Fuyang Pharmaceutical	A61K 31/517	WOUND TREATMENT WITH ITS USE
Technology Co., Ltd.	A61K 31/10	(73) Medid Innovation Development Ltd
(72) JIANG, Xulein	(11) EP3585399	(72) AFINOGENOVA, Anna Gennadievna
DAI, Jianlu	(21) EP17836069.9	MANASHEROV, Tamaz Omarovich
ZHAO, Xiaofeng	(47) 09.02.2022	MATELO, Svetlana Konstantinovna
JIANG, Enhong	(87) RU2017000905	AFINOGENOV, Gennady Evgenievich
HE, Weinqing	30.08.2018	(31) 2017106062
JIANG, Yang	(22) 14.12.2017	(32) 22.02.2017
(31) 201711450396	(54) ANTISEPTIC COMPOSITION	(33) Russian Federation
201711450300	COMPRISING	(51) A61K 38/19
201711497546	POLYVINYLPIRROLIDONE AND	A61P 25/16

(11) EP3475445	C12N 9/10	PELED KAMAR, Mira
(21) EP17731824.3	A61P 9/04	ALISHEKEVITZ, Dror Shmuel
(47) 09.02.2022	(11) EP3597213	SINIK, Keren
(87) EP2017063554	(21) EP19174484.6	SHPERBER (SERY), Yael
28.12.2017	(47) 09.02.2022	(31) 2014935
(22) 02.06.2017	(22) 17.02.2014	201562172264 P
(54) MEANS AND METHODS FOR	(54) PARTIAL HDAC4 FRAGMENTS	(32) 08.06.2015
TREATING PARKINSON'S DISEASE	AND VARIANTS AS THERAPEUTIC	08.06.2015
(73) Université du Luxembourg	APPROACH FOR THE TREATMENT OF	(33) Netherlands
(72) OBERMAIER, Carolin	CARDIOVASCULAR DISEASES	United States of America
KRUEGER, Rejko	(73) Ruprecht-Karls-Universität Heidelberg	(51) A61K 39/12
BOUSSAAD, Ibrahim	(72) LEHMANN, Lorenz	A61K 39/155
(31) 93116	MÜLLER, Oliver	C07K 19/00
(32) 22.06.2016	JEBESSA, Zegeye	A61P 31/14
(33) Luxembourg	KATUS, Hugo	A61P 11/00
(51) A61K 38/37	BACKS, Johannes	(11) EP3383428
C07K 14/755	(31) 201361765440 P	(21) EP16920055.7
A61P 7/04	(32) 15.02.2013	(47) 09.02.2022
G01N 33/569	(33) United States of America	(87) CN2016104026
G01N 33/50	(51) A61K 38/50	03.05.2018
(11) EP3260132	A61K 39/00	(22) 31.10.2016
(21) EP17167928.5	C07K 16/28	(54) RESPIRATORY SYNCYTIAL VIRUS
(47) 09.02.2022	C12N 9/78	VACCINE
(22) 27.10.2011	A61P 35/00	(73) Wuhan Sanli Biotechnology Co., Ltd.
(54) FVIII PEPTIDES FOR IMMUNE	(11) EP3496743	(72) ZHAO, Bali
TOLERANCE INDUCTION AND	(21) EP17840420.8	YAN, Huimin
IMMUNODIAGNOSTICS	(47) 09.02.2022	YANG, Jingyi
(73) Takeda Pharmaceutical Company	(87) US2017050816	(51) A61K 39/395
Limited	15.02.2018	A61K 47/26
(72) Ehrlich, Hartmut	(22) 08.09.2017	A61K 9/08
Steinitz, Katharina Nora	(54) COMPOSITIONS AND METHODS	C07K 16/22
Wilhelmina van Helden, Paula Maria	FOR TREATING CANCER WITH	C07K 16/28
Reipert, Birgit Maria	ARGININE DEPLETION AND IMMUNO	(11) EP3744345
Schwarz, Hans-Peter	ONCOLOGY AGENTS	(21) EP20181968.7
(31) 201161502476 P	(73) AERase, Inc.	(47) 09.02.2022
201161467894 P	(72) ROWLINSON, Scott, W.	(22) 13.03.2014
407402 P	LOWE, David	(54) ANTIBODY FORMULATIONS
(32) 29.06.2011	ALTERS, Susan	(73) F. Hoffmann-La Roche AG
25.03.2011	AGNELLO, Giulia	(72) PATAPOFF, Thomas
27.10.2010	(31) 201762524286 P	GOKARN, Yatin
(33) United States of America	201662372092 P	ZARRAGA, Isidro, E.
United States of America	(32) 23.06.2017	ZARZAR, Jonathan
United States of America	08.08.2016	WURTH, Christine
(51) A61K 38/43	(33) United States of America	(31) 201361780899 P
A61K 47/32	United States of America	(32) 13.03.2013
A61P 17/00	(51) A61K 39/00	(33) United States of America
A61K 9/06	A61P 35/00	(51) A61K 39/395
A61K 38/48	C07K 16/28	C07K 16/24
A61K 47/10	C07K 16/30	(11) EP3326649
(11) EP2144625	C07K 16/40	(21) EP17208896.5
(21) EP07865205.4	(11) EP3302538	(47) 09.02.2022
(47) 09.02.2022	(21) EP16739266.1	(22) 25.04.2013
(87) US2007086455	(47) 09.02.2022	(54) ANTI-IL-23P19 ANTIBODIES
12.06.2008	(87) IL2016050600	(73) Boehringer Ingelheim International
(22) 05.12.2007	15.12.2016	GmbH
(54) A CONTROLLED RELEASE	(22) 08.06.2016	(72) Schultz-Fademrecht, Torsten
ENZYMATIC COMPOSITION AND	(54) AFFINITY ENTITIES COMPRISING	Wang, Elaine Ee-Ling
METHODS OF USE	A TCR-LIKE ANTIBODY BINDING	Garidel, Patrick
(73) Marizyme, Inc.	DOMAIN WITH HIGH AFFINITY AND	Loging, William Troy
(72) HELLGREN, Kristian	FINE SPECIFICITY AND USES OF	Padula, Steven John
VINCENT, Jan	SAME	Galler, Annette Bettina
DOLAK, Terence M.	(73) Adicet Bio Inc.	Nabozny, Gerald Henry
RUTMAN, Max	(72) TBOUL (ELBAZ), Yael	(31) 201261642032 P
(31) 868656 P	EREL SEGAL, Reut	(32) 03.05.2012
(32) 05.12.2006	DENKBERG, Galit	(33) United States of America
(33) United States of America	BEER, Ilan	(51) A61K 39/395
(51) A61K 38/45	OREN, Ravit	C07K 16/28
A61K 38/48	REITER, Yoram	(11) EP2744515

(21) EP12747923.6	COLOGNATO, Renato	(54) SUBSTANCE CONTAINING GOLD
(47) 09.02.2022	PIGOLI, Giuseppe	CLUSTER AND PREPARATION
(87) EP2012065906	(31) UB20151383	METHOD AND USE THEREOF
21.02.2013	(32) 15.06.2015	(73) Shenzhen Profound-View Pharma Tech
(22) 14.08.2012	(33) Italy	Co., Ltd.
(54) COMBINATION THERAPY WITH	(51) A61K 47/32	(72) SUN, Taolei
AN ANTI-CD19 ANTIBODY AND A	A61K 9/14	(31) 201610635912
NITROGEN MUSTARD	A61K 31/557	(32) 05.08.2016
(73) MorphoSys AG	A61K 9/10	(33) China
(72) WINDERLICH, Mark	A61P 9/12	<hr/>
STEIDL, Stefan	(11) EP3164155	(51) A61K 47/59
KROHN, Susanne	(21) EP15731463.4	A61K 47/34
ROJKJAER, Lisa	(47) 09.02.2022	A61K 31/203
AMERSDORFER, Jutta	(87) US2015035595	A61P 27/02
(31) 201261654097 P	17.12.2015	A61K 9/00
201261647539 P	(22) 12.06.2015	(11) EP3496760
201161523861 P	(54) TREPASTINIL FORMULATIONS	(21) EP17761307.2
11177658	(73) United Therapeutics Corporation	(47) 09.02.2022
(32) 01.06.2012	(72) PHARES, Ken	(87) GB2017052356
16.05.2012	CHANG, Courtney	15.02.2018
16.08.2011	(31) 201462011689 P	(22) 09.08.2017
16.08.2011	(32) 13.06.2014	(54) OPHTHALMIC COMPOSITIONS
(33) United States of America	(33) United States of America	(73) The University of Liverpool
United States of America	<hr/>	(72) CAULDBECK, Helen
United States of America	(51) A61K 47/36	RANNARD, Steve
European Patent Office (EPO)	A61K 31/718	LE HELLYE, Maude
<hr/>	A61K 9/08	KEARNS, Victoria
(51) A61K 39/395	A61K 31/185	WILLIAMS, Rachel
C07K 16/28	A61K 31/205	(31) 201613696
A61P 35/00	A61K 36/47	(32) 09.08.2016
(11) EP3442578	A61K 45/06	(33) United Kingdom
(21) EP17783254.0	A61P 7/08	<hr/>
(47) 09.02.2022	A61P 13/12	(51) A61L 27/22
(87) US2017027662	(11) EP3373975	A61L 27/52
19.10.2017	(21) EP16795232.4	A61L 27/54
(22) 14.04.2017	(47) 09.02.2022	A61L 27/56
(54) METHODS FOR DETERMINING AND	(87) EP2016001898	(11) EP3490624
ACHIEVING THERAPEUTICALLY	18.05.2017	(21) EP17762214.9
EFFECTIVE DOSES OF ANTI-CD47	(22) 14.11.2016	(47) 09.02.2022
AGENTS IN TREATMENT OF CANCER	(54) DIALYSIS SOLUTION HAVING AT	(87) IB2017054708
(73) The Board of Trustees of the Leland	LEAST ONE OSMOTIC AGENT	08.02.2018
Stanford Junior University	(73) Friedrich-Schiller-Universität Jena	(22) 01.08.2017
(72) VOLKMER, Jens-Peter	Fresenius Medical Care Deutschland	(54) NERVE GUIDANCE CONDUITS,
MAJETI, Ravindra	GmbH	METHODS OF PRODUCTION AND
LIU, Jie	(72) BURKHART, Jens, Lothar	USES THEREOF
CHAO, Mark P.	HAMPE, Robert	(73) Association for the Advancement of
WEISSMAN, Irving L.	FINKLER, Lisa	Tissue Engineering and Cell based
(31) 201662427679 P	BERLICH, Robert	Technologies & Therapies (A4TEC) -
201662323330 P	HEINZE, Thomas	Associação
(32) 29.11.2016	(31) 102015014699	(72) BEBIANO E COSTA, João Pedro
15.04.2016	(32) 13.11.2015	RODRIGUES DE CARVALHO, Cristiana
(33) United States of America	(33) Germany	ANTUNES DE OLIVEIRA, Joaquim
United States of America	<hr/>	Miguel
<hr/>	(51) A61K 47/54	DA SILVA CORREIA DE OLIVEIRA,
(51) A61K 45/06	A61K 47/62	Joana Catarina
A61K 36/9066	A61K 47/69	PINTO RIBEIRO, Viviana
A23L 33/00	A61P 25/16	GONÇALVES DOS REIS, Rui Luís
(11) EP3307324	A61P 25/28	(31) 2016109562
(21) EP16739569.8	B22F 1/00	(32) 01.08.2016
(47) 09.02.2022	B22F 9/24	(33) Portugal
(87) IB2016053533	C22C 5/02	<hr/>
22.12.2016	A61K 33/242	(51) A61M 1/00
(22) 15.06.2016	(11) EP3449945	(11) EP3124062
(54) FOOD SUPPLEMENT FOR USE	(21) EP17836293.5	(21) EP16189729.3
IN A PROCESS OF METABOLIC	(47) 09.02.2022	(47) 09.02.2022
REBALANCING	(87) CN2017093671	(22) 20.11.2012
(73) Innovitas Vitae S.r.l.	08.02.2018	(54) REDUCED-PRESSURE SYSTEMS
(72) MANGANINI, Massimiliano	(22) 20.07.2017	FOR SIMULTANEOUSLY TREATING A
MARIOTTI, Massimo		PLURALITY OF TISSUE SITES
SCOZZESI, Alesandro		(73) 3M Innovative Properties Company
		(72) KAZALA, Richard Marvin

LOCKE, Christopher Brian	(32) 03.02.2016	(73) Fresenius Vial SAS
COULTHARD, Richard Daniel John	(33) United States of America	(72) AMON, Barbara
ROBINSON, Timothy Mark	(51) A61M 1/00	BECKER, Michael
LUCKEMEYER, James, A.	C12M 1/02	(31) 15290067
PRATT, Benjamin A.	B01L 3/00	(32) 13.03.2015
(31) 201161563284 P	C12N 5/077	(33) European Patent Office (EPO)
(32) 23.11.2011	C12N 5/0775	(51) A61M 5/20
(33) United States of America	C12M 1/33	A61M 5/32
(51) A61M 1/00	(11) EP3307341	(11) EP3484548
(11) EP3669903	(21) EP16735716.9	(21) EP17739897.1
(21) EP20154452.5	(47) 09.02.2022	(47) 09.02.2022
(47) 09.02.2022	(87) IL2016050609	(87) EP2017065820
(22) 20.12.2016	15.12.2016	18.01.2018
(54) WASTE COLLECTION UNIT	(22) 09.06.2016	(22) 27.06.2017
(73) Stryker Corporation	(54) MECHANICAL APPARATUS AND	(54) ADMINISTRATION MECHANISM FOR A
(72) ZOLLINGER, Michael	METHOD FOR ISOLATING STROMAL	MEDICAMENT DELIVERY DEVICE
EDINGER, Benjamin	VASCULAR FRACTION	(73) SHL Medical AG
MACLACHLAN, Brian	(73) The Medical Research, Infrastructure,	(72) HOLMQVIST, Anders
DURNELL, Troy	And Health Services Fund Of The Tel	(31) 16179476
ISHAM, Steve	Aviv Medical Center	(32) 14.07.2016
DAVIE, Daniel	(72) ARONOVICH, Anna	(33) European Patent Office (EPO)
(31) 201562387394 P	SOLODEEV, Inna	(51) A61M 15/00
(32) 24.12.2015	SHANI, Nir	(11) EP3725350
(33) United States of America	GUR, Eyal	(21) EP20172454.9
(51) A61M 1/00	(31) 201562173542 P	(47) 09.02.2022
A61M 1/02	(32) 10.06.2015	(22) 05.12.2017
A61M 1/36	(33) United States of America	(54) INHALATION DEVICE WITH
(11) EP2654824	(51) A61M 1/14	INTEGRATED ELECTRONICS MODULE
(21) EP11850638.5	(11) EP3639867	(73) Norton (Waterford) Limited
(47) 09.02.2022	(21) EP18816897.5	(72) MOORHOUSE, Dylan A.
(87) CA2011000948	(47) 09.02.2022	YANG, Dong
28.06.2012	(87) JP2018022702	(31) 201662430576 P
(22) 24.08.2011	20.12.2018	(32) 06.12.2016
(54) INTRA OPERATIVE BLOOD	(22) 14.06.2018	(33) United States of America
RECOVERY SYSTEM	(54) BLOOD PURIFICATION SYSTEM	(51) A61M 16/06
(73) Matsuura, David G.	(73) Nikkiso Company Limited	(11) EP3313489
Krensky, Robert	(72) TOYODA, Masahiro	(21) EP16736338.1
Simpson, Philip J.	AOTA, Naoyuki	(47) 09.02.2022
(72) Simpson, Philip J.	HAGIWARA, Yasunobu	(87) US2016039117
Matsuura, David G.	(31) 2017116953	29.12.2016
Krensky, Robert	(32) 14.06.2017	(22) 23.06.2016
(31) 201161448963 P	(33) Japan	(54) POSITIVE PRESSURE MASK
2011614444501 P	(51) A61M 1/38	AND RELATED ADAPTERS AND
201061426965 P	A61M 1/36	APPLICANCES
(32) 03.03.2011	A61M 1/26	(73) ReddyPort, Inc.
18.02.2011	A61M 1/34	(72) NIEMAN, Timothy, R.
23.12.2010	(11) EP3791904	ROSENHAN, Branden, R.
(33) United States of America	(21) EP20195921.0	HANSEN, Andrew, S.
United States of America	(47) 09.02.2022	SPENDLOVE, Jared
United States of America	(22) 14.09.2020	ORR, Joseph
(51) A61M 1/00	(54) DYNAMIC ADJUSTMENT OF	REDDY, Chakravarthy, B.
A61M 3/02	ALGORITHMS FOR SEPARATION	(31) 201562252577 P
A61M 25/02	AND COLLECTION OF BLOOD	201562183733 P
A61M 25/00	COMPONENTS	(32) 08.11.2015
A61B 1/015	(73) Fenwal, Inc.	23.06.2015
A61B 17/24	(72) CASE, Brian C.	(33) United States of America
(11) EP3411089	(31) 201962900957 P	United States of America
(21) EP16889624.9	(32) 16.09.2019	(51) A61M 16/06
(47) 09.02.2022	(33) United States of America	(11) EP3639878
(87) US2016029639	(51) A61M 5/14	(21) EP19197671.1
10.08.2017	A61M 5/142	(47) 09.02.2022
(22) 28.04.2016	(11) EP3268064	(22) 12.05.2009
(54) SUCTION AND IRRIGATION DEVICE	(21) EP16707141.4	(54) PATIENT INTERFACE
(73) Entellus Medical, Inc.	(47) 09.02.2022	(73) Fisher & Paykel Healthcare Limited
(72) FORSBERG, Andrew T.	(87) EP2016054346	(72) SALMON, Andrew, Paul, Maxwell
HANSON, Anthony J.	22.09.2016	GRADON, Lewis, George
DRONTLE, John R.	(22) 02.03.2016	SIEW, Silas, Sao, Jin
(31) 201662290882 P	(54) INFUSION DEVICE	(31) 52362 P

(32) 12.05.2008	(11) EP3436123	(31) 201562212775 P
(33) United States of America	(21) EP16724694.1	(32) 01.09.2015
(51) A61M 16/20	(47) 09.02.2022	(33) United States of America
B01L 3/00	(87) IB2016000491	(51) A61N 7/02
F16K 99/00	05.10.2017	A61B 17/22
A61M 11/00	(22) 30.03.2016	A61N 7/00
F04B 19/00	(54) RAPID EXCHANGE DILATOR FOR	(11) EP3386589
A61M 39/24	SHEATHLESS CATHETERIZATION	(21) EP16810307.5
(11) EP3512587	(73) Cardinal Health Switzerland 515 GmbH	(47) 09.02.2022
(21) EP17778198.6	(72) MESSENGER, Andrew	(87) EP2016080127
(47) 09.02.2022	(51) A61M 60/161	15.06.2017
(87) EP2017073147	A61M 60/289	(22) 07.12.2016
22.03.2018	A61M 60/486	(54) INTERLEAVED BEAM PATTERN FOR
(22) 14.09.2017	A61F 2/00	SONOTHROMBOLYSIS AND OTHER
(54) DEVICE FOR ADMINISTERING A	H01L 41/053	VASCULAR ACOUSTIC RESONATOR
LIQUID MEDICAMENT	H01L 41/193	MEDIATED THERAPIES
(73) Softhale NV	(11) EP3716899	(73) Bracco Suisse SA
(72) BARTELS, Frank	(21) EP18821740.0	Koninklijke Philips N.V.
RAWERT, Jürgen	(47) 09.02.2022	(72) SEIP, Ralf
(31) 102016117396	(87) IB2018059267	BOHREN, Yannick
(32) 15.09.2016	31.05.2019	GAUD, Emmanuel, Jean-Marie
(33) Germany	(22) 23.11.2018	POWERS, Jeffrey, Earl
(51) A61M 25/01	(54) SPRING WITH A PLURALITY OF	SHI, William, Tao
(11) EP3603724	ELEMENTS, AND ACTUATOR	DIANIS, Scott, William
(21) EP19197849.3	INCLUDING SUCH A SPRING	HYVELIN, Jean-Marc, Paul, Robert
(47) 09.02.2022	(73) Ecole Polytechnique Federale de	(31) 201562265154 P
(22) 02.08.2011	Lausanne (EPFL)	16155298
(54) CATHETER ELECTRODE ASSEMBLIES	(72) CIVET, Yoan	(32) 09.12.2015
(73) St. Jude Medical, Atrial Fibrillation	PERRIARD, Yves	11.02.2016
Division, Inc.	CHAVANNE, Jonathan	(33) United States of America
(72) HALL, Sacha C.	(31) 14402017	European Patent Office (EPO)
JOHNSON, Theodore A.	(32) 27.11.2017	(51) A61P 7/06
TEGG, Troy T.	(33) Switzerland	A61K 45/06
JUST, Dale E.	(51) A61N 1/05	A61K 9/20
(31) 95899210	A61B 5/0215	A61K 9/48
(32) 02.12.2010	A61B 5/24	A61K 31/519
(33) United States of America	(11) EP2934309	A61P 3/00
(51) A61M 27/00	(21) EP13864706.0	A61P 3/02
A61M 1/00	(47) 09.02.2022	A61P 25/16
(11) EP3407956	(87) US2013075384	A61P 9/00
(21) EP17760948.4	26.06.2014	A61P 9/10
(47) 09.02.2022	(22) 16.12.2013	A61P 25/00
(87) US2017020791	(54) PRESSURE-SENSING	A61P 25/18
08.09.2017	INTRAVASCULAR DEVICE	A61P 25/24
(22) 03.03.2017	(73) Philips Image Guided Therapy	A61P 25/28
(54) DEVICES AND METHODS FOR	Corporation	A61P 43/00
MANAGING CHEST DRAINAGE	(72) CORL, Paul Douglas	A61K 9/16
(73) Esculon, LLC	MILLETT, Bret C.	(11) EP3461503
(72) PRESTON, Randy	BURKETT, David H.	(21) EP18205446.0
COUGHLIN, Ryan	(31) 201261745493 P	(47) 09.02.2022
LUXON, Evan S.	(32) 21.12.2012	(22) 11.04.2008
BURNETT, Daniel R.	(33) United States of America	(54) METHODS OF ADMINISTERING
ZIEGLER, Mark	(51) A61N 1/05	TETRAHYDROBIOPTERIN,
WALLIN, Derek	G06T 7/00	ASSOCIATED COMPOSITIONS, AND
(31) 201762448546 P	A61B 6/12	METHODS OF MEASURING
201662365770 P	A61B 90/00	(73) BioMarin Pharmaceutical Inc.
201662328560 P	G06T 7/73	(72) Oppenheimer, Daniel I.
201662303361 P	A61B 6/03	Okhamafe, Augustus
(32) 20.01.2017	(11) EP3297719	Kostel, Paul John
22.07.2016	(21) EP16766147.9	Castillo, Sianna
27.04.2016	(47) 09.02.2022	Dorenbaum, Alejandro
03.03.2016	(87) US2016049565	Foehr, Erik
(33) United States of America	09.03.2017	(31) 1975308 P
United States of America	(22) 31.08.2016	92282107 P
United States of America	(54) DETECTION OF LEAD ORIENTATION	(32) 08.01.2008
United States of America	(73) Boston Scientific Neuromodulation	11.04.2007
(51) A61M 29/00	Corporation	(33) United States of America
A61M 25/01	(72) BOKIL, Hemant	United States of America

(51) A61P 31/04 C12M 1/34 C12Q 1/02 C12Q 1/04 C12Q 1/06 C12Q 1/6806	(11) EP3532173 (21) EP17755467.2 (47) 09.02.2022 (87) EP2017070623 03.05.2018 (22) 14.08.2017 (54) BREATHING AID (73) Werz Innovations GmbH (72) WERZ, Matthias (31) 102016120441 (32) 26.10.2016 (33) Germany	MEYER, Stephen, J. RINGER, Yoram (31) 201715648861 (32) 13.07.2017 (33) United States of America
(11) EP3551293 (21) EP17880407.6 (47) 09.02.2022 (87) US2017064774 21.06.2018 (22) 05.12.2017 (54) RNASE FOR IMPROVED MICROBIAL DETECTION AND ANTIMICROBIAL SUSCEPTIBILITY TESTING (73) MicrobeDx, Inc. The Regents of the University of California (72) CHURCHILL, Bernard M. HAAKE, David, A. MONTI, Gabriel K. GUSSIN, Daniel HALFORD, Colin W.	(51) A62C 19/00 A62C 5/00 A62C 13/22 (11) EP2762203 (21) EP12835013.9 (47) 09.02.2022 (87) CN2012080226 04.04.2013 (22) 16.08.2012 (54) PORTABLE FIRE EXTINGUISHING DEVICE (73) Xi'an Westpeace Fire Technology Co., Ltd (72) QIANG, Jian LEI, Zhengjun (31) 201120377486 U (32) 28.09.2011 (33) China	(51) A62C 35/68 F16K 7/12 (11) EP3177369 (21) EP15751203.9 (47) 09.02.2022 (87) US2015043488 11.02.2016 (22) 03.08.2015 (54) FLUID CONTROL ASSEMBLIES FOR SPRINKLER SYSTEMS (73) Tyco Fire Products LP (72) WILLIAMS, James O. WILKINS, Roger S. (31) 201462032896 P (32) 04.08.2014 (33) United States of America
(31) 201662430785 P (32) 06.12.2016 (33) United States of America	(51) A63B 21/055 A63B 21/00 A63B 21/002 A63B 21/04 A63B 22/00 A63B 23/035 A63B 23/12 A61F 5/02 A63B 71/00 A63B 71/06 A61F 5/058 A63B 69/20 (11) EP3703829 (21) EP18876103.5 (47) 09.02.2022 (87) US2018059956 16.05.2019 (22) 09.11.2018 (54) AN UPPER BODY HARNESS WITH ELASTIC BANDS FOR RESISTANCE EXERCISES (73) Global Industry Products, Corp. (72) RANKIN, James Terrell (31) 201816184872 201762707576 P (32) 08.11.2018 09.11.2017 (33) United States of America United States of America	(51) A63B 21/055 A63B 21/00 A63B 21/002 A63B 21/04 A63B 22/00 A63B 23/035 A63B 23/12 A61F 5/02 A63B 71/00 A63B 71/06 A61F 5/058 A63B 69/20 (11) EP3703829 (21) EP18876103.5 (47) 09.02.2022 (87) US2018059956 16.05.2019 (22) 09.11.2018 (54) AN UPPER BODY HARNESS WITH ELASTIC BANDS FOR RESISTANCE EXERCISES (73) Global Industry Products, Corp. (72) RANKIN, James Terrell (31) 201816184872 201762707576 P (32) 08.11.2018 09.11.2017 (33) United States of America United States of America
(51) A61P 35/02 C07K 16/28 A61K 47/68 A61K 51/10 C07K 16/00 A61P 35/00 A61P 35/04 A61P 37/02 A61P 37/06 A61P 37/08 A61P 1/02 A61P 3/00 A61P 5/00 A61P 7/00 A61P 9/00 A61P 11/00 A61P 13/02 A61P 15/00 A61P 17/00 A61P 19/00 (11) EP2666787 (21) EP13181032.7 (47) 09.02.2022 (22) 30.05.2008 (54) STABLE IgG4 ANTIBODIES (73) Genmab A/S (72) Aalberse, Rob Parren, Paul Schuurman, Janine Vink, Tom van der Neut Kolfshoten, Marijn van de Winkel, Jan	(51) A62C 35/13 A62C 37/40 B65G 1/04 A62C 3/00 A62C 27/00 (11) EP3423164 (21) EP17709612.0 (47) 09.02.2022 (87) EP2017054670 08.09.2017 (22) 28.02.2017 (54) ROBOTIC FIRE EXTINGUISHING DEVICE AND HANDLING METHOD (73) Ocado Innovation Limited (72) WHELAN, Matthew KAROLINCZAK, Pawel INGRAM-TEDD, Andrew, John CLARKE, Paul (31) 201603518 (32) 29.02.2016 (33) United Kingdom	(51) A63B 21/055 A63B 67/19 A63B 102/04 (11) EP3456392 (21) EP17795979.8 (47) 09.02.2022 (87) JP2017016698 16.11.2017 (22) 27.04.2017 (54) SYNTHETIC SHUTTLECOCK FEATHER AND SHUTTLECOCK (73) Yonex Kabushiki Kaisha (72) SAKAGUCHI, Takumi CHIBA, Shinichiro (31) 2016093663 (32) 09.05.2016 (33) Japan
(31) 200701002 200700793 200700792 (32) 06.07.2007 31.05.2007 31.05.2007 (33) Denmark Denmark Denmark	(51) A62C 35/62 A62C 37/42 A62C 37/48 F16K 31/46 (11) EP3651866 (21) EP18832962.7 (47) 09.02.2022 (87) US2018041968 17.01.2019 (22) 13.07.2018 (54) PREACTION SPRINKLER VALVE ASSEMBLIES, RELATED DRY SPRINKLER DEVICES ADAPTED FOR LONG TRAVEL, AND FIRE PROTECTION SPRINKLER SYSTEMS (73) Victaulic Company (72) ARCHIBALD, Thomas Edwin	(51) A63B 67/187 A63B 67/19 A63B 102/04 (11) EP3456392 (21) EP17795979.8 (47) 09.02.2022 (87) JP2017016698 16.11.2017 (22) 27.04.2017 (54) SYNTHETIC SHUTTLECOCK FEATHER AND SHUTTLECOCK (73) Yonex Kabushiki Kaisha (72) SAKAGUCHI, Takumi CHIBA, Shinichiro (31) 2016093663 (32) 09.05.2016 (33) Japan
(51) A62B 33/00	(51) A63F 13/56	(51) A63F 13/56

A63F 13/57	(47) 09.02.2022	(11) EP3563094
A63F 13/67	(87) US2016059400	(21) EP17823094.2
A63F 13/803	04.05.2017	(47) 09.02.2022
G06N 3/12	(22) 28.10.2016	(87) EP2017083425
(11) EP3777984	(54) THERMALLY BONDED MULTI-LAYER	05.07.2018
(21) EP19774957.5	FELT FILTRATION MEDIA	(22) 19.12.2017
(47) 09.02.2022	(73) Parker-Hannifin Corporation	(54) DEVICE FOR GAS FLOW
(87) CN2019078834	(72) KEETON, Johnny Glen	PRODUCTION AND TREATMENT
03.10.2019	BURNS, David Jack	THROUGH A LIQUID VOLUME
(22) 20.03.2019	DYE, Andrew Ray	(73) Starklab
(54) METHOD, DEVICE, AND APPARATUS	(31) 201615336326	(72) ZEMMOURI, M. Jaouad
FOR CONFIGURING AI PARAMETER	201562248065 P	(31) 1663416
OF RACING AI MODEL, AND STORAGE	(32) 27.10.2016	(32) 27.12.2016
MEDIUM	29.10.2015	(33) France
(73) TENCENT TECHNOLOGY	(33) United States of America	(51) B01D 53/72
(SHENZHEN) COMPANY LIMITED	United States of America	C04B 28/14
(72) LAI, Guixiong	(51) B01D 46/00	C04B 14/04
(31) 201810299375	B01D 46/52	(11) EP3718984
(32) 30.03.2018	B01D 50/00	(21) EP17934727.3
(33) China	(11) EP3389821	(47) 09.02.2022
(51) A63G 9/00	(21) EP16823423.5	(87) CN2017118218
(11) EP3247476	(47) 09.02.2022	20.06.2019
(21) EP15828892.8	(87) US2016067329	(22) 25.12.2017
(47) 09.02.2022	22.06.2017	(54) GYPSUM BOARD FOR CLEANING
(87) TR2015050177	(22) 16.12.2016	FORMALDEHYDE AND PREPARATION
28.07.2016	(54) FILTER CARTRIDGES AND AIR	METHOD THEREFOR
(22) 16.11.2015	CLEANER ASSEMBLIES	(73) Beijing New Building Materials Public
(54) BASKET SWING COMPRISING A SEAT	(73) Donaldson Company, Inc.	Limited Company
SECTION HAVING A DOUBLE/SINGLE	(72) DECOSTER, Kristof	(72) CHEN, Hongxia
WALLED IMPACT SURFACE	SUN, Rui	ZHOU, Jianzhong
(73) Cemer Kent Ekipmanlari Sanayi Ve	CRAESSAERTS, Johnny	RAN, Xiuyun
Ticaret Anonim Sirketi	DEWIT, Johan G.	WU, Fade
(72) EROGLU, Fuat	MOERS, Anthonius Jan-Baptist Maria	LI, Fan
(31) 201500636	BILLIAU, Tim	WANG, Xia
(32) 20.01.2015	SAVSTROM, Jacob C.	(31) 201711346461
(33) Turkey	CATOOR, Bart	(32) 15.12.2017
(51) A63J 1/02	(31) 201662316713 P	(33) China
B66D 1/26	201562269761 P	(51) B01D 63/02
(11) EP3572136	(32) 01.04.2016	B01D 61/24
(21) EP19163319.7	18.12.2015	(11) EP3620228
(47) 09.02.2022	(33) United States of America	(21) EP18192571.0
(22) 19.12.2013	United States of America	(47) 09.02.2022
(54) COMPACT HOIST SYSTEM	(51) B01D 46/00	(22) 04.09.2018
(73) Avista Designs LLC	F24F 13/28	(54) PROCESS FOR MAKING A FILTRATION
(72) HOFFEND, Donald, Aloysius, Jr.,	(11) EP3685903	AND/OR DIFFUSION DEVICE
HOFFEND, Donald, Aloysius, III,	(21) EP19798514.6	(73) Gambro Lundia AB
(31) 201213725831	(47) 09.02.2022	(72) Hirssig, Christian
(32) 21.12.2012	(87) CN2019113330	Baumeister, Franz
(33) United States of America	04.06.2020	Beyer, Tobias
(51) B01D 33/23	(22) 25.10.2019	(51) B01D 65/00
D21D 5/04	(54) FILTER SCREEN CLEANING MODULE	B01D 63/10
(11) EP3773978	AND AIR TREATMENT DEVICE	B01D 61/10
(21) EP18825895.8	(73) GD Midea Air-Conditioning Equipment	(11) EP2750785
(47) 09.02.2022	Co., Ltd.	(21) EP12827495.8
(87) EP2018083961	Midea Group Co., Ltd.	(47) 09.02.2022
17.10.2019	(72) PENG, Jieli	(87) US2012053485
(22) 07.12.2018	LIU, Qiwei	07.03.2013
(54) FILTER SECTOR OF A DISC FILTER	(31) 201822009139 U	(22) 31.08.2012
(73) Voith Patent GmbH	(32) 30.11.2018	(54) MEMBRANE SEPARATION DEVICE
(72) NUSSBAUMER, Markus	(33) China	WITH SEAL PLATE
GOMMEL, Axel	(51) B01D 51/10	(73) NanoH2O Inc.
(31) 102018108799	B01D 53/18	(72) LESAN, Frederick K.
(32) 13.04.2018	F24F 6/00	KORDANI, Nicholas
(33) Germany	F24F 3/00	(31) 201161530609 P
(51) B01D 39/16	F24F 3/14	(32) 02.09.2011
D04H 13/00	F24F 5/00	(33) United States of America
(11) EP3368185	F24F 8/10	(51) B01D 65/08
(21) EP16860915.4	B01J 10/00	B06B 1/06

B01D 29/72	(21) EP16777711.9	MATSUEDA, Satoshi
(11) EP3454977	(47) 09.02.2022	HIRAI, Akimasa
(21) EP16728731.7	(87) FR2016052135	HOSHINO, Sho
(47) 09.02.2022	09.03.2017	(31) 2013258649
(87) IB2016052766	(22) 29.08.2016	(32) 13.12.2013
16.11.2017	(54) METHOD AND DEVICE FOR	(33) Japan
(22) 13.05.2016	CONTINUOUSLY TREATING A	(51) B01J 37/03
(54) A VIBRATION SYSTEM AND A	MIXTURE	B01J 37/08
FILTERING PLATE FOR FILTERING	(73) Genialis	B01J 37/18
SUBSTANCES	(72) GATEAUX, Justine	B01J 21/06
(73) Acondicionamiento Tarrasense	GILLET, Guillaume	B01J 23/75
Jozef Stefan Institute	(31) 1558061	B01J 37/02
(72) ROJAC, Tadej	(32) 31.08.2015	B01J 23/74
KUSCER HROVATIN, Danjela	(33) France	B01J 35/10
MORILLO MARTÍN, Diego	(51) B01J 19/00	(11) EP3393659
AMANTIA, David	C40B 50/14	(21) EP16819535.2
BELAVIC, Darko	B82Y 30/00	(47) 09.02.2022
FACCINI, Mirko	(11) EP2637780	(87) EP2016081922
(51) B01F 3/08	(21) EP11788706.7	29.06.2017
B01F 5/06	(47) 09.02.2022	(22) 20.12.2016
B01F 5/00	(87) US2011060217	(54) METHOD FOR PREPARING A
B01F 15/02	18.05.2012	HYDROGENATION CATALYST
A45D 34/04	(22) 10.11.2011	(73) Shell Internationale Research
A45D 40/00	(54) PROTEIN ARRAYS AND METHODS OF	Maatschappij B.V.
A45D 34/00	USING AND MAKING THE SAME	(72) KLEMT, Andreas
B01F 13/00	(73) Gen9, Inc.	FRIEDEL, Frank
B01F 13/10	(72) CHU, Larry Li-Yang	DOMOKOS, László
B05B 11/00	JACOBSON, Joseph	STOBBE, Erwin, Roderick
B05B 15/20	HUDSON, Michael E.	BOETTCHER, Stefan
(11) EP3603784	(31) 412941 P	(31) 15201753
(21) EP18770927.4	(32) 12.11.2010	(32) 21.12.2015
(47) 09.02.2022	(33) United States of America	(33) European Patent Office (EPO)
(87) KR2018003563	(51) B01J 19/02	(51) B01L 3/00
27.09.2018	B01J 19/24	A61M 1/36
(22) 26.03.2018	C10G 9/00	G01N 15/10
(54) APPARATUS AND METHOD FOR	C10G 2/00	B03B 1/04
MANUFACTURING INSTANTLY	C10K 1/04	(11) EP3490712
EMULSIFIED COSMETICS	C10J 3/74	(21) EP17734536.0
(73) Amorepacific Corporation	C23C 24/10	(47) 09.02.2022
(72) NAM, Jin	(11) EP2911782	(87) US2017030232
HAN, Kyung Sup	(21) EP13783537.7	01.02.2018
(31) 20170037725	(47) 09.02.2022	(22) 28.04.2017
(32) 24.03.2017	(87) EP2013072407	(54) ACOUSTIC SEPARATION FOR
(33) Korea (Republic)	01.05.2014	BIOPROCESSING
(51) B01F 7/18	(22) 25.10.2013	(73) The Charles Stark Draper Laboratory,
B01F 9/12	(54) METHOD USING PROTECTIVE	Inc.
B01F 15/02	COATING FOR METAL SURFACES	(72) FIERING, Jason, O.
B01F 15/00	(73) Technip France	KOTZ, Kenneth
B08B 3/02	(72) JEUNINK, Franciscus Arnoldus Maria	(31) 201662367773 P
(11) EP3765180	RISSEEUW, Izaak Jacobus	(32) 28.07.2016
(21) EP19710385.6	(31) 12190188	(33) United States of America
(47) 09.02.2022	(32) 26.10.2012	(51) B01L 3/00
(87) EP2019055871	(33) European Patent Office (EPO)	B29C 45/16
19.09.2019	(51) B01J 23/63	(11) EP3710164
(22) 08.03.2019	B01D 53/94	(21) EP18810877.3
(54) MIXING DEVICE HAVING A TWO-PART	B01J 35/04	(47) 09.02.2022
CLOSURE LID	F01N 3/10	(87) AT2018000089
(73) Maschinenfabrik Gustav Eirich GmbH &	F01N 3/28	16.05.2019
Co KG	(11) EP3034165	(22) 06.11.2018
(72) BLAU, Simon	(21) EP14869605.7	(54) SENSOR CASSETTE
SCHMITT, Clemens	(47) 09.02.2022	(73) ERBA Technologies Austria GmbH
(31) 102018106192	(87) JP2014082540	(72) REIF, Sebastian
(32) 16.03.2018	18.06.2015	HACKL, Martin
(33) Germany	(22) 09.12.2014	WERKL, Dietmar
(51) B01F 11/02	(54) EXHAUST SYSTEM COMPRISING AN	SIEBER, Arne
B01F 3/08	EXHAUST CLEANING CATALYST	SCHLEMBACHER, Gerhard
B01F 13/10	(73) Cataler Corporation	FELSBERGER, Robert
(11) EP3344379	(72) TAKI, Kenichi	(31) 4392017

(32) 10.11.2017	(54) A METHOD OF DETECTING GENETIC	(73) TOTO LTD.
(33) Austria	MATERIAL IN A BIOLOGICAL	(72) MATSUI, Hideyuki
(51) B01L 3/00	SAMPLE AND A DEVICE FOR ITS	KANASHIRO, Masanobu
F16K 99/00	IMPLEMENTATION	(31) 2019141332
(11) EP2931427	(73) Genomtec SA	2019141331
(21) EP13811618.1	(72) TOKARSKI, Miron	2019141330
(47) 09.02.2022	ROGUSZCZAK, Henryk, Waldemar	2018171702
(87) IB2013060217	DOBOSZ, Tadeusz, Marian	(32) 31.07.2019
19.06.2014	MALODOBRA-MAZUR, Malgorzata	31.07.2019
(22) 18.11.2013	ANDRZEJEWSKI, Damian, Romuald	31.07.2019
(54) FLUIDIC SYSTEM WITH FLUIDIC STOP	DABROWSKI, Arkadiusz, Piotr	13.09.2018
(73) Siemens Healthineers Nederland B.V.	GOLONKA, Leszek	(33) Japan
(72) PRINS, Menno Willem Jose	(31) 41990716	Japan
EVERS, Toon Hendrik	(32) 21.12.2016	Japan
VERHOECKX, Godefridus Johannes	(33) Poland	Japan
SMULDERS, Nicole Henrica Maria	(51) B01L 9/00	(51) B05B 3/04
SCHOLTEN, Monica	G01N 35/00	B05B 1/04
(31) 201261736612 P	G01N 35/10	B05B 3/00
(32) 13.12.2012	(11) EP3666381	B05B 1/28
(33) United States of America	(21) EP18212806.6	B05B 3/18
(51) B01L 3/00	(47) 09.02.2022	(11) EP3801923
G01N 33/543	(22) 14.12.2018	(21) EP19737896.1
G01N 33/558	(54) LABORATORY DEVICE FOR	(47) 09.02.2022
(11) EP3544735	AUTOMATIC TREATMENT OF	(87) IB2019054474
(21) EP17874590.7	LABORATORY SAMPLES	05.12.2019
(47) 09.02.2022	(73) Eppendorf AG	(22) 30.05.2019
(87) US2017062516	(72) KROOG, Jens-Peter	(54) NUTATING LIQUID-EMITTING DEVICE
31.05.2018	(51) B02C 17/18	AND COMBINATION THEREOF WITH
(22) 20.11.2017	B02C 17/04	AN ANTI-NUTATING ADAPTATION KIT
(54) LATERAL FLOW ASSAY DEVICE	F16B 5/02	(73) Drechsel, Arno
(73) Bio-Rad Laboratories, Inc.	(11) EP3019277	(72) Drechsel, Arno
(72) STRONG, William	(21) EP14823387.7	(31) 201800005858
MCKEE, Clayton T.	(47) 09.02.2022	(32) 30.05.2018
(31) 201662425839 P	(87) AU2014000700	(33) Italy
(32) 23.11.2016	15.01.2015	(51) B05B 7/02
(33) United States of America	(22) 08.07.2014	B05B 9/01
(51) B01L 3/00	(54) STRESS DISTRIBUTION ELEMENT	A61M 11/00
H01L 23/473	FOR A GRINDING MILL SHELL	A61M 5/00
(11) EP3590603	(73) Metso Outotec Finland Oy	A61M 5/145
(21) EP19183443.1	(72) GREEN, Nicholas John	A61M 11/02
(47) 09.02.2022	BELKE, Jeffrey Victor	A61M 35/00
(22) 28.06.2019	(31) 2013206749	B05B 7/24
(54) INTERPOSER WITH FIRST AND	(32) 08.07.2013	B05B 9/08
SECOND ADHESIVE LAYERS	(33) Australia	A61P 17/02
(73) Illumina, Inc.	(51) B05B 1/16	A61P 43/00
(72) Modiano, Steven H.	B05B 1/18	B05B 7/04
Kreindl, Gerald	(11) EP3452226	B05B 7/06
Smith, Randall	(21) EP17711280.2	(11) EP3468722
Yuan, Dajun	(47) 09.02.2022	(21) EP17813943.2
Quang, LiangLiang	(87) GB2017050643	(47) 09.02.2022
Zimmerley, Maxwell	09.11.2017	(87) US2017037274
Tran, Hai Quang	(22) 10.03.2017	21.12.2017
Bowen, M. Shane	(54) SPRAY HEADS	(22) 13.06.2017
Pitera, Arthur J.	(73) Kohler Mira Limited	(54) MODULAR DEVICE FOR CELL
(31) 2021377	(72) KINGTON, Gary	SPRAYING
201862693762 P	BROWNING, Simon	(73) RenovaCare Sciences Corp.
(32) 23.07.2018	(31) 201607824	(72) SCHUBERT, Frank
03.07.2018	(32) 04.05.2016	BHOGAL, Jatinder S.
(33) Netherlands	(33) United Kingdom	BOLD, Thomas
United States of America	(51) B05B 1/16	(31) 201662349979 P
(51) B01L 7/00	B05B 1/18	(32) 14.06.2016
B01L 3/00	B05B 12/00	(33) United States of America
C12Q 1/6844	E03C 1/04	(51) B05B 12/10
(11) EP3338891	(11) EP3623054	B05B 14/00
(21) EP17002043.2	(21) EP19196821.3	E03B 1/04
(47) 09.02.2022	(47) 09.02.2022	E03C 1/04
(22) 20.12.2017	(22) 11.09.2019	G01K 13/02
	(54) SHOWER HEAD	B05B 1/18

B05B 15/60	(73) CVR Global, Inc.	(33) United States of America
(11) EP3753639	(72) STEPHEN, Gary	(51) B21D 22/20
(21) EP19204118.4	LANGSTON, Alan	B21D 22/24
(47) 09.02.2022	BAKEMA, Peter	B21D 51/26
(22) 18.10.2019	KLINE, Bret	(11) EP3218127
(54) SHOWER HEAD WATER COLLECTING DEVICE	(31) 358202 P	(21) EP15858443.3
(73) Save Water Dot Co., Ltd.	(32) 24.06.2010	(47) 09.02.2022
(72) CHIU, Hsi-Ying	(33) United States of America	(87) US2015060347
(31) 108207927 U	(51) B07B 1/18	19.05.2016
(32) 21.06.2019	B07B 1/40	(22) 12.11.2015
(33) Taiwan, Province of China	B07B 1/55	(54) FLANGE PROJECTION CONTROL SYSTEM AND METHOD
(51) B05C 1/16	B07B 7/06	(73) Ekl Machine Company
B05C 7/06	B05B 7/14	(72) LIVEZEY, Daniel
C14B 1/56	(11) EP3318338	LYDON, Edward
C14B 11/00	(21) EP17200319.6	MENNO, Daniel
(11) EP3794152	(47) 09.02.2022	HIBBS, William
(21) EP19728538.0	(22) 07.11.2017	SCHENK, Jeffrey
(47) 09.02.2022	(54) CONTAINER FOR SIEVING PAINTING POWDER	(31) 201462078597 P
(87) IB2019053805	(73) Volonte', Luigi Carlo Maria	(32) 12.11.2014
21.11.2019	(72) Volonte', Luigi Carlo Maria	(33) United States of America
(22) 09.05.2019	(31) 201600112477	(51) B21D 51/26
(54) MACHINE FOR THE SIZING AND COLOURING OF HOLES IN LEATHER OR LEATHERETTE PRODUCTS	(32) 08.11.2016	B21D 51/44
(73) Galli S.p.a.	(33) Italy	B65D 43/00
(72) GALLI, Emilio	(51) B08B 1/00	B65B 7/28
(31) 201800005415	B65G 1/00	G01C 5/00
(32) 16.05.2018	B25J 11/00	B21D 51/30
(33) Italy	(11) EP3501673	(11) EP3305432
(51) B05C 17/005	(21) EP17210103.2	(21) EP16193005.2
B01F 9/02	(47) 09.02.2022	(47) 09.02.2022
B01F 15/02	(22) 22.12.2017	(22) 10.10.2016
B05C 17/01	(54) CLEANING MACHINE AND METHOD FOR ITS OPERATION	(54) TESTING MEAN FOR CAN CLOSER
(11) EP3517221	(73) Borbet Thüringen GmbH	(73) Xolution GmbH
(21) EP17852467.4	(72) Keller, Kevin	(72) Bratsch, Christian
(47) 09.02.2022	Honsel, Claus-Michael	(51) B22D 17/08
(87) ES2017070598	(51) B21C 37/15	B22D 17/20
29.03.2018	B21C 1/22	B22D 17/30
(22) 06.09.2017	(11) EP3389887	(11) EP3666418
(54) MIXING DEVICE AND APPLICATOR FOR SEALANTS	(21) EP16815842.6	(21) EP18914758.0
(73) Ortiz Garcia, Daniel	(47) 09.02.2022	(47) 09.02.2022
(72) Ortiz Garcia, Daniel	(87) EP2016081554	(87) JP2018015454
(31) 201600784	22.06.2017	17.10.2019
(32) 20.09.2016	(22) 16.12.2016	(22) 12.04.2018
(33) Spain	(54) METHOD FOR PRODUCING A HIGH-PRESSURE PIPE	(54) CASTING DEVICE, METHOD FOR MANUFACTURING CASTING, AND SEAL STRUCTURE
(51) B05D 1/00	(73) Sandvik Materials Technology	(73) Ahresty Corporation
(11) EP2758183	Deutschland GmbH	(72) TAKAHASHI Takanori
(21) EP11872227.1	(72) FROBÖSE, Thomas	KOMAKI Shigeyoshi
(47) 09.02.2022	RAUFFMANN, Udo	SAKAZAWA Toshiyuki
(87) IL2011000739	HEDVALL, Christofer	(51) B22D 17/12
21.03.2013	(31) 102015122297	B29C 45/17
(22) 18.09.2011	(32) 18.12.2015	(11) EP3374105
(54) BIO-DEGRADABLE PLANT POT OR FOODWARE	(33) Germany	(21) EP16793867.9
(73) Bio Plasmar Ltd	(51) B21C 47/04	(47) 09.02.2022
(72) SAMET, Chanoch	B21C 47/28	(87) EP2016077012
(51) B06B 1/06	(11) EP3402615	18.05.2017
(11) EP2585227	(21) EP16822335.2	(22) 08.11.2016
(21) EP11754558.2	(47) 09.02.2022	(54) VERTICAL PRESS FOR A CASTING MACHINE, AND CASTING MACHINE
(47) 09.02.2022	(87) US2016066620	(73) Kurtz GmbH
(87) US2011041678	20.07.2017	(72) HOYER, Christian
29.12.2011	(22) 14.12.2016	HARTMANN, Lothar
(22) 23.06.2011	(54) ROLLING MILL POURING REEL	(31) 102015119243
(54) SENSOR, SENSOR PAD AND SENSOR ARRAY FOR DETECTING INFRASONIC ACOUSTIC SIGNALS	(73) Primetals Technologies USA LLC	(32) 09.11.2015
	(72) PALFREMAN, Matthew	(33) Germany
	PATEL, Paras	(51) B22F 3/105
	(31) 201662277103 P	
	(32) 11.01.2016	

B33Y 50/02	(47) 09.02.2022	(33) China
B29C 67/00	(87) CN2016076381	(51) B23B 29/24
B29C 64/386	13.04.2017	B23Q 5/04
B29C 64/153	(22) 15.03.2016	B23B 29/32
B33Y 50/00	(54) METHOD FOR PREPARING NEW	B23Q 39/00
G06F 30/17	SILVER NANOWIRES WITH UNIFORM	(11) EP3646973
G06F 119/18	ASPECT RATIO AND NODES	(21) EP18823113.8
(11) EP3232353	(73) Chongqing University Of Arts And	(47) 09.02.2022
(21) EP17166097.0	Sciences	(87) JP2018021276
(47) 09.02.2022	(72) YAN, Hengqing	03.01.2019
(22) 11.04.2017	JIN, Rong	(22) 01.06.2018
(54) SYSTEM AND PROCESS FOR	LI, Lu	(54) TOOL REST FOR MACHINE TOOL
EVALUATING AND VALIDATING	CHEN, Shanyong	(73) Citizen Machinery Co., Ltd.
ADDITIVE MANUFACTURING	LIU, Bitao	Citizen Watch Co., Ltd.
OPERATIONS	LI, Junjun	(72) TAGUCHI Noriyoshi
(73) Raytheon Technologies Corporation	(31) 201510645719	(31) 2017127788
(72) Furrer, David Ulrich	(32) 09.10.2015	(32) 29.06.2017
Burlatsky, Sergei F.	(33) China	(33) Japan
Novikov, Dmitri	(51) B22F 9/24	(51) B23B 51/04
Brindley, William J.	D06M 11/83	B28D 1/04
(31) 201715441630	D21H 11/16	(11) EP3515641
201662321328 P	D21H 15/02	(21) EP17772685.8
(32) 24.02.2017	B22F 1/00	(47) 09.02.2022
12.04.2016	(11) EP3141323	(87) EP2017073853
(33) United States of America	(21) EP15789071.6	29.03.2018
United States of America	(47) 09.02.2022	(22) 21.09.2017
(51) B22F 7/00	(87) JP2015062517	(54) CORE DRILL BIT
B22F 3/11	12.11.2015	(73) Hilti Aktiengesellschaft
(11) EP3626371	(22) 24.04.2015	(72) BALTER, Marco
(21) EP18803244.5	(54) COMPLEX, METHOD FOR	GUT, Manuel
(47) 09.02.2022	PRODUCING COMPLEX, DISPERSION,	KINKELDEI, Thomas
(87) KR2018005545	METHOD FOR PRODUCING	CLAUSI, Donato
22.11.2018	DISPERSION, AND OPTICAL	(31) 16190256
(22) 15.05.2018	MATERIAL	(32) 23.09.2016
(54) METHOD FOR MANUFACTURING	(73) Toppan Printing Co., Ltd.	(33) European Patent Office (EPO)
METAL FOAM	(72) ISOGAI Takuya	(51) B23C 5/10
(73) LG Chem, Ltd.	(31) 2014101632	B23B 31/11
(72) LEE, Jin Kyu	2014097635	(11) EP3124149
KIM, So Jin	(32) 15.05.2014	(21) EP16181452.0
SHIN, Jong Min	09.05.2014	(47) 09.02.2022
(31) 20170060630	(33) Japan	(22) 27.07.2016
(32) 16.05.2017	Japan	(54) ROTATABLE MACHINING TOOL
(33) Korea (Republic)	(51) B23B 3/00	HAVING AN AXIAL SECURING
(51) B22F 9/24	B23P 23/02	ELEMENT FOR KEY AND KEY
B22F 1/00	(11) EP2745958	(73) Franz Haimer Maschinenbau KG
(11) EP3360628	(21) EP13197293.7	(72) Haimer, Franz
(21) EP16852969.1	(47) 09.02.2022	(31) 102015214432
(47) 09.02.2022	(22) 13.12.2013	(32) 29.07.2015
(87) CN2016076284	(54) MACHINE TOOL WITH LATHE TOOL	(33) Germany
13.04.2017	AND MILLING CUTTER	(51) B23C 5/20
(22) 14.03.2016	(73) Fu Ding Electronical Technology	B23C 5/10
(54) UNIFORM ASPECT RATIO SILVER	(Jiashan) Co., Ltd.	(11) EP3505284
NANOWIRES PREPARATION METHOD	Hon Hai Precision Industry Co., Ltd.	(21) EP17843290.2
(73) Chongqing University Of Arts And	(72) Jia, Jian-Shi	(47) 09.02.2022
Sciences	Li, Jie	(87) JP2017026635
(72) JIN, Rong	Zhuang, Da-Qing	01.03.2018
LI, Lu	Qu, Jian	(22) 24.07.2017
GUAN, Youwei	Liu, Yi	(54) CUTTING INSERT, AND INDEXABLE
YAN, Hengqing	Chen, Feng-Hua	ROTATIONAL CUTTING TOOL
CHEN, Shanyong	Yang, Ming-Lu	(73) MOLDINO Tool Engineering, Ltd.
LIU, Bitao	Sui, Jing-Shuang	(72) KOBAYASHI Yoshiyuki
(31) 201510645800	Peng, Yang-Mao	(31) 2016165904
(32) 09.10.2015	Yu, Jian-Min	(32) 26.08.2016
(33) China	Zhang, Tian-En	(33) Japan
(51) B22F 9/24	Zhang, Wei-Chuan	(51) B23F 21/00
B22F 1/00	Xu, Zhen-Guang	B23F 5/16
(11) EP3360629	(31) 201210554105	(11) EP3546101
(21) EP16852970.9	(32) 19.12.2012	

(21) EP19171498.9	MALPICA, Julio	MATSUSHITA Muneo
(47) 09.02.2022	BASSI, Corrado	IKEDA Rinsei
(22) 08.03.2016	AHMED, Hany	(31) 2016073233
(54) METHOD AND DEVICE FOR GEAR CUTTING WORK WHEELS BY MEANS OF GEAR SKIVING	SIMON, Jörg	(32) 31.03.2016
(73) Profilator GmbH & Co. KG	CHAI, Xiao	(33) Japan
(72) Heinemann, Wolfgang	(31) 201662411196 P	(51) B23K 26/361
Buchholz, Klaus	(32) 21.10.2016	G01B 11/24
(31) 102015104500	(33) United States of America	G01B 11/00
(32) 25.03.2015	(51) B23K 20/06	(11) EP3666449
(33) Germany	(11) EP3731989	(21) EP18212255.6
(51) B23H 1/02	(21) EP18822348.1	(47) 09.02.2022
B23H 7/04	(47) 09.02.2022	(22) 13.12.2018
(11) EP3251778	(87) EP2018085859	(54) METHOD AND DEVICE FOR DEBURRING A VACUUM PUMP COMPONENT
(21) EP17179488.6	04.07.2019	(73) PFEIFFER VACUUM GMBH
(47) 09.02.2022	(22) 19.12.2018	(72) Kahl, Joachim
(22) 31.03.2016	(54) METHOD FOR ASSEMBLING A RING IN A TUBULAR PIECE BY MAGNETIC PULSE	Sieben, Daniel
(54) WIRE ELECTRIC DISCHARGE MACHINE	(73) ADM28 S.à.r.l.	(51) B23K 26/38
(73) FANUC CORPORATION	(72) MANDEL, Eric	B23K 26/00
(72) KAWAHARA, Akiyoshi	(31) 1763207	G05B 19/4155
NAKASHIMA, Yasuo	(32) 26.12.2017	G05B 19/416
FURUTA, Tomoyuki	(33) France	B23K 101/18
YODA, Shinji	(51) B23K 20/12	(11) EP3210715
(31) 2016001244	(11) EP3738706	(21) EP15852755.6
2015075849	(21) EP20160910.4	(47) 09.02.2022
(32) 06.01.2016	(47) 09.02.2022	(87) JP2015078868
02.04.2015	(22) 04.03.2020	28.04.2016
(33) Japan	(54) TOOL HEAD ASSEMBLY FOR SOLID STATE ADDITIVE MANUFACTURING AND CORRESPONDING METHOD	(22) 13.10.2015
Japan	(73) The Boeing Company	(54) LASER CUTTING PROCESSING METHOD, CONTROL DEVICE IN LASER CUTTING PROCESSING MACHINE, AND PROGRAMMING DEVICE
(51) B23H 1/02	(72) Verma, Ravi	(73) Amada Holdings Co., Ltd.
B23H 7/04	(31) 201916391065	(72) MASUDA, Kenji
(11) EP3085482	(32) 22.04.2019	(31) 2014217409
(21) EP16163268.2	(33) United States of America	(32) 24.10.2014
(47) 09.02.2022	(51) B23K 20/12	(33) Japan
(22) 31.03.2016	B23K 20/227	(51) B23K 26/38
(54) WIRE ELECTRIC DISCHARGE MACHINE	B23K 101/18	B23K 26/70
(73) FANUC CORPORATION	B23K 103/04	(11) EP3693125
(72) YODA, Shinji	(11) EP3639965	(21) EP18864583.2
FURUTA, Tomoyuki	(21) EP18840952.8	(47) 09.02.2022
NAKASHIMA, Yasuo	(47) 09.02.2022	(87) JP2018037371
KAWAHARA, Akiyoshi	(87) JP2018028516	11.04.2019
(31) 2016001244	07.02.2019	(22) 05.10.2018
2015075849	(22) 31.07.2018	(54) LASER PROCESSING METHOD AND DEVICE
(32) 06.01.2016	(54) DOUBLE-SIDE FRICTION STIR WELDING METHOD FOR METAL SHEETS OR METAL PLATES	(73) Amada Holdings Co., Ltd.
02.04.2015	(73) JFE Steel Corporation	(72) ISHIGURO, Hiroaki
(33) Japan	(72) IKEDA, Rinsei	MASUDA, Kenji
Japan	MATSUSHITA, Muneo	ITO, Ryohei
(51) B23K 11/11	(31) 2017148785	MIZOGUCHI, Yuya
B23K 11/18	(32) 01.08.2017	KOBAYASHI, Ryo
B23K 103/10	(33) Japan	(31) 2018180518
B23K 103/18	(51) B23K 20/12	2017200048
B23K 103/16	B23K 103/04	2017195965
B23K 101/18	(11) EP3437781	(32) 26.09.2018
(11) EP3528991	(21) EP17774532.0	16.10.2017
(21) EP17794533.4	(47) 09.02.2022	06.10.2017
(47) 09.02.2022	(87) JP2017011286	(33) Japan
(87) US2017057613	05.10.2017	Japan
26.04.2018	(22) 22.03.2017	Japan
(22) 20.10.2017	(54) FRICTION STIR WELDING METHOD AND APPARATUS FOR STRUCTURAL STEEL	(51) B23K 35/26
(54) ENHANCED RESISTANCE SPOT WELDING USING CLADDED ALUMINUM ALLOYS	(73) JFE Steel Corporation	C03C 27/04
(73) Novelis Inc.	(72) TANIGUCHI Koichi	B32B 17/10
(72) BEZENCON, Cyrille		(11) EP2704873

(21) EP12725870.5	(47) 09.02.2022	(51) B25B 13/46
(47) 09.02.2022	(87) JP2010059548	B25B 13/10
(87) GB2012050958	09.12.2010	(11) EP3517246
08.11.2012	(22) 04.06.2010	(21) EP16916668.3
(22) 02.05.2012	(54) FIXED-ABRASIVE-GRAIN MACHINING	(47) 09.02.2022
(54) GLAZING WITH A SOLDERED	APPARATUS, FIXED-ABRASIVE-	(87) CN2016107363
CONNECTOR	GRAIN MACHINING METHOD,	29.03.2018
(73) Pilkington Group Limited	AND SEMICONDUCTOR-WAFER	(22) 25.11.2016
(72) IKAWA, Naotaka	MANUFACTURING METHOD	(54) UNIVERSAL SOCKET RATCHET
OKAMOTO, Kozo	(73) SUMCO Corporation	WRENCH
ONO, Kazuhisa	(72) KUROSAWA, Yoshiaki	(73) Toolsland Invent.Co. Ltd
LYON, Michael	HASHII, Tomohiro	(72) YOU, Janie
INADA, Kazuo	KAKIZONO, Yuichi	(31) 201621079631 U
YOSHIDA, Mamoru	(31) 2009193838	(32) 26.09.2016
SUZUKI, Takashi	2009135295	(33) China
MUROMACHI, Takashi	(32) 25.08.2009	(51) B25B 13/46
(31) 201111481	04.06.2009	B25B 21/00
201107311	(33) Japan	B25B 23/147
(32) 05.07.2011	Japan	B25B 23/144
03.05.2011	(51) B24B 27/00	(11) EP3730246
(33) United Kingdom	B24B 31/00	(21) EP19203717.4
United Kingdom	B24B 31/06	(47) 09.02.2022
(51) B23K 37/053	B24B 31/02	(22) 17.10.2019
F16L 1/10	(11) EP3015221	(54) ELECTRIC QUICK ACTION WRENCH
F16L 13/02	(21) EP15190971.0	WITH SETTABLE TORQUE
B23K 101/06	(47) 09.02.2022	(73) Hu, Bobby
(11) EP3743239	(22) 22.10.2015	(72) Hu, Bobby
(21) EP19707468.5	(54) A MACHINE FOR MULTIPLE DRAG	(31) 107142724
(47) 09.02.2022	FINISHING	(32) 29.11.2018
(87) IB2019050624	(73) Redaelli, Paolo	(33) Taiwan, Province of China
01.08.2019	(72) Redaelli, Paolo	(51) B25B 27/10
(22) 25.01.2019	(31) MI20141876	(11) EP3261804
(54) DEVICE FOR ALIGNING CONTIGUOUS	(32) 03.11.2014	(21) EP16703952.8
TUBES FOR LAYING TUBULAR PIPES	(33) Italy	(47) 09.02.2022
(73) GORIZIANE GROUP S.p.A.	(51) B24C 1/00	(87) EP2016052450
(72) SOMMAGGIO, Nicola	B24C 11/00	01.09.2016
QUALIZZA, Claudio	B05B 5/03	(22) 05.02.2016
ZANIN, Pierluigi	B05B 7/08	(54) METHOD FOR OPERATING A
(31) 201800001889	B05B 12/18	HYDRAULICALLY OPERATED
(32) 25.01.2018	(11) EP3648898	HANDHELD APPARATUS AND
(33) Italy	(21) EP18781065.0	HYDRAULICALLY OPERATED
(51) B23Q 1/01	(47) 09.02.2022	HANDHELD APPARATUS
B23Q 1/00	(87) US2018026143	(73) Gustav Klauke GmbH
B23Q 1/48	11.10.2018	(72) FRENKEN, Egbert
B23Q 1/58	(22) 04.04.2018	(31) 102015102806
B23Q 11/08	(54) PASSIVE ELECTROSTATIC CO2	(32) 27.02.2015
B23Q 1/62	COMPOSITE SPRAY APPLICATOR	(33) Germany
(11) EP3357634	AND CORRESPONDING METHOD	(51) B25J 9/00
(21) EP15905407.1	(73) Hitachi High-Tech Corporation	(11) EP3310528
(47) 09.02.2022	(72) JACKSON, Mackenzie, A.	(21) EP16730435.1
(87) JP2015077794	JACKSON, David, P.	(47) 09.02.2022
06.04.2017	(31) 201762481575 P	(87) EP2016064428
(22) 30.09.2015	(32) 04.04.2017	29.12.2016
(54) MACHINING CENTER	(33) United States of America	(22) 22.06.2016
(73) Makino Milling Machine Co., Ltd.	(51) B24D 5/10	(54) MACHINE TOOL FOR MACHINING A
(72) SUZUKI, Toshihiro	B23D 47/00	WORKPIECE
KAWARASAKI, Takuma	(11) EP3395502	(73) DECKEL MAHO Pfronten GmbH
TERAKAWA, Shinji	(21) EP18159182.7	(72) KSCHIER, Uwe
SUZUKI, Kenichiro	(47) 09.02.2022	GEISSLER, Alfred
(51) B24B 7/22	(22) 28.02.2018	(31) 102015211496
B24B 7/17	(54) SUPPORTING BODY FOR A GRINDING	(32) 22.06.2015
B24D 7/06	OR A CUTTING TOOL	(33) Germany
B24B 37/08	(73) Tyrolit - Schleifmittelwerke Swarovski	(51) B25J 9/00
B24B 37/24	K.G.	A45F 3/10
B24B 37/22	(72) GRÜNDHAMMER, Martin	(11) EP3393726
H01L 21/02	(31) 502012017	(21) EP16819113.8
(11) EP2439768	(32) 14.03.2017	(47) 09.02.2022
(21) EP10783466.5	(33) Austria	(87) EP2016082588

29.06.2017	(22) 25.02.2020	(54) PLATE PRODUCTION SYSTEM WITH EJECTION DEVICE
(22) 23.12.2016	(54) ROBOT WAIST SKELETON AND ROBOT	(73) SR-Schindler Maschinen - Anlagetechnik GmbH
(54) MODULAR EXOSKELETON STRUCTURE COMPRISING A BACKPACK SUPPORT MODULE	(73) Cloudminds Robotics Co., Ltd. Cloudminds (Beijing) Technologies Co., Ltd.	(72) Stöcker, Robert
(73) Safran Electronics & Defense B-Temia Inc.	(72) Huang, William Xiao-Qing	(31) 102019108313
(72) GRENIER, Jordane	Luo, Cheng	(32) 29.03.2019
VAURE, Alexandre	Yan, Xunge	(33) Germany
BAPTISTA, Jonathan	Cai, Yuanping	(51) B28C 5/38
THIEFFRY, Roland	Cui, Haotian	B28C 7/02
(31) 1563347	(31) 201910154350	B01F 3/04
(32) 24.12.2015	(32) 01.03.2019	B01F 15/00
(33) France	(33) China	B01F 15/04
(51) B25J 9/00	(51) B26D 7/26	C04B 28/14
B25J 17/02	B26D 1/03	(11) EP3835021
(11) EP3221093	B26D 7/06	(21) EP19306622.2
(21) EP15794855.5	B26D 3/28	(47) 09.02.2022
(47) 09.02.2022	B26D 1/00	(22) 10.12.2019
(87) EP2015075560	(11) EP3755510	(54) APPARATUS AND METHOD FOR THE PRODUCTION OF A PLASTER SLURRY
26.05.2016	(21) EP19705188.1	(73) SAINT-GOBAIN PLACO
(22) 03.11.2015	(47) 09.02.2022	(72) JAFFEL, Hamouda
(54) DEVICE AND METHOD FOR HANDLING AND/OR MANIPULATING ARTICLES SUCH AS CONTAINERS OR PIECE GOODS	(87) EP2019054105	MORLAT, Richard
(73) Kronos Aktiengesellschaft	29.08.2019	RANZANI DA COSTA, Andrea
(72) UNTERSEHER, Josef	(22) 19.02.2019	(51) B28C 7/02
ZEINER, Peter	(54) KNIFE ASSEMBLY AND CUTTING SYSTEM EQUIPPED WITH SAME	B01F 15/00
KOLLMUSS, Manuel	(73) FAM	G01N 33/38
HARTL, Michael	(72) BUCKS, Brent L.	(11) EP3389965
HAAS, Johann	(31) 18157572	(21) EP16822648.8
WESTERMEIER, Christian	(32) 20.02.2018	(47) 09.02.2022
(31) 102014223407	(33) European Patent Office (EPO)	(87) EP2016081379
(32) 17.11.2014	(51) B27B 17/12	22.06.2017
(33) Germany	B27B 17/02	(22) 16.12.2016
(51) B25J 9/04	(11) EP3095568	(54) METHOD FOR PRODUCING CONCRETE
B25J 9/06	(21) EP16170636.1	(73) Universität Stuttgart
B25J 9/00	(47) 09.02.2022	(72) BAUMERT, Christian
(11) EP2364821	(22) 20.05.2016	GARRECHT, Harald
(21) EP11167149.1	(54) CHAINSAW GUIDE BAR AND METHOD OF MANUFACTURING	(31) 102015225810
(47) 09.02.2022	(73) Beerens, Thomas	(32) 17.12.2015
(22) 27.10.2010	(72) Beerens, Thomas	(33) Germany
(54) Robot with seven joints	(31) 2015901897	(51) B29B 11/16
(73) Kabushiki Kaisha Yaskawa Denki	(32) 22.05.2015	B29C 31/00
(72) OKAHISA, Manabu	(33) Australia	B29C 31/08
OKA, Takenori	(51) B27G 19/04	(11) EP3814083
(31) 2009257212	(11) EP2953773	(21) EP19737478.8
(32) 10.11.2009	(21) EP13814352.4	(47) 09.02.2022
(33) Japan	(47) 09.02.2022	(87) EP2019066966
(51) B25J 9/16	(87) US2013074443	02.01.2020
A61B 1/005	19.06.2014	(22) 26.06.2019
(11) EP3795057	(22) 11.12.2013	(54) PREFORM TOOL AT LEAST FOR PRODUCING A PREFORM OF A COMPOSITE COMPONENT
(21) EP18918770.1	(54) CIRCULAR SAW BLADE GUARD WITH SCRATCH-RESISTANT PANEL	(73) Schmidt & Heinzmann GmbH & Co. KG
(47) 09.02.2022	(73) Robert Bosch GmbH	(72) FÜRST, Tobias
(87) CN2018086883	(72) GROTH, Brady	MÄRTIENS, Steffen
21.11.2019	FRANCIS, Noel	(31) 102018115325
(22) 15.05.2018	LAUBACH, Marco	(32) 26.06.2018
(54) ENDOSCOPE STEERING ADJUSTMENT METHOD AND ENDOSCOPE	(31) 201261735591 P	(33) Germany
(73) Shenzhen Yateks Optical Electronic Technology Co., Ltd.	(32) 11.12.2012	(51) B29C 33/56
(72) MA, Tianyue	(33) United States of America	C23C 18/12
(51) B25J 17/00	(51) B28B 5/08	C23C 18/38
(11) EP3702113	B28B 13/06	C23C 18/32
(21) EP20159198.9	(11) EP3718720	C08J 7/12
(47) 09.02.2022	(21) EP20163712.1	C23C 18/16
	(47) 09.02.2022	(11) EP3336135
	(22) 17.03.2020	(21) EP17207346.2

(47) 09.02.2022	F16B 37/12	(32) 10.02.2016
(22) 14.12.2017	(11) EP3338988	01.04.2016
(54) METHOD FOR THE MODIFICATION OF PLASTIC SURFACES	(21) EP17209891.5	(33) United States of America
(73) Leibniz-Institut für Polymerforschung Dresden e.V.	(47) 09.02.2022	European Patent Office (EPO)
(72) ZIMMERMANN, Philipp	(22) 21.12.2017	(51) B29C 64/124
NAGEL, Jürgen	(54) INSERT TO BE MOUNTED ON A SUBSTRATE AND SUBSTRATE WITH THE INSERT	B29C 64/209
(31) 102016124434	(73) Bollhoff Oталu	B41J 2/155
(32) 15.12.2016	(72) Faguer, Sylvain	(11) EP3787874
(33) Germany	Lejars, Patrick	(21) EP19742988.9
(51) B29C 33/72	Jambut, Jean-François	(47) 09.02.2022
B29C 33/02	Basset, Raphael	(87) NL2019050258
B29K 21/00	Berlire, Emmanuelle	07.11.2019
(11) EP3398747	Bovagnet, Frédéric	(22) 02.05.2019
(21) EP16886490.8	(31) 1663278	(54) A METHOD AND SYSTEM FOR LAYERWISE FORMING AN OBJECT FROM A MEDIUM CAPABLE OF SOLIDIFICATION
(47) 09.02.2022	(32) 23.12.2016	(73) Nederlandse Organisatie voor toegepast-natuurwetenschappelijk Onderzoek TNO
(87) JP2016086841	(33) France	(72) OLIESLAGERS, Ruud
27.07.2017	(51) B29C 45/14	SMELTINK, Jeroen Anthonius
(22) 12.12.2016	B29L 31/34	VAN HERP, Jeroen Arjan
(54) VENT HOLE CLEANING APPARATUS AND VENT HOLE CLEANING METHOD	(11) EP3756851	(31) 18170372
(73) Sumitomo Rubber Industries, Ltd.	(21) EP20179950.9	(32) 02.05.2018
(72) AMAIWA, Yuichiro	(47) 09.02.2022	(33) European Patent Office (EPO)
(31) 2016008155	(22) 15.06.2020	(51) B29C 64/153
(32) 19.01.2016	(54) DUAL SENSOR ASSEMBLY AND METHOD OF FABRICATION	B29C 64/20
(33) Japan	(73) NXP B.V.	B33Y 10/00
(51) B29C 35/02	(72) OFFERMANN, Bernd	B33Y 30/00
B33Y 30/00	(31) 201916451281	B22F 10/20
B33Y 50/02	(32) 25.06.2019	B22F 10/30
B29C 64/165	(33) United States of America	B22F 12/00
B29C 64/393	(51) B29C 45/16	B29C 64/241
B29C 64/10	B29C 45/37	B29C 64/245
(11) EP3200973	B29K 75/00	B33Y 50/02
(21) EP14781164.0	(11) EP3814087	(11) EP3687719
(47) 09.02.2022	(21) EP18796026.5	(21) EP18774035.2
(87) EP2014071243	(47) 09.02.2022	(47) 09.02.2022
07.04.2016	(87) EP2018079803	(87) EP2018075745
(22) 03.10.2014	02.01.2020	04.04.2019
(54) CONTROLLING TEMPERATURE IN AN APPARATUS FOR GENERATING A THREE-DIMENSIONAL OBJECT	(22) 31.10.2018	(22) 24.09.2018
(73) Hewlett-Packard Development Company, L.P.	(54) METHOD FOR PRODUCING A COMPOSITE PART	(54) METHOD AND APPARATUS FOR ADDITIVE MANUFACTURING
(72) PUIGARDEU ARAMENDIA, Sergio	(73) KraussMaffei Technologies GmbH	(73) ARCAM AB
RAMIREZ MUELA, David	(72) BEYL, Nicolas	(72) HELLESTAM, Calle
FORNOS, Pol	SCHMIDHUBER, Sebastian	(31) 201816103686
SANCHEZ RIBES, Salvador	(31) 102018115291	201762565596 P
(51) B29C 37/00	(32) 26.06.2018	(32) 14.08.2018
B29C 45/14	(33) Germany	29.09.2017
C08J 7/12	(51) B29C 48/00	(33) United States of America
(11) EP3336136	B29C 48/25	United States of America
(21) EP17207354.6	C08J 5/18	(51) B29C 64/165
(47) 09.02.2022	C08L 23/06	G02B 3/00
(22) 14.12.2017	C08L 23/08	B82Y 30/00
(54) METHOD FOR MODIFYING PLASTIC SURFACES AND MODIFIED PLASTIC SURFACES HAVING CHEMICALLY FUNCTIONALIZED MICROCAVITIES	B29C 48/10	B33Y 70/10
(73) Leibniz-Institut für Polymerforschung Dresden e.V.	B29C 48/21	B29D 11/00
(72) NAGEL, Jürgen	(11) EP3411428	G02B 13/00
ZIMMERMANN, Philipp	(21) EP16822596.9	(11) EP3429829
(31) 102016124439	(47) 09.02.2022	(21) EP16910720.8
(32) 15.12.2016	(87) US2016067728	(47) 09.02.2022
(33) Germany	17.08.2017	(87) US2016044369
(51) B29C 45/14	(22) 20.12.2016	01.02.2018
B29C 70/68	(54) POLYETHYLENE FILMS AND PROCESSES FOR MAKING THEM	(22) 28.07.2016
	(73) ExxonMobil Chemical Patents Inc.	(54) OPTICALLY ACTIVE MATERIAL SETS
	(72) WANG, Xiao-Chuan	(73) Hewlett-Packard Development Company, L.P.
	WEN, Li	(72) STASIAK, James William
	(31) 201662293559 P	(51) B29C 64/40
	16163511	

B29C 64/118	(54) CONDUCTIVE PRE-IMPREGNATED	(32) 06.03.2015
B33Y 10/00	COMPOSITE SHEET AND METHOD	(33) Japan
B33Y 70/00	FOR MAKING THE SAME	(51) B29L 7/00
C08F 212/08	(73) The Boeing Company	B29L 24/00
C08F 220/18	(72) BRALEY, Daniel J.	B29C 48/88
C08F 220/44	FERRIELL, Daniel R.	B29C 51/02
C08F 222/40	TRUSCELLO, Justine M.	B29C 51/22
C08F 220/14	BELK, John H.	B29D 24/00
(11) EP3689585	HEINZ, Stephen R.	B32B 37/20
(21) EP18860869.9	(31) 201615095546	E04C 2/34
(47) 09.02.2022	(32) 11.04.2016	B29C 48/00
(87) JP2018035900	(33) United States of America	B29C 48/07
04.04.2019	(51) B29C 73/16	B29C 48/35
(22) 27.09.2018	B29L 30/00	B32B 37/15
(54) SOLUBLE MATERIAL FOR THREE- DIMENSIONAL MODELING	(11) EP3103629	B29D 99/00
(73) Kao Corporation	(21) EP14883896.4	B32B 27/08
(72) YOSHIMURA, Tadanori	(47) 09.02.2022	B29C 49/00
(31) 2018178542	(87) JP2014082032	B32B 3/28
2017187465	03.09.2015	E04C 2/36
(32) 25.09.2018	(22) 03.12.2014	(11) EP3769930
28.09.2017	(54) TIRE PUNCTURE REPAIR KIT	(21) EP20182822.5
(33) Japan	(73) Sumitomo Rubber Industries, Ltd.	(47) 09.02.2022
Japan	Unik World Ind. Co. Ltd.	(22) 29.06.2020
(51) B29C 67/00	(72) KAWATANI, Akihiko	(54) METHOD AND PLANT FOR THE PRODUCTION OF THREE-LAYER PANELS IN THERMOPLASTIC MATERIAL
B33Y 40/00	CHOU, Vincent	(73) BG Plast Impianti S.r.l.
(11) EP3330062	KONO, Tsutomu	(72) ROCCON, Luca
(21) EP16201429.4	(31) 2014183531	(31) 201900012594
(47) 09.02.2022	2014034463	(32) 22.07.2019
(22) 30.11.2016	(32) 09.09.2014	(33) Italy
(54) MATERIAL FEEDING DEVICE FOR A STEREOLITHOGRAPHY APPARATUS	25.02.2014	
(73) Ivoclar Vivadent AG	(33) Japan	(51) B30B 11/00
(72) Pokorny, Walter	Japan	B30B 9/30
Lorünser, Johannes	(51) B29D 30/06	B65B 63/02
Jussel, Rudolf	B29C 33/50	(11) EP3140109
Ebert, Jörg	(11) EP3600862	(21) EP15711446.3
(51) B29C 70/38	(21) EP18722658.4	(47) 09.02.2022
G01B 11/30	(47) 09.02.2022	(87) EP2015055031
G01N 21/00	(87) FR2018050785	12.11.2015
B29C 70/54	04.10.2018	(22) 11.03.2015
G01N 21/3563	(22) 29.03.2018	(54) COMPRESSOR ARRANGEMENT FOR AUTOMATIC COMPRESSING OF GROUND COFFEE
G01N 21/88	(54) TYRE CURING MEMBRANE AND PROCESS	(73) PROBAT-WERKE VON GIMBORN MASCHINENFABRIK GMBH
G01N 21/84	(73) Compagnie Générale des Etablissements Michelin	(72) LECHNER, Tilo
(11) EP3628473	(72) SIMONELLI, Thomas	(31) 102014106407
(21) EP19199931.7	PIALOT, Frédéric	(32) 07.05.2014
(47) 09.02.2022	FOMBELLE, Damien	(33) Germany
(22) 26.09.2019	(31) 1752722	
(54) METHOD AND DEVICE FOR DETERMINING DEFECTS IN FIBROUS MATERIALS	(32) 30.03.2017	(51) B32B 1/08
(73) Deutsches Zentrum für Luft- und Raumfahrt e.V.	(33) France	B32B 5/12
(72) Meister, Sebastian	(51) B29D 30/08	B32B 5/26
(31) 102018124079	B29D 30/66	B32B 3/30
(32) 28.09.2018	B29D 30/00	B32B 9/00
(33) Germany	B29C 65/48	G21C 3/00
(51) B29C 70/50	B29L 30/00	(11) EP3647043
B29C 70/88	(11) EP3266623	(21) EP19205304.9
B32B 5/16	(21) EP16761686.1	(47) 09.02.2022
B32B 5/24	(47) 09.02.2022	(22) 25.10.2019
B29C 70/02	(87) JP2016056891	(54) TUBULAR BODY CONTAINING SIC FIBER AND METHOD FOR PRODUCING THE SAME
B29K 105/16	15.09.2016	(73) Admap, Inc.
(11) EP3235632	(22) 04.03.2016	(72) KAWAHARA, Fumitomo
(21) EP17161190.8	(54) TIRE	(31) 2018206259
(47) 09.02.2022	(73) Bridgestone Corporation	(32) 01.11.2018
(22) 15.03.2017	(72) GIZA, Emil	(33) Japan
	FUKUSHIMA, Atsushi	
	SONE, Naoyuki	
	SUZUKI, Takahiro	
	(31) 2015045037	

(51) B32B 3/08	(73) Buergofol GmbH	(33) Japan
B32B 3/12	(72) Schleicher, Gregor	Japan
B32B 3/26	Boutrid, Abdel-Kader	
B32B 3/30	Stark, Kurt	(51) B32B 37/04
B32B 7/12	(31) 102013100272	B29D 24/00
B32B 15/20	102012112024	B32B 3/00
(11) EP3718759	(32) 11.01.2013	B64D 11/00
(21) EP20166209.5	10.12.2012	(11) EP3590714
(47) 09.02.2022	(33) Germany	(21) EP19180083.8
(22) 27.03.2020	Germany	(47) 09.02.2022
(54) ASSEMBLY FORMING AN		(22) 13.06.2019
ACOUSTICALLY ABSORBENT	(51) B32B 9/00	(54) METHOD FOR MANUFACTURING A
MATERIAL	B29C 43/00	COMPOSITE PANEL
(73) AIRBUS OPERATIONS	C09K 3/10	(73) Cath'Air
(72) RAVISE, Florian	(11) EP3066172	(72) CATHERINEAU, Anne-Sophie
MERCAT, Florent	(21) EP14859431.0	CATHERINEAU, Marie
(31) 1903515	(47) 09.02.2022	(31) 1855230
(32) 02.04.2019	(87) US2014059244	(32) 14.06.2018
(33) France	14.05.2015	(33) France
(51) B32B 3/12	(22) 06.10.2014	
B32B 5/02	(54) CARBON COMPOSITES, METHODS	(51) B32B 37/12
B32B 7/12	OF MANUFACTURE, AND USES	B32B 27/10
B32B 5/26	THEREOF	B32B 37/26
B32B 15/14	(73) Baker Hughes Holdings LLC	B32B 7/12
B32B 27/12	(72) XU, Zhiyue	B32B 7/14
B32B 27/30	ZHAO, Lei	B32B 17/10
B32B 27/34	(31) 201314072016	B32B 27/08
B32B 27/36	(32) 05.11.2013	B32B 27/30
B32B 27/42	(33) United States of America	B32B 7/06
B32B 27/28	(51) B32B 27/08	(11) EP2925100
B32B 29/02	B32B 27/32	(21) EP15156471.3
B32B 3/26	B32B 27/28	(47) 09.02.2022
B32B 5/14	B32B 7/12	(22) 25.02.2015
B29C 70/34	(11) EP3526037	(54) Busbars
B29D 99/00	(21) EP17859648.2	(73) Strip Tinning Limited
B29C 70/08	(47) 09.02.2022	(72) Barton, Richard
(11) EP3727832	(87) TH2017000011	Wong, Simon
(21) EP18812206.3	19.04.2018	Holmes, Christopher
(47) 09.02.2022	(22) 17.02.2017	O'Connor, Stephen
(87) EP2018084328	(54) POLYMER BARRIER LAMINATE TUBE	(31) 201405495
27.06.2019	FOR CONTAINER	(32) 27.03.2014
(22) 11.12.2018	(73) Kimpai Lamitube Co., Ltd.	(33) United Kingdom
(54) PROCESS FOR MANUFACTURING	(72) LIMATIBUL, Sumet	
POLYURETHANE SANDWICH MOLDED	(31) 1601006127	(51) B32B 41/00
PARTS	(32) 11.10.2016	B29C 63/26
(73) BASF SE	(33) Thailand	B29D 35/00
(72) SCHNEIDER, Juergen	(51) B32B 27/30	A43D 3/04
SCHMUTZER, Klaus	B32B 27/08	(11) EP3206860
WESTERMANN, Gerd	C08J 5/18	(21) EP15850000.9
PARTUSCH, Georg	C08L 27/16	(47) 09.02.2022
(31) 17209234	C08L 33/06	(87) US2015055689
(32) 21.12.2017	(11) EP3604429	21.04.2016
(33) European Patent Office (EPO)	(21) EP18770847.4	(22) 15.10.2015
(51) B32B 7/12	(47) 09.02.2022	(54) MEMBRANE LAMINATION OF THREE-
B32B 27/08	(87) JP2018011824	DIMENSIONAL (3D) ARTICLE
B32B 27/12	27.09.2018	(73) OutDry Technologies Corporation
B32B 27/30	(22) 23.03.2018	(72) MORLACCHI, Matteo
B32B 27/32	(54) RESIN COMPOSITION, FLUORINE-	(31) 201462064804 P
B32B 27/34	CONTAINING FILM, FLUORINE-	(32) 16.10.2014
B32B 1/08	CONTAINING LAMINATED FILM AND	(33) United States of America
F16L 55/165	LAMINATED MOLDED BODY	
E03F 3/06	(73) Mitsubishi Chemical Corporation	(51) B33Y 50/00
(11) EP2937214	(72) SANEFUJI, Koichiro	B29C 64/386
(21) EP15167035.3	ABE, Junichi	B29C 64/40
(47) 09.02.2022	HIGASHIKAWA, Megumi	G06F 30/00
(22) 10.12.2013	(31) 2017116992	G06F 119/18
(54) INSERTION HOSE FOR TRENCHLESS	2017056793	(11) EP3327593
SEWER REHABILITATION	(32) 14.06.2017	(21) EP16306560.0
	23.03.2017	(47) 09.02.2022
		(22) 25.11.2016
		(54) ORIENTATION OF A REAL OBJECT
		FOR 3D PRINTING

(73) Dassault Systèmes	(21) EP17157138.3	Fehlner, Dr. Andreas
(72) RAMEAU, Jean-François DESLANDES, Arnaud	(47) 09.02.2022 (22) 21.02.2017	(51) B41M 5/26 B41M 5/337 B41M 5/50 B41M 5/52
(51) B33Y 70/00 B33Y 30/00 B29C 70/88 H05K 3/12 H05K 1/09 B33Y 80/00 B29C 64/165	(54) INKJET HEAD AND INKJET PRINTER (73) Toshiba TEC Kabushiki Kaisha (72) AKIMOTO, Manabu (31) 2016077471 (32) 07.04.2016 (33) Japan	(11) EP3587132 (21) EP19181842.6 (47) 09.02.2022 (22) 21.06.2019
(11) EP3442781 (21) EP16898847.5 (47) 09.02.2022 (87) US2016027973 19.10.2017 (22) 15.04.2016 (54) MATERIAL SETS (73) Hewlett-Packard Development Company, L.P.	(51) B41J 2/045 B41J 2/14 (11) EP3723988 (21) EP18807673.1 (47) 09.02.2022 (87) EP2018083214 20.06.2019 (22) 30.11.2018 (54) METHOD OF OPERATING A DROPLET EJECTION DEVICE (73) Canon Production Printing Holding B.V. (72) KLEIN KOERKAMP, Koen Joan KHALATE, Amol A.	(54) SHEET, SHEET PROCESSING APPARATUS AND SHEET PROCESSING METHOD (73) Seiko Epson Corporation (72) KURATA, Hiroki UENO, Yoshihiro SAGO, Takumi SEKI, Shunichi (31) 2018118714 (32) 22.06.2018 (33) Japan
(72) DEKAM, Kevin P. CHAFFINS, Sterling	(73) Canon Production Printing Holding B.V. (72) KLEIN KOERKAMP, Koen Joan KHALATE, Amol A.	(51) B42D 25/30 G02B 5/28 G09F 3/02 B42D 25/324
(51) B41C 1/10 B41M 1/06 B41N 1/00 (11) EP3783435 (21) EP19826576.1 (47) 09.02.2022 (87) JP2019024545 02.01.2020 (22) 20.06.2019 (54) LITHOGRAPHIC PRINTING ORIGINAL PLATE, METHOD FOR MANUFACTURING LITHOGRAPHIC PRINTING PLATE, AND METHOD FOR MANUFACTURING PRINTS USING SAME (73) Toray Industries, Inc. (72) KUSE, Yasunori INOUE, Takejiro TSUTSUMI, Yusuke	(31) 17207784 (32) 15.12.2017 (33) European Patent Office (EPO) (51) B41J 2/175 (11) EP3463904 (21) EP16903331.3 (47) 09.02.2022 (87) US2016034295 30.11.2017 (22) 26.05.2016 (54) BUFFER RESERVOIRS (73) Hewlett-Packard Development Company, L.P. (72) MIRAVET JIMENEZ, Joan Albert FORT FILGUEIRA, Aleix CRESPI SERRANO, Albert	(11) EP3750716 (21) EP20189138.9 (47) 09.02.2022 (22) 30.06.2017 (54) DISPLAY BODY AND ARTICLE PROVIDED WITH DISPLAY BODY (73) Toppan Printing Co., Ltd. (72) Endo, Hiroyuki (31) 2016231478 2016130381 (32) 29.11.2016 30.06.2016 (33) Japan Japan
(51) B41J 2/01 B41J 29/46 H04N 1/60 B41J 2/21 B41J 29/393 B41J 2/045 B41J 2/155 H04N 1/401 (11) EP3231611 (21) EP15866500.0 (47) 09.02.2022 (87) JP2015081700 16.06.2016 (22) 11.11.2015 (54) INFORMATION PROCESSING DEVICE, IMAGE PRINTING APPARATUS, AND INFORMATION PROCESSING METHOD (73) Konica Minolta, Inc. (72) IIDA, Masaru (31) 2014247973 (32) 08.12.2014 (33) Japan	(51) B41J 3/60 B41J 15/04 B41J 11/00 B41J 2/21 (11) EP3474130 (21) EP18209372.4 (47) 09.02.2022 (22) 31.07.2013 (54) MODIFYING PRINTING BASED ON CROSS-WEB DISTORTIONS (73) Hewlett-Packard Development Company, L.P. (72) Galmes, Jose M. Reyero, Santiago Fernandez, Cesar	(51) B42D 25/378 B42D 25/382 B42D 25/387 B42D 25/405 B42D 25/41 B41M 5/34 B41J 2/32 B41J 11/00 B41J 2/44 B41J 2/46 B41J 2/47 B41J 2/475 B41J 2/315 B41J 2/455 (11) EP3663099 (21) EP19213700.8 (47) 09.02.2022 (22) 04.12.2019 (54) SINGLE STEP PROCESSING OF COLOR THERMOCHROMIC MATERIALS (73) Palo Alto Research Center Incorporated (72) WANG, Yu PIRMORADI, Fatemeh Nazly CHUA, Christopher L. (31) 201816211749 (32) 06.12.2018 (33) United States of America
(51) B41J 2/045 (11) EP3228458	(51) B41J 29/393 H04N 1/60 B41J 2/21 B41J 2/045 G06T 7/00 B41J 25/00 (11) EP3871892 (21) EP20159963.6 (47) 09.02.2022 (22) 28.02.2020 (54) DETEKTION METHOD TO MINIMIZE MACULATURE (73) Heidelberger Druckmaschinen AG (72) Abosetta, Mina Hakim Latif Trachanas, Dr. Ilias	(51) B42D 25/405 B42D 25/45

B42D 25/455	(22) 19.04.2018	(11) EP3718802
B42D 25/378	(54) BOGIE FOR A FORESTRY VEHICLE	(21) EP20175401.7
B42D 25/355	AND VEHICLE WITH AT LEAST ONE	(47) 09.02.2022
B42D 25/24	BOGIE AXLE	(22) 11.02.2015
B42D 13/00	(73) NAF Neunkirchener Achsenfabrik AG	(54) COMPOSITE LIFTGATE
B42C 1/00	(72) Schnabel, Bernhard	(73) Magna International Inc.
(11) EP3360692	Stadler, Jürgen	(72) LANGLEY, Eric, R.
(21) EP18156453.5	Jämsä, Jouni Kalervo	RODDY, Stephen, R.
(47) 09.02.2022	Stöckl, Markus	KUNTZE, Christopher, J.
(22) 13.02.2018	(51) B60G 17/015	(31) 201461938452 P
(54) METHOD FOR PRODUCING A	B60G 17/016	(32) 11.02.2014
SECURITY FEATURE IN A DATA	B60W 40/13	(33) United States of America
CARRIER AND A DATA CARRIER	B62K 25/08	(51) B60J 5/10
COMPRISING SUCH A SECURITY	B60G 17/018	B62D 35/00
FEATURE	B60G 17/027	(11) EP3495183
(73) Bundesdruckerei GmbH	B62K 25/28	(21) EP18210140.2
(72) Peinze, Franziska	(11) EP3597457	(47) 09.02.2022
Siebert, Martin	(21) EP17838027.5	(22) 04.12.2018
Muth, Oliver	(47) 09.02.2022	(54) VEHICLE DOOR COMPRISING A
Gradischek, Klaus	(87) JP2017009078	PROTRUDING PACKING ELEMENT
Mathea, Arthur	13.09.2018	(73) Flex-N-Gate France
(31) 102017202267	(22) 07.03.2017	(72) BRET, Sébastien
(32) 13.02.2017	(54) VEHICLE HEIGHT ADJUSTMENT	(31) 1761858
(33) Germany	DEVICE	(32) 08.12.2017
(51) B60B 33/00	(73) Hitachi Astemo, Ltd.	(33) France
(11) EP3812165	(72) MIYATA Hiroyuki	(51) B60K 1/02
(21) EP20315429.9	ISHIKAWA Fumiaki	(11) EP3546262
(47) 09.02.2022	MURAKAMI Yosuke	(21) EP17894221.5
(22) 08.10.2020	(31) 2017041753	(47) 09.02.2022
(54) CASTOR WITH CONTROLLABLE	(32) 06.03.2017	(87) CN2017115667
LOCKING	(33) Japan	02.08.2018
(73) TENTE ROULETTES POLYMERES-	(51) B60G 17/019	(22) 12.12.2017
BRUANDET	(11) EP3461662	(54) HORIZONTAL DRIVE ASSEMBLY OF
(72) Moya, Jean-Yves	(21) EP18196483.4	DUAL POWER SOURCE VEHICLE
Dayt, Patrick	(47) 09.02.2022	(73) Jing-Jin Electric Technologies Co., Ltd
(31) 1911892	(22) 25.09.2018	(72) Li, Jianwen
(32) 24.10.2019	(54) DAMPING DEVICE AND	YU, Ping
(33) France	MAINTENANCE STATION WITH	YANG, Changqi
(51) B60C 11/00	EVALUATION UNIT	(31) 201710059916
B60C 9/06	(73) Siemens AG Österreich	(32) 24.01.2017
(11) EP3661765	(72) Faethe, Tobias	(33) China
(21) EP18753469.8	Hladik, Reinhard	(51) B60K 7/00
(47) 09.02.2022	Pangerl, Sabine	B60L 15/20
(87) IB2018055703	Schiefer, Martin	(11) EP3363672
07.02.2019	Heiling, Wolfgang	(21) EP18157095.3
(22) 31.07.2018	(31) 508272017	(47) 09.02.2022
(54) BICYCLE TYRE	(32) 27.09.2017	(22) 16.02.2018
(73) Pirelli Tyre S.p.A.	(33) Austria	(54) DRIVE FORCE CONTROL SYSTEM
(72) ERBIZZONI, Laura	(51) B60J 5/04	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
BRIVIO, Paolo	B60J 5/10	(72) NASU, Takano
(31) 201700087536	B60S 1/58	ISONO, Hiroshi
(32) 31.07.2017	(11) EP3645323	(31) 2017030462
(33) Italy	(21) EP18785468.2	(32) 21.02.2017
(51) B60C 23/04	(47) 09.02.2022	(33) Japan
(11) EP3650248	(87) US2018040242	(51) B60K 11/08
(21) EP19176850.6	03.01.2019	F01P 7/10
(47) 09.02.2022	(22) 29.06.2018	(11) EP3736156
(22) 28.05.2019	(54) LIFTGATE REINFORCEMENT	(21) EP20167787.9
(54) TIRE PRESSURE SENSOR DEVICE	ARRANGEMENTS	(47) 09.02.2022
(73) Nie, Yingwu	(73) Magna Exteriors Inc.	(22) 02.04.2020
(72) Nie, Yingwu	(72) PABIAN, Mike	(54) AERATION DEVICE FOR A VEHICLE,
(31) 201821850820 U	WOODSON, Paul	ASSOCIATED ASSEMBLY METHOD
(32) 09.11.2018	KUNTZE, Christopher	(73) Flex-N-Gate France
(33) China	CHAAAYA, Riad	(72) GUYON, Cyrille
(51) B60G 5/02	(31) 201762527569 P	DUQUESNOY, David
(11) EP3556579	(32) 30.06.2017	(31) 1903580
(21) EP18168275.8	(33) United States of America	(32) 03.04.2019
(47) 09.02.2022	(51) B60J 5/10	

(33) France	B60T 8/32	B60R 21/21
(51) B60K 35/00	B60T 17/22	(11) EP3708422
(11) EP3613623	B60T 13/66	(21) EP18876370.0
(21) EP19187471.8	(11) EP3628529	(47) 09.02.2022
(47) 09.02.2022	(21) EP17933096.4	(87) JP2018035637
(22) 22.07.2019	(47) 09.02.2022	16.05.2019
(54) VEHICULAR DISPLAY DEVICE AND ROOF MODULE	(87) CN2017120286	(22) 26.09.2018
	31.05.2019	(54) SIDE AIR BAG DEVICE AND METHOD FOR MANUFACTURING SAME
(73) YAZAKI CORPORATION	(22) 29.12.2017	(73) TS Tech Co., Ltd.
(72) ISHIBASHI, Shuichi	(54) TRAIN COMPARTMENT BRAKE CONTROL METHOD, TRAIN COMPARTMENT, AND TRAIN	(72) YAMABE Atsushi
MATSUURA, Kouji		KURIYAMA Daisuke
(31) 2018155561	(73) CRRC Tangshan Co., Ltd.	(31) 2017216314
(32) 22.08.2018	(72) MA, Chuan	2017216313
(33) Japan	ZHANG, Yingyu	2017216312
(51) B60K 37/06	QUAN, De	(32) 09.11.2017
(11) EP3393842	CHEN, Shujun	09.11.2017
(21) EP16816691.6	DU, Huijie	09.11.2017
(47) 09.02.2022	LIU, Zhonghua	(33) Japan
(87) EP2016082024	ZHANG, Qinggang	Japan
29.06.2017	QIN, Jiaying	Japan
(22) 20.12.2016	LIU, Yanxiang	(51) B60Q 1/04
(54) METHOD AND SYSTEM FOR PROVIDING A USER INTERFACE FOR AT LEAST ONE DEVICE OF A VEHICLE	WANG, Zhenhong	B60R 1/00
(73) Volkswagen Aktiengesellschaft	ZHU, Liqiang	F21S 41/125
(72) KASSNER, Astrid	(31) 201711162652	F21S 41/30
KLAAS, Michael	(32) 21.11.2017	F21S 41/657
(31) 102015122601	(33) China	F21S 41/67
(32) 22.12.2015	(51) B60L 50/51	(11) EP3401161
(33) Germany	B60L 15/20	(21) EP18171663.0
(51) B60L 3/00	B60L 7/14	(47) 09.02.2022
B60L 53/22	(11) EP2705977	(22) 09.05.2018
B60L 53/14	(21) EP13175012.7	(54) ROAD SURFACE DRAWING SYSTEM, LIGHTING TOOL FOR VEHICLE AND METHOD OF ROAD SURFACE DRAWING
B60L 53/10	(47) 09.02.2022	(73) STANLEY ELECTRIC CO., LTD.
(11) EP3616972	(22) 04.07.2013	(72) KOGURE, Shinya
(21) EP19020127.7	(54) Control method for electric vehicles	(31) 2017095727
(47) 09.02.2022	(73) Linde Material Handling GmbH	2017095726
(22) 15.03.2019	(72) Manthey, Maik	(32) 12.05.2017
(54) CHARGING DEVICE AND METHOD FOR CONTROLLING A DCCHARGING DEVICE OUTSIDE THE VEHICLE	Huber, Franz	12.05.2017
(73) Dr. Ing. h.c. F. Porsche AG	Kromm, Dr., Andreas	(33) Japan
(72) Pfizenmaier, Tim	(31) 102012106535	Japan
Spesser, Daniel	(32) 19.07.2012	(51) B60Q 1/068
(31) 102018121320	(33) Germany	B60Q 1/076
(32) 31.08.2018	(51) B60N 2/18	F16B 41/00
(33) Germany	B60N 2/07	(11) EP3242812
(51) B60L 5/22	B60N 2/06	(21) EP15823724.8
B60L 5/12	B60N 2/015	(47) 09.02.2022
(11) EP3470255	(11) EP3511201	(87) FR2015053770
(21) EP18197948.5	(21) EP19155749.5	14.07.2016
(47) 09.02.2022	(47) 09.02.2022	(22) 30.12.2015
(22) 01.10.2018	(22) 11.12.2017	(54) LIGHTING CORRECTOR FOR A MOTOR-VEHICLE HEADLAMP WITH IMPROVED ABUTMENT
(54) CURRENT COLLECTOR FOR A TROLLEY CAR AND TROLLEY CAR	(54) ADJUSTMENT DEVICE FOR ADJUSTING THE LONGITUDINAL POSITION OF A VEHICLE SEAT	(73) AML Systems
(73) Siemens Mobility GmbH	(73) Brose Fahrzeugteile SE & Co. Kommanditgesellschaft, Coburg	(72) TOULISSE, Ludovic
(72) Gebhard, Bruno	(72) KRÖNER, Gregor	KOULOUGH, Hassan
(31) 102017218004	AMSTEIN, Marcel	(31) 1550077
(32) 10.10.2017	KIESER, Sandra	(32) 06.01.2015
(33) Germany	GROPP, Jörg	(33) France
(51) B60L 7/24	REHMET, Fabian	(51) B60R 11/02
B60T 13/74	HOFMANN, Jochen	B60P 3/36
B61L 25/02	(31) 102016225053	B60R 15/00
B61L 15/00	(32) 14.12.2016	B62D 33/06
B60T 8/17	(33) Germany	(11) EP3659866
B60T 8/171	(51) B60N 2/427	(21) EP19212744.7
H04L 12/46	B60N 2/90	(47) 09.02.2022
	B60R 21/207	
	B60R 21/217	

(22) 29.11.2019	26.09.2019	(51) B60R 22/18
(54) WET CELL FOR A RECREATIONAL VEHICLE AND A RECREATIONAL VEHICLE	(22) 13.03.2019	B60N 2/90
(73) Hymer GmbH & Co. KG	(54) SENSOR ARRANGEMENT FOR A VEHICLE AND METHOD FOR MONITORING A SENSOR	B60R 22/26
(72) Steigmüller, Anton	(73) Robert Bosch GmbH	B60N 2/68
Wiest, Hansi	(72) KOENIG, Simon	(11) EP3730355
(31) 102018130340	LANG, Gunther	(21) EP18894669.3
(32) 29.11.2018	SCHMID, Michael	(47) 09.02.2022
(33) Germany	JOHN, Dirk	(87) JP2018046349
(51) B60R 13/02	KRIEG, Markus	04.07.2019
B60J 5/10	(31) 102018204286	(22) 17.12.2018
(11) EP3674144	(32) 21.03.2018	(54) VEHICULAR PASSENGER RESTRAINT DEVICE
(21) EP19219556.8	(33) Germany	(73) MAZDA MOTOR CORPORATION
(47) 09.02.2022	(51) B60R 21/015	(72) INOUE Junsuke
(22) 23.12.2019	B60R 22/48	(31) 2017254303
(54) REAR DOOR WITH DOUBLE WALL CONSTRUCTION HAVING A CLOSING FLAP	B60R 21/01	(32) 28.12.2017
(73) Compagnie Plastic Omnium	(11) EP3659873	(33) Japan
(72) COUDRON, Philippe	(21) EP19210967.6	(51) B60R 25/04
BARBIER, Pascal	(47) 09.02.2022	(11) EP3694752
LETERRIER, Franck	(22) 22.11.2019	(21) EP18786714.8
(31) 1874247	(54) RADAR-BASED OCCUPANCY DETECTOR FOR AUTOMOBILES	(47) 09.02.2022
(32) 27.12.2018	(73) Littelfuse, Inc.	(87) EP2018077495
(33) France	(72) MISEVICIUS, Rimantas	18.04.2019
(51) B60R 13/10	SCHEELE, Jürgen	(22) 09.10.2018
B60R 21/015	FESSHAIE, Efrem	(54) METHOD FOR STOPPING A VEHICLE
B60R 25/10	(31) 201916686171	(73) Kai, Wissam
G06K 7/10	201862772698 P	Abiakle Kai, Elodie
G06K 19/07	(32) 17.11.2019	(72) Abiakle Kai, Elodie
G06K 19/077	29.11.2018	Kai, Wissam
G07B 15/06	(33) United States of America	(31) 1751255
(11) EP3733459	United States of America	(32) 10.10.2017
(21) EP20181226.0	(51) B60R 21/201	(33) Sweden
(47) 09.02.2022	B60R 21/213	(51) B60R 25/24
(22) 06.09.2016	B60R 21/232	G08B 21/24
(54) SELF-DECLARING ELECTRONIC LICENSE PLATE	(11) EP3663138	(11) EP3647128
(73) Neology, Inc.	(21) EP19213490.6	(21) EP18204218.4
(72) NYALAMADUGU, Sheshi	(47) 09.02.2022	(47) 09.02.2022
MULLIS, Joe	(22) 04.12.2019	(22) 02.11.2018
LEANIO, Bobby	(54) FASTENING ELEMENT FOR THE VEHICLE-SIDE MOUNTING OF AN AIRBAG MODULE	(54) A SYSTEM AND METHOD FOR FINDING A KEY
(31) 201562214173 P	(73) Dalphi Metal España, S.A.	(73) Ningbo Geely Automobile Research & Development Co. Ltd.
201562214166 P	(72) Schneeweiss, Philippe	(72) NILSSON, Magnus
(32) 03.09.2015	Santín Navarro, Pedro José	LINDBERG NILSSON, Erik
03.09.2015	Abelenda Alcalde, María del Pilar	(51) B60T 8/17
(33) United States of America	Areán Buján, José Manuel	B60L 7/24
United States of America	(31) 202018106999 U	B60L 7/18
(51) B60R 16/02	(32) 07.12.2018	B60T 8/171
(11) EP3865348	(33) Germany	B60T 8/172
(21) EP21155481.1	(51) B60R 21/2338	B60L 15/20
(47) 09.02.2022	B60R 21/235	(11) EP3351442
(22) 05.02.2021	B60R 21/239	(21) EP16845945.1
(54) GROMMET AND WIRE HARNESS	B60R 21/23	(47) 09.02.2022
(73) Yazaki Corporation	(11) EP3680136	(87) JP2016004153
(72) KIYOTA, Hirotaka	(21) EP18853599.1	23.03.2017
KIUCHI, Masaru	(47) 09.02.2022	(22) 13.09.2016
ONODA, Takeshi	(87) JP2018033032	(54) REGENERATIVE BRAKE CONTROL DEVICE
KATO, Junya	14.03.2019	(73) Mitsubishi Jidosha Kogyo Kabushiki Kaisha
(31) 2020024487	(22) 06.09.2018	(72) SHIMIZU, Ryo
(32) 17.02.2020	(54) AIRBAG	TOMITA, Yoshinori
(33) Japan	(73) Sumisho Airbag Systems Co., Ltd.	IKOMA, Norihiko
(51) B60R 21/01	(72) YOSHIDA, Masatoshi	(31) 2015183172
(11) EP3768558	HARABAYASHI, Teppei	(32) 16.09.2015
(21) EP19712919.0	(31) 2017172477	(33) Japan
(47) 09.02.2022	(32) 07.09.2017	(51) B60T 8/1755
(87) EP2019056235	(33) Japan	(11) EP3390176

(21) EP16809809.3	(51) B60T 15/02	(47) 09.02.2022
(47) 09.02.2022	B60T 15/30	(87) EP2015079219
(87) EP2016080724	B60T 15/42	30.06.2016
22.06.2017	(11) EP3724048	(22) 10.12.2015
(22) 13.12.2016	(21) EP18830215.2	(54) METHOD FOR AUTOMATICALLY
(54) METHOD FOR CONTROLLING A	(47) 09.02.2022	SWITCHING A MOTOR VEHICLE TO
VEHICLE	(87) EP2018085351	FREEWHEEL MODE
(73) Jaguar Land Rover Limited	20.06.2019	(73) Renault S.A.S.
(72) BIRCH, John	(22) 17.12.2018	Getrag Ford Transmissions GmbH
KOWALSKI, Krzysztof	(54) SECURELY CLOSING ACCELERATION	(72) PRENGER-BERNINGHOFF, Axel
BEEVER, Paul	VALVE FOR AUTOMATIC	SCHMITZ, Harald
(31) 201522297	COMPRESSED AIR BRAKES OF RAIL	MORENO LAHORE, Pedro
(32) 17.12.2015	VEHICLES	PLANCHE, Grégory
(33) United Kingdom	(73) KNORR-BREMSE Systeme für	NODIN, Bertrand
(51) B60T 13/22	Schienenfahrzeuge GmbH	(31) 1463182
B61H 13/00	(72) PETTER, Thomas	(32) 23.12.2014
(11) EP3176043	LUND, Karsten	(33) France
(21) EP16201681.0	HELLER, Martin	(51) B60W 30/12
(47) 09.02.2022	SONNTAG, Stefan	B60W 30/16
(22) 01.12.2016	(31) 102018201654	G01C 21/34
(54) DEVICE FOR AUXILIARY RELEASE OF	102017222978	B60K 35/00
FLUID ACTUATED VEHICLE BRAKES	(32) 02.02.2018	B60K 37/06
(73) KNORR-BREMSE Systeme für	15.12.2017	B60K 37/02
Schienenfahrzeuge GmbH	(33) Germany	B60W 50/14
(72) OBERPICHLER, Klaus	Germany	(11) EP3744595
ARTRU, Philippe	(51) B60T 17/22	(21) EP20176410.7
(31) 102015121001	(11) EP3468849	(47) 09.02.2022
(32) 03.12.2015	(21) EP17715045.5	(22) 30.09.2014
(33) Germany	(47) 09.02.2022	(54) METHOD FOR A DRIVER ASSISTANCE
(51) B60T 13/74	(87) EP2017000396	SYSTEM OF A VEHICLE AND DRIVER
F16D 65/18	14.12.2017	ASSISTANCE SYSTEM OF A VEHICLE
F16D 121/24	(22) 31.03.2017	(73) VOLKSWAGEN AG
(11) EP3275749	(54) METHOD FOR MONITORING AN	(72) BENDEWALD, Lennart
(21) EP16768649.2	ABS CONTROL PROCESS IN AN	HACKENBERG, Linn
(47) 09.02.2022	ELECTRICALLY CONTROLLABLE	(31) 102013110864
(87) JP2016058611	BRAKE SYSTEM AND	(32) 01.10.2013
29.09.2016	ELECTRONICALLY CONTROLLABLE	(33) Germany
(22) 17.03.2016	BRAKE SYSTEM	(51) B60W 50/00
(54) ELECTRIC BRAKE DEVICE	(73) ZF CV Systems Europe BV	B60W 40/068
(73) NTN Corporation	(72) MARX, Andreas	B60W 40/064
(72) MASUDA, Yui	BINDER, Hartmut	B60K 23/08
(31) 2015063675	(31) 102016007149	(11) EP3674160
(32) 26.03.2015	(32) 10.06.2016	(21) EP19215870.7
(33) Japan	(33) Germany	(47) 09.02.2022
(51) B60T 15/02	(51) B60T 17/22	(22) 13.12.2019
B60T 15/30	B60T 13/68	(54) DRIVE TRAIN OF A MOTOR VEHICLE
B60T 15/42	(11) EP3452347	AND METHOD FOR OPERATING A
(11) EP3724049	(21) EP17711086.3	DRIVE TRAIN OF A MOTOR VEHICLE
(21) EP18830216.0	(47) 09.02.2022	(73) Volkswagen AG
(47) 09.02.2022	(87) EP2017000325	(72) Schmitz, Dietmar
(87) EP2018085352	09.11.2017	(31) 102018133648
20.06.2019	(22) 13.03.2017	(32) 28.12.2018
(22) 17.12.2018	(54) METHOD FOR THE AUTOMATED	(33) Germany
(54) ACCELERATION VALVE FOR	ELECTRONIC CONTROL OF	(51) B60W 50/02
AUTOMATIC COMPRESSED AIR	A BRAKING SYSTEM AND	B60W 40/09
BRAKES OF RAIL VEHICLES	ELECTRONICALLY CONTROLLABLE	G07C 5/00
(73) KNORR-BREMSE Systeme für	BRAKING SYSTEM IN A UTILITY	G06N 20/00
Schienenfahrzeuge GmbH	VEHICLE	B60W 50/00
(72) SONNTAG, Stefan	(73) ZF CV Systems Europe BV	(11) EP3275758
LUND, Karsten	(72) WULF, Oliver	(21) EP17174760.3
HELLER, Martin	(31) 102016005317	(47) 09.02.2022
PETTER, Thomas	(32) 02.05.2016	(22) 07.06.2017
(31) 102018201655	(33) Germany	(54) ANOMALY CANDIDATE
102017222978	(51) B60W 10/02	INFORMATION ANALYSIS APPARATUS
(32) 02.02.2018	B60W 30/18	(73) Hitachi, Ltd.
15.12.2017	B60W 30/20	(72) MUTO, Kazuo
(33) Germany	(11) EP3237257	NISHIDA, Takehisa
Germany	(21) EP15808161.2	ISHIKAWA, Masayoshi

OKUDE, Mariko	LANDREAUD, Christophe	B61L 27/00
(31) 2016114646	(31) 2000456	(11) EP3395642
(32) 08.06.2016	(32) 17.01.2020	(21) EP18169752.5
(33) Japan	(33) France	(47) 09.02.2022
(51) B60W 50/08	(51) B61D 3/18	(22) 27.04.2018
B60W 60/00	(11) EP3604072	(54) IMPROVED AUTOMATIC TRAIN
(11) EP3747720	(21) EP18187294.6	CONTROL SYSTEM AND ASSOCIATED
(21) EP20174815.9	(47) 09.02.2022	METHOD
(47) 09.02.2022	(22) 03.08.2018	(73) ALSTOM Transport Technologies
(22) 14.05.2020	(54) LIFTABLE CARRYING DEVICE	(72) PRESTAIL, Andy
(54) VEHICLE GUIDANCE SYSTEM	(73) Blum, Franz	BALLESTEROS, Javier
AND METHOD FOR OPERATING	Kässbohrer Transport Technik GmbH	(31) 1753686
A VEHICLE WITH A PLURALITY	(72) FÖSSL, Horst	(32) 27.04.2017
OF PREDETERMINED MANUAL	BLUM, Franz	(33) France
STEERING SEMIAUTONOMOUS	(51) B61F 5/04	(51) B61L 29/30
MODES AND NON-MANUAL	G01M 17/10	B61L 23/04
STEERING SEMIAUTONOMOUS	(11) EP3835165	(11) EP3765346
MODES	(21) EP19020698.7	(21) EP19720415.9
(73) VOLKSWAGEN AG	(47) 09.02.2022	(47) 09.02.2022
(72) Bader, Viktor	(22) 13.12.2019	(87) EP2019059147
(31) 102019208136	(54) METHOD OF LEVELLING A RAIL	31.10.2019
(32) 05.06.2019	VEHICLE	(22) 10.04.2019
(33) Germany	(73) Bombardier Transportation GmbH	(54) METHOD FOR CONTROLLING A
(51) B61C 15/10	(72) Dowell, Adrian	LEVEL CROSSING AND RAILWAY
(11) EP3735368	Palombo, Antonio	CONTROL ARRANGEMENT
(21) EP18833006.2	(51) B61H 11/00	(73) Siemens Mobility GmbH
(47) 09.02.2022	B60T 13/66	(72) BRABAND, Jens
(87) EP2018085294	B60T 17/22	ZIROFF, Andreas
22.08.2019	B60L 7/00	GOLDAMMER, Matthias
(22) 17.12.2018	(11) EP3628563	(31) 102018206300
(54) GRITTING DEVICE FOR A RAIL	(21) EP18879098.4	(32) 24.04.2018
VEHICLE HAVING A DISTRIBUTOR	(47) 09.02.2022	(33) Germany
ELEMENT	(87) CN2018093605	(51) B62B 3/02
(73) Siemens Mobility GmbH	23.05.2019	B62B 3/10
(72) PRÖLL, Günther	(22) 29.06.2018	A45C 5/03
NITZSCHE, Christian	(54) RAIL TRAIN BRAKE CONTROL	A45C 5/14
BÖGE, Ronny	SYSTEM AND TRAIN	A45C 13/38
STELZLE, Wilfried	(73) CRRC Tangshan Co., Ltd.	B62B 3/00
(31) 102018202305	(72) CHEN, Lei	A45C 7/00
(32) 15.02.2018	ZHOU, Bo	A45C 13/04
(33) Germany	SHAO, Liyun	A45C 13/26
(51) B61C 17/04	XU, Hongmei	(11) EP3435810
B61D 17/06	XIE, Chunjie	(21) EP16907500.9
(11) EP3423329	FANG, Peilei	(47) 09.02.2022
(21) EP16708397.1	CAO, Keyu	(87) US2016039650
(47) 09.02.2022	Ji, Zhenshan	04.01.2018
(87) EP2016054621	LIU, Zhonghua	(22) 27.06.2016
08.09.2017	GAO, Shan	(54) FRAME TO REMOVABLY ATTACH
(22) 04.03.2016	MENG, Qingdong	BAGS
(54) BODY AND SECONDARY	(31) 201711147614	(73) Hewlett-Packard Development Company,
CONTROLLER FOR A RAIL VEHICLE,	(32) 17.11.2017	L.P.
METHOD FOR CONTROLLING A RAIL	(33) China	(72) HOFFMAN, Dustin
VEHICLE, CONTROL PANEL FOR A	(51) B61L 3/12	WONG, Glenn A.
BODY, AND RAIL VEHICLE	(11) EP3424796	AGEN, Tara J.
(73) Stadler Rail AG	(21) EP17305875.1	SCHODIN, Ramona K.
(72) WAGNIÈRE, Marc	(47) 09.02.2022	(51) B62D 1/181
(51) B61D 1/06	(22) 06.07.2017	F16H 25/20
B60R 3/00	(54) DEVICE FOR DETERMINING AT	(11) EP3619093
B61D 23/00	LEAST ONE CHARACTERISTIC OF A	(21) EP18722455.5
(11) EP3851353	RAILWAY RESONANT CIRCUIT, AND	(47) 09.02.2022
(21) EP21151816.2	TRACKSIDE TRAIN PROTECTION	(87) EP2018061129
(47) 09.02.2022	SYSTEM INCLUDING SUCH A DEVICE	08.11.2018
(22) 15.01.2021	(73) ALSTOM Transport Technologies	(22) 02.05.2018
(54) VEHICLE STAIRCASE AND	(72) PAPAGEORGIOU, Achille	(54) STEERING COLUMN FOR A MOTOR
ASSOCIATED MOUNTING METHOD	BLONDIAU, Jonathan	VEHICLE AND METHOD FOR
(73) SpeedInnov	(51) B61L 15/00	PRODUCING A STEERING COLUMN
(72) LURGO, Laurent	B61L 25/02	(73) thyssenkrupp AG
YAKUBOVICH-HUGON, Tatiana		thyssenkrupp Presta AG

(72) HUBER, Sebastian RIST, Sascha SPECHT, Jean-Pierre	(72) TANIGUCHI, Hiroki	(72) MAIER, Stefan
(31) 102017207561	(51) B62D 6/04	TRUMMER, Peter
(32) 05.05.2017	B60W 30/12	KAUFMANN, Stefan
(33) Germany	B62D 15/02	(51) B62D 43/04
(51) B62D 1/184	G08G 1/16	(11) EP3746350
(11) EP3328711	(11) EP3611077	(21) EP18811943.2
(21) EP16751696.2	(21) EP17905119.8	(47) 09.02.2022
(47) 09.02.2022	(47) 09.02.2022	(87) TR2018050086
(87) TR2016050237	(87) JP2017015392	12.09.2019
02.02.2017	18.10.2018	(22) 08.03.2018
(22) 26.07.2016	(22) 14.04.2017	(54) SPARE TIRE WINCH WITH
(54) HYDRAULIC POWER STEERING	(54) VEHICLE CONTROL METHOD AND	AUTOGENOUS TIRE LOWERING
SYSTEM WITH VARIABLE	VEHICLE CONTROL DEVICE	MECHANISM AND LOCK
DISPLACEMENT HYDRAULIC	(73) Nissan Motor Co., Ltd.	(73) Cavo Otomotiv Ticaret Ve Sanayi Anonim
DISTRIBUTOR FOR MODULAR	(72) FUKATA, Osamu	Sirketi
TRAILERS	AKAMATSU, Yuta	(72) Saritas, Umur Sezer
(73) Tirsan Treyler Sanayi Ve Ticaret Anonim	TAIRA, Yasuhisa	Yilmaz, Mustafa
Sirketi	KOBAYASHI, Masahiro	Yalcin, Erol Can
(72) HASCELIK, Safak	SATO, Ko	Dede, Nil Nisa
OGUZ, Oguzhan	(51) B62D 15/02	Cicek, Ovgu Yagiz
(31) 201509265	B60R 25/24	(51) B62D 49/06
(32) 27.07.2015	G06F 3/03	B62D 21/02
(33) Turkey	G06Q 20/32	B62D 21/18
(51) B62D 1/184	G06K 9/00	B62D 33/063
(11) EP3623260	G06K 19/06	B60B 35/10
(21) EP19196840.3	(11) EP3728000	A01B 79/00
(47) 09.02.2022	(21) EP18829289.0	(11) EP3116768
(22) 12.09.2019	(47) 09.02.2022	(21) EP14843197.6
(54) DEVICE FOR LOCKING A STEERING	(87) EP2018085145	(47) 09.02.2022
COLUMN IN POSITION, AND	27.06.2019	(87) EP2014003465
ASSOCIATED STEERING COLUMN	(22) 17.12.2018	25.06.2015
ASSEMBLY	(54) METHOD FOR MOBILE PARKING	(22) 23.12.2014
(73) Fuji Autotech France SAS	ASSISTANCE APPARATUS	(54) TRACTOR WITH DYNAMICALLY
(72) COLEY, Pascal	(73) Continental Automotive GmbH	VARIABLE TRACK WIDTH
TOMASINO, Hervé	(72) BIEGER, Stefan	(73) H2Trac B.V.
(31) 1858168	(31) 102017223607	(72) VAN HAM, Paulus, Wilhelmus, Maria
(32) 12.09.2018	(32) 21.12.2017	(31) 1040560
(33) France	(33) Germany	(32) 20.12.2013
(51) B62D 1/22	(51) B62D 21/11	(33) Netherlands
(11) EP3587218	B62D 21/15	(51) B62D 55/21
(21) EP19175931.5	B62D 25/20	G01M 17/03
(47) 09.02.2022	B62D 25/08	B62D 55/32
(22) 22.05.2019	B60K 1/04	G01N 25/72
(54) SYSTEM FOR MOTOR VEHICLE WITH	(11) EP3608208	H01L 35/32
TWO STEERING WHEELS	(21) EP18798406.7	F16G 13/18
(73) MAN Truck & Bus SE	(47) 09.02.2022	(11) EP3429911
(72) Stastny, Christian	(87) JP2018017465	(21) EP17767306.8
Artmayr, Robert	15.11.2018	(47) 09.02.2022
(31) 1822018	(22) 01.05.2018	(87) US2017022242
(32) 25.06.2018	(54) REAR BODY STRUCTURE FOR	21.09.2017
(33) Austria	VEHICLES	(22) 14.03.2017
(51) B62D 6/00	(73) Mazda Motor Corporation	(54) TRACK PIN COMMUNICATION
B62D 5/04	(72) HIRAKAWA, Taichi	SYSTEM AND METHOD
B62D 137/00	KUBOTA, Harumitsu	(73) Caterpillar Inc.
B62D 15/02	NAKAYAMA, Nobuyuki	(72) STEKETEE, Brian B.
B62D 5/00	ISSHIKI, Yasunori	BAARMAN, David W.
(11) EP3725644	MORIMOTO, Makoto	STEPHENS, Kevin
(21) EP17934673.9	(31) 2017092586	(31) 201662307819 P
(47) 09.02.2022	(32) 08.05.2017	(32) 14.03.2016
(87) JP2017044617	(33) Japan	(33) United States of America
20.06.2019	(51) B62D 29/00	(51) B62D 55/253
(22) 12.12.2017	(11) EP3653473	B62D 55/28
(54) VEHICLE STEERING CONTROL	(21) EP18206227.3	(11) EP3578447
METHOD AND VEHICLE STEERING	(47) 09.02.2022	(21) EP19178140.0
CONTROL DEVICE	(22) 14.11.2018	(47) 09.02.2022
(73) Nissan Motor Co., Ltd	(54) HYBRID COMPONENT	(22) 04.06.2019
	(73) MAGNA STEYR Fahrzeugtechnik AG &	(54) CROSS-LINK FOR TRACKS OF SNOW
	Co KG	GROOMERS

(73) PRINOTH S.p.A.	12.10.2017	(33) Italy
(72) MAURER, Gregor KIRCHMAIR, Martin	(22) 05.04.2017	(51) B63H 3/00
(31) 201800006088	(54) TURRET MOORING SYSTEM	F16F 1/02
(32) 06.06.2018	ARRANGEMENT	(11) EP3519292
(33) Italy	(73) Single Buoy Moorings Inc.	(21) EP16794734.0
(51) B62H 1/04	(72) BONNAFFOUX, Guillaume	(47) 09.02.2022
B62H 1/06	FOURDILIS, Nicolas	(87) IB2016055904
(11) EP3326893	(31) 16164045	12.04.2018
(21) EP17202785.6	(32) 06.04.2016	(22) 03.10.2016
(47) 09.02.2022	(33) European Patent Office (EPO)	(54) NAUTICAL PROPELLER
(22) 21.11.2017	(51) B63B 27/14	(73) Bianchi, Massimiliano
(54) STAND FOR TWO-WHEELED	(11) EP3578452	(72) Bianchi, Massimiliano
VEHICLES	(21) EP19172467.3	(51) B63H 20/24
(73) Candelo, Isabella	(47) 09.02.2022	B63H 20/28
Candelo, Carolina	(22) 03.05.2019	F01P 3/20
(72) CANDELO, ROBERTO	(54) MOBILE AND FOLDABLE PLATFORM	F01P 7/16
(31) 201600119668	FOR BOATS	F02B 61/04
(32) 25.11.2016	(73) B. FINANCIAL S.r.l.	(11) EP3472043
(33) Italy	(72) BESENZONI, Giorgio	(21) EP16906486.2
(51) B62J 7/04	(31) 201800006108	(47) 09.02.2022
B62J 1/28	(32) 07.06.2018	(87) US2016063857
B62J 1/08	(33) Italy	28.12.2017
(11) EP3643590	(51) B63B 27/36	(22) 28.11.2016
(21) EP18202011.5	B63B 23/26	(54) OUTBOARD-MOTOR CLOSED-LOOP
(47) 09.02.2022	(11) EP3753841	COOLER SYSTEM
(22) 23.10.2018	(21) EP20000216.0	(73) Provost, Brian
(54) ADJUSTABLE STRUCTURE FOR REAR	(47) 09.02.2022	(72) Provost, Brian
SEAT OF BICYCLE	(22) 16.06.2020	(31) 201615188243
(73) Eli International Enterprise Co., LTD.	(54) TRANSLATION SYSTEM FOR AN	201615188204
Cheng Chen, Pao-Chin	OUTBOARD AND INBOARD TENDER	(32) 21.06.2016
(72) CHENG, Yuan Lin	WITH RESPECT TO A GARAGE OF A	21.06.2016
(51) B62K 15/00	SHIP	(33) United States of America
B62K 3/00	(73) SETEC S.p.A.	United States of America
(11) EP3623272	(72) Seminatore, Fabio	(51) B64C 3/28
(21) EP17910267.8	(31) 201900009174	(11) EP3838744
(47) 09.02.2022	(32) 17.06.2019	(21) EP19383133.6
(87) CN2017101243	(33) Italy	(47) 09.02.2022
22.11.2018	(51) B63B 35/44	(22) 18.12.2019
(22) 11.09.2017	B63B 19/00	(54) LEADING EDGE FOR AN AIRFOIL
(54) FOLDING MECHANISM AND	B63B 29/02	(73) Airbus Operations, S.L.U.
SCOOTER	B63B 39/02	(72) GÓMEZ DEL VALLE, Javier Carlos
(73) Ninebot (Beijing) Tech Co., Ltd.	B63B 35/00	BALSA GONZÁLEZ, Alberto
(72) LOU, Yi	(11) EP3552946	(51) B64C 9/00
LI, Xingle	(21) EP17878577.0	B64C 9/32
LIN, Ji	(47) 09.02.2022	B29C 70/44
(31) 201710344909	(87) KR2017014104	(11) EP3286078
(32) 16.05.2017	14.06.2018	(21) EP16720996.4
(33) China	(22) 04.12.2017	(47) 09.02.2022
(51) B62K 19/40	(54) SUBMERGED-FLOATING TYPE WATER	(87) AT2016050107
B62H 1/02	HOUSE	27.10.2016
(11) EP3590802	(73) Lee, Young Seok	(22) 22.04.2016
(21) EP19184367.1	(72) Lee, Young Seok	(54) CONTROL SURFACE ELEMENT
(47) 09.02.2022	(31) 20160165266	(73) FACC AG
(22) 04.07.2019	(32) 06.12.2016	(72) STEPHAN, Walter
(54) BICYCLE WITH KICKSTAND AND	(33) Korea (Republic)	FILSEGGER, Hermann
DROPOUT OF A BICYCLE FRAME	(51) B63B 39/06	(31) 503322015
(73) Hebie GmbH & Co. KG	(11) EP3400165	(32) 24.04.2015
(72) Ronge, Peter	(21) EP16838073.1	(33) Austria
(31) 202018103821 U	(47) 09.02.2022	(51) B64C 9/16
(32) 04.07.2018	(87) IT2016000297	(11) EP3670330
(33) Germany	13.07.2017	(21) EP19215854.1
(51) B63B 21/50	(22) 16.12.2016	(47) 09.02.2022
(11) EP3439948	(54) METHOD FOR ATTENUATING THE	(22) 12.12.2019
(21) EP17717107.1	OSCILLATION OF A SHIP	(54) AIRCRAFT FLAP DEPLOYMENT
(47) 09.02.2022	(73) P.S.C. Engineering	SYSTEM
(87) EP2017058130	(72) CRUPI, Santino	(73) Bombardier Inc.
	(31) UB20169851	(72) TFAILY, Ali
	(32) 07.01.2016	

(31) 201862782754 P	(54) AIRCRAFT MONUMENT, AIRCRAFT	(54) SEALING TOOL AND METHOD FOR
(32) 20.12.2018	GALLEY, AIRCRAFT, AND METHOD	SEALING TRAYS
(33) United States of America	OF OPERATING AN AIRCRAFT	(73) MULTIVAC Sepp Haggenmüller SE & Co.
(51) B64C 11/20	MONUMENT	KG
F01D 5/28	(73) Airbus Operations GmbH	(72) ZEDELMAIER, Thomas
B64C 11/14	(72) Gonnensen, Johannes	MADER, Andreas
(11) EP3750798	(51) B64D 11/06	(31) 102019206280
(21) EP20182391.1	B60N 3/00	(32) 02.05.2019
(47) 09.02.2022	(11) EP3341291	(33) Germany
(22) 13.07.2017	(21) EP16719699.7	(51) B65B 9/02
(54) PROTECTION OF PROPELLER	(47) 09.02.2022	B65B 63/02
COMPONENTS	(87) US2016028616	B65D 75/30
(73) Ratier-Figeac SAS	02.03.2017	B65D 75/52
(72) SEMINEL, Bruno	(22) 21.04.2016	(11) EP3774548
(51) B64C 25/12	(54) TRAY TABLE ARMS WITH ROTATION	(21) EP18913271.5
B64C 25/14	STOPPER OVERRIDE	(47) 09.02.2022
(11) EP3342703	(73) Safran Seats USA LLC	(87) TR2018050192
(21) EP17210957.1	(72) VALDES, Armando	10.10.2019
(47) 09.02.2022	IZZO, Melinda A.	(22) 27.04.2018
(22) 28.12.2017	MALLIGERE, Girish J.	(54) PACKAGING MACHINE HAVING A
(54) LANDING GEAR WITH THREADLESS	WILLEY, Michael	MODULAR COATING UNIT
CARDAN JOINT	CREED, Kevin	(73) Elektroteks Elektronik Tekstil Sanayi Ve
(73) Safran Landing Systems Canada Inc.	THORNHILL, Shaka	Ticaret Limited Sirketi
(72) SCHMIDT, Robert Kyle	CHANG, Naintzu	(72) GULER, Serkan
(31) 201615396195	MURRAY, Michael T.	OZEN, Murat
(32) 30.12.2016	(31) 201562217265 P	(31) 201804542
(33) United States of America	201562209252 P	(32) 01.04.2018
(51) B64C 27/00	(32) 11.09.2015	(33) Turkey
(11) EP3566945	24.08.2015	(51) B65B 9/087
(21) EP19161620.0	(33) United States of America	B65B 39/12
(47) 09.02.2022	United States of America	B65B 39/14
(22) 08.03.2019	(51) B64D 11/06	B65B 43/60
(54) MULTIPLE DEGREE OF FREEDOM	B60N 3/00	B65B 41/18
VIBRATION SUPPRESSION SYSTEM	(11) EP3757008	(11) EP3628601
FOR CONTROLLING VIBRATIONS	(21) EP19215456.5	(21) EP19198328.7
INDUCED BY A MAIN ROTOR WAKE	(47) 09.02.2022	(47) 09.02.2022
ON TAILS SURFACES OF A ROTARY	(22) 12.12.2019	(22) 19.09.2019
WING AIRCRAFT	(54) BRAKING TABLE SYSTEM FOR AN	(54) FILLING AND PACKAGING MACHINE
(73) Sikorsky Aircraft Corporation	AIRCRAFT	(73) Shibuya Packaging System Corporation
(72) WELSH, William A.	(73) B/E Aerospace, Inc.	(72) Imaoka, Norio
MONICO, Michael Robert	(72) FROST, Ian L.	Sawada, Kiyoshi
(31) 201815977821	KUYPER, John R.	Hosho, Akira
(32) 11.05.2018	(31) 201916456110	(31) 2018178536
(33) United States of America	(32) 28.06.2019	(32) 25.09.2018
(51) B64D 1/12	(33) United States of America	(33) Japan
B64D 1/22	(51) B64F 1/22	(51) B65B 11/58
(11) EP3720768	B64F 1/10	B65B 49/08
(21) EP18815150.0	(11) EP3732105	B65B 51/06
(47) 09.02.2022	(21) EP18842574.8	B65B 11/04
(87) EP2018083352	(47) 09.02.2022	B65B 55/00
13.06.2019	(87) IB2018060674	B65B 61/06
(22) 03.12.2018	04.07.2019	B65B 61/26
(54) DEVICE FOR THE EMERGENCY	(22) 28.12.2018	(11) EP3728048
MANUAL CONTROL OF A REMOTE	(54) GROUND MANEUVER ASSISTANCE	(21) EP18816096.4
SYSTEM	SYSTEM FOR AIRCRAFT	(47) 09.02.2022
(73) Lace	(73) Oujamaa, Mohamed	(87) EP2018085319
(72) LACHEVRE, Paul	(72) Oujamaa, Mohamed	27.06.2019
MAINGUIN, Patrick	(31) 100634	(22) 17.12.2018
(31) 1761791	(32) 29.12.2017	(54) MACHINE AND METHOD FOR
(32) 07.12.2017	(33) Luxembourg	PACKAGING BY AT LEAST ONE
(33) France	(51) B65B 7/16	STERILISATION PACKAGING
(51) B64D 11/04	B65B 9/04	MATERIAL
B64D 11/00	B65B 31/02	(73) Sterimed SAS
(11) EP3248873	B65B 31/04	(72) LEBRETTE, Laurent
(21) EP16171140.3	(11) EP3733528	AUFFRAY, Clémentine
(47) 09.02.2022	(21) EP20163626.3	SIMON, Christophe
(22) 24.05.2016	(47) 09.02.2022	(31) 1762381
	(22) 17.03.2020	(32) 18.12.2017

(33) France	GUT, Tobias	(87) JP2018005846
(51) B65B 13/02	(31) 102019113177	23.08.2018
B65B 13/18	(32) 17.05.2019	(22) 20.02.2018
B65B 13/32	(33) Germany	(54) TROUBLE RECOVERY METHOD FOR
B65B 13/22	(51) B65B 25/00	ASEPTIC FILLING MACHINE, AND
B65B 65/02	B65B 35/30	ASEPTIC FILLING MACHINE
(11) EP3490887	B65B 35/36	(73) DAI NIPPON PRINTING CO., LTD.
(21) EP17772523.1	B65B 57/10	(72) HAYAKAWA, Atsushi
(47) 09.02.2022	(11) EP3733535	ITO, Shuta
(87) US2017050473	(21) EP20172334.3	(31) 2017029251
22.03.2018	(47) 09.02.2022	(32) 20.02.2017
(22) 07.09.2017	(22) 30.04.2020	(33) Japan
(54) STRAPPING APPARATUS	(54) METHOD AND APPARATUS	(51) B65B 59/00
(73) Signode Industrial Group LLC	FOR BOXING ICE CREAM TYPE	B65B 59/04
(72) NEESER, Mirco	PRODUCTS	B65G 21/10
TAKIDIS, Dimitrios	(73) CT PACK S.r.l.	B65G 41/00
KELLER, Andreas	(72) MEZZARO, Daniele	(11) EP3808668
(31) 12132016	ROSIGNOLI, David	(21) EP20200197.0
(32) 18.09.2016	BONAZZA, Alberto	(47) 09.02.2022
(33) Switzerland	(31) 201900006492	(22) 06.10.2020
(51) B65B 13/02	(32) 02.05.2019	(54) DEVICE FOR HANDLING ITEMS
B65B 13/22	(33) Italy	TO BE PACKAGED AND METHOD
B65B 13/32	(51) B65B 39/00	FOR ADAPTING A DEVICE FOR
(11) EP3730415	(11) EP3587288	TRANSPORTING ITEMS FOR
(21) EP20170950.8	(21) EP19181744.4	PACKAGING
(47) 09.02.2022	(47) 09.02.2022	(73) Kronen Aktiengesellschaft
(22) 22.04.2020	(22) 21.06.2019	(72) WERNER, Jürgen
(54) STRAPPING MACHINE	(54) UNITARY DISPENSING NOZZLE FOR	WITTMANN, Stephan
(73) Itatools S.r.l.	CO-INJECTION OF TWO OR MORE	LUBER, Johann
(72) FINZO, Flavio	LIQUIDS AND METHOD OF USING	SPINDLER, Herbert
(31) 201900006286	SAME	(31) 102019128024
(32) 24.04.2019	(73) The Procter & Gamble Company	(32) 17.10.2019
(33) Italy	(72) D'HAESELEER, Ilse Maria Cyrilla	(33) Germany
(51) B65B 13/18	ZHANG, Qi	(51) B65B 65/00
B65B 13/22	GUIDA, Vincenzo	B65B 57/14
B65B 13/24	CACCIATORE, Justin Thomas	B65B 35/24
B65B 57/00	GU, Chong	(11) EP3720776
(11) EP3696102	CAPECI, Scott William	(21) EP18815154.2
(21) EP19157442.5	NG, Boon Ho	(47) 09.02.2022
(47) 09.02.2022	(31) PCT/CN2018/092087	(87) EP2018083419
(22) 15.02.2019	(32) 21.06.2018	13.06.2019
(54) STRAPPING DEVICE	(33) World Intellectual Property Office (WIPO)	(22) 04.12.2018
(73) TITAN Umreifungstechnik GmbH &	(51) B65B 41/12	(54) PACKAGING LINE FOR PRE-FILLED
Co.KG	B65H 19/12	SYRINGES AND AUTOMATED
(72) BRETTSCHEIDER, Kay	(11) EP3612481	PACKAGING PROCESS
PROTZMANN, Bastian	(21) EP18720125.6	(73) Bausch + Ströbel Maschinenfabrik
NÖLKE, Christian	(47) 09.02.2022	Ilshofen GmbH + Co. KG
HORCH, Nils	(87) EP2018059211	F. Hoffmann-La Roche AG
(51) B65B 17/02	25.10.2018	(72) EMMERT, Wolfgang
B65B 27/04	(22) 11.04.2018	MAHLER, Jürg
(11) EP3738896	(54) CONSUMABLE-MATERIAL HANDLING	FELDER, Marcel
(21) EP20172988.6	DEVICE FOR TRANSPORTING	SCHAFFNER, Patrick
(47) 09.02.2022	AND/OR HANDLING AT LEAST	KÄSER, Jürg
(22) 05.05.2020	ONE CONSUMABLE MATERIAL, IN	MEIER, Reto
(54) PACKAGING DEVICE FOR GROUPS	PARTICULAR PACKAGING MATERIAL	(31) 14692017
OF ARTICLES AND METHOD FOR	(73) Syntegon Packaging Systems AG	(32) 04.12.2017
APPLYING A CARTON BLANK TO A	(72) WIPF, Alfred	(33) Switzerland
GROUP OF ARTICLES	(31) 102017206549	(51) B65D 1/02
(73) Kronen Aktiengesellschaft	(32) 19.04.2017	(11) EP3215426
(72) WESTERMEIER, Christian	(33) Germany	(21) EP15808799.9
BEER, Erhard	(51) B65B 55/02	(47) 09.02.2022
ESCHLBECK, Richard	B65B 55/04	(87) IB2015058644
GABLER, Markus	B67C 7/00	12.05.2016
STADLER, Thomas	B65B 55/10	(22) 09.11.2015
KIRZINGER, Johannes	B29C 49/42	(54) A THERMOPLASTIC PREFORM FOR A
SPINDLER, Herbert	(11) EP3584181	WIDE-MOUTH CONTAINER
KOLLMUSS, Manuel	(21) EP18754620.5	(73) S.I.P.A. Società Industrializzazione
HUBER, Wolfgang	(47) 09.02.2022	Progettazione e Automazione S.p.A.

(72) MANUNTA, Mauro ZANETTE, Dino Enrico ZOPPAS, Matteo	(31) 2018902017 (32) 05.06.2018 (33) Australia	12.10.2017 (22) 03.04.2017 (54) TUBE CLOSURE
(31) RM20140653 (32) 07.11.2014 (33) Italy	(51) B65D 5/36 A61B 50/33 A61J 1/00 B65D 85/24 B65D 5/50	(73) Harding, Edward (72) Harding, Edward (31) 201605660 (32) 04.04.2016 (33) United Kingdom
(51) B65D 1/02 B65D 79/00 (11) EP3145822 (21) EP15724593.7 (47) 09.02.2022 (87) EP2015060946 26.11.2015 (22) 19.05.2015 (54) HEAT RESISTANT AND BIAXIALLY STRETCHED BLOW-MOLDED PLASTIC CONTAINER HAVING A BASE MOVABLE TO ACCOMMODATE INTERNAL VACUUM FORCES AND ISSUED FROM A DOUBLE-BLOW PROCESS	(37) EP3390238 (21) EP16876668.1 (47) 09.02.2022 (87) US2016066894 22.06.2017 (22) 15.12.2016 (54) COLLAPSIBLE MEDICAL CONTAINERS (73) Ramos, Miguel David (72) Ramos, Miguel David (31) 201662344778 P 201562269907 P (32) 02.06.2016 18.12.2015 (33) United States of America United States of America	(51) B65D 77/06 (11) EP3720784 (21) EP18834069.9 (47) 09.02.2022 (87) IT2018000142 13.06.2019 (22) 26.10.2018 (54) DELIVERING TAP EQUIPPED WITH INTERNAL SILICONE VALVE WITH LIQUID- SEALING AND TAMPER- PREVENTING SYSTEMS (73) Vitop Moulding S.R.L. (72) NINI, Diego (31) 201700140741 (32) 06.12.2017 (33) Italy
(73) Plastipak BAWT S.à.r.l. (72) DESSAINT, Alain DECKERS, Jan VAN DIJCK, Sam	(51) B65D 6/22 B65D 21/032 B65D 6/18 B65D 21/02 (11) EP3466823 (21) EP17802156.4 (47) 09.02.2022 (87) CN2017085565 30.11.2017 (22) 23.05.2017 (54) FOLDING BOX (73) Shanghai Hongyan Returnable Transit Packagings Co., Ltd. (72) SU, Yongping (31) 201610349670 (32) 24.05.2016 (33) China	(51) B65D 77/20 (11) EP3713847 (21) EP18822136.0 (47) 09.02.2022 (87) IB2018059028 31.05.2019 (22) 16.11.2018 (54) CLOSURE MEMBER FOR A FOOD CONTAINER (73) Smilesys S.p.A. (72) ZANARELLA, Claudio Ernestino (31) 201700133121 (32) 21.11.2017 (33) Italy
(31) 14169671 (32) 23.05.2014 (33) European Patent Office (EPO)	(51) B65D 1/02 F16K 24/06 B65D 83/00 (11) EP3444194 (21) EP17782342.4 (47) 09.02.2022 (87) JP2017014651 19.10.2017 (22) 10.04.2017 (54) METHOD FOR MANUFACTURING A DELAMINATABLE CONTAINER (73) Kyoraku Co., Ltd. (72) TARUNO, Shinsuke EGUCHI, Tetsuaki MUROYA, Yosuke	(51) B65D 83/08 (11) EP3710378 (21) EP18804140.4 (47) 09.02.2022 (87) IB2018058804 23.05.2019 (22) 09.11.2018 (54) PACKAGE FOR STACKED ARTICLES AND METHOD FOR ITS MANUFACTURE (73) T.M.C. S.p.A. (72) CATTANI, Mauro (31) 201700130088 (32) 14.11.2017 (33) Italy
(31) 2016193508 2016112186 2016082447 (32) 30.09.2016 03.06.2016 15.04.2016 (33) Japan Japan Japan	(51) B65D 23/08 B65D 77/06 (11) EP3724092 (21) EP18833932.9 (47) 09.02.2022 (87) FR2018053272 20.06.2019 (22) 13.12.2018 (54) BOTTLE IN PARTICULAR FOR BEVERAGES, IN PARTICULAR FOR ALCOHOLIC BEVERAGES, OR FOR COSMETIC PRODUCTS OR FRAGRANCES (73) Green Gen Technologies (72) LAURENT, Séverine DE GAVELLE DE ROANY, James (31) 1762244 (32) 15.12.2017 (33) France	(51) B65D 85/804 (11) EP3152134 (21) EP15736614.7 (47) 09.02.2022 (87) IB2015054074 10.12.2015 (22) 29.05.2015 (54) REINFORCEMENT RING FOR CAPSULES FOR OBTAINING BEVERAGES (73) Rapparini, Gino (72) Rapparini, Gino (31) BO20140325 (32) 04.06.2014
(51) B65D 1/16 B65D 3/04 B65D 3/06 B65D 5/36 (11) EP3762301 (21) EP18804231.1 (47) 09.02.2022 (87) EP2018078354 12.12.2019 (22) 17.10.2018 (54) COLLAPSIBLE ARTICLE COMPRISING A PLURALITY OF FOLDABLY INTERCONNECTED FOLDABLE SECTIONS (73) Hyperfold Ltd. (72) ZAHARINOV, Petar	(51) B65D 75/58 B65D 1/02 B65D 47/06 B65D 51/18 B67C 3/28 (11) EP3439984 (21) EP17716009.0 (47) 09.02.2022 (87) GB2017050935	

(33) Italy	(54) ROBOTIC STORAGE AND RETRIEVAL SYSTEM	(73) ABB Schweiz AG
(51) B65D 88/02	(73) Robert Bosch GmbH	(72) GU, Hao
B65D 88/16	(72) BOSATELLI, Simone	CHI, Zhaofu
E04H 17/04	KROEGER, Martin	YANG, Jibo
E04H 17/16	ROAN, Philip	(31) 201510617644
F41H 11/08	BHAT, Shilpa	(32) 24.09.2015
(11) EP3560857	OSENTOSKI, Sarah	(33) China
(21) EP19167181.7	(31) 201462097407 P	(51) B65H 15/00
(47) 09.02.2022	(32) 29.12.2014	B65H 5/10
(22) 03.04.2019	(33) United States of America	(11) EP3763647
(54) RAZOR WIRE BARRIER	(51) B65G 1/04	(21) EP20184265.5
(73) Allied Tube & Conduit Corporation	H01L 21/677	(47) 09.02.2022
(72) SAMARA, Carmen	(11) EP3533728	(22) 06.07.2020
HOWE, William Tyler	(21) EP17863648.6	(54) DEVICE AND METHOD FOR TURNING OVER AN INDIVIDUAL COATING SHEET FROM A STACK OF SHEETS
(31) 201862653789 P	(47) 09.02.2022	(73) Wemhöner Surface Technologies GmbH & Co. KG
(32) 06.04.2018	(87) JP2017034135	(72) Barth, Florian
(33) United States of America	03.05.2018	(31) 102019128972
(51) B65G 1/02	(22) 21.09.2017	102019118330
B65G 1/04	(54) OVERHEAD TRANSPORT VEHICLE	(32) 28.10.2019
(11) EP3625152	(73) Murata Machinery, Ltd.	06.07.2019
(21) EP18724889.3	(72) KOBAYASHI Makoto	(33) Germany
(47) 09.02.2022	(31) 2016208748	Germany
(87) EP2018062785	(32) 25.10.2016	(51) B65H 63/08
22.11.2018	(33) Japan	B65H 59/04
(22) 16.05.2018	(51) B65G 1/137	B65H 59/10
(54) MODULAR STORAGE SYSTEMS AND METHODS	(11) EP3724103	(11) EP3461772
(73) Ocado Innovation Limited	(21) EP18833468.4	(21) EP17001614.1
(72) CLARKE, Paul	(47) 09.02.2022	(47) 09.02.2022
LINDBO, Lars Sverker Ture	(87) FR2018053201	(22) 29.09.2017
INGRAM-TEDD, Andrew John	20.06.2019	(54) METHOD FOR THE OPTIMAL UTILIZATION OF THE WINDING ITEM DURING UNWINDING
(31) 201707922	(22) 11.12.2018	(73) Partzsch Spezialdrähte e.K.
(32) 17.05.2017	(54) METHOD FOR THE CENTRALIZED PALLETIZATION OF OBJECTS LEAVING PRODUCTION LINES	(72) Nitschmann, Remo
(33) United Kingdom	(73) Solystic	Zom, Andreas
(51) B65G 1/04	(72) CHIROL, Luc	Tauscher, Rene
(11) EP3634887	MIETTE, Emmanuel	(51) B66B 1/24
(21) EP18730629.5	(31) 1762205	B66B 5/00
(47) 09.02.2022	(32) 15.12.2017	(11) EP3560871
(87) AT2018060087	(33) France	(21) EP19170310.7
08.11.2018	(51) B65G 51/01	(47) 09.02.2022
(22) 03.05.2018	B08B 1/00	(22) 18.04.2019
(54) AUTOMATED STORAGE SYSTEM FOR SUSPENDED ITEMS, SUSPENSION BAGS WITH IMPROVED ACCESS, AND ITEM CONVEYING DEVICE AND OPERATING METHOD THEREFOR	(11) EP3728088	(54) ELEVATOR SYSTEM PASSENGER FRUSTRATION REDUCTION
(73) TGW Mechanics GmbH	(21) EP18819549.9	(73) Otis Elevator Company
(72) RAUSCH, Martin	(47) 09.02.2022	(72) TIWARI, Ankit
GROSSE, Eric	(87) FR2018053132	LIANO, Blanca Florentino
(31) 503732017	27.06.2019	AGRAWAL, Piyush
(32) 05.05.2017	(22) 06.12.2018	(31) 201815963320
(33) Austria	(54) METHOD AND DEVICE FOR GROUPING FLOATING ARTICLES INTO BATCHES, WITH DYNAMIC HYDRAULIC SUPERIMPOSITION OF THE ARTICLES	(32) 26.04.2018
(51) B65G 1/04	(73) MAF Agrobotic	(33) United States of America
B65G 1/06	(72) BLANC, Stéphane	(51) B66B 7/08
B25J 11/00	(31) 1763101	(11) EP3725725
B25J 5/00	(32) 22.12.2017	(21) EP19169840.6
B25J 19/00	(33) France	(47) 09.02.2022
F16H 19/04	(51) B65G 54/02	(22) 17.04.2019
G06K 7/10	(11) EP3353102	(54) ROPE GRIPPING MEMBER OF A HOISTING APPARATUS, ROPE GRIPPING DEVICE, TERMINAL ARRANGEMENT AND HOISTING APPARATUS
G06K 7/14	(21) EP16760683.9	(73) KONE Corporation
G06K 19/06	(47) 09.02.2022	(72) Helenius, Juha
G06K 19/07	(87) EP2016070230	Renvall, Jani
(11) EP3240741	30.03.2017	
(21) EP15876140.3	(22) 26.08.2016	
(47) 09.02.2022	(54) CONVEYING APPARATUS AND TRANSMITTING SYSTEM	
(87) US2015067812		
07.07.2016		
(22) 29.12.2015		

(51) B66B 13/26	(51) C01B 3/38	B01J 21/06
(11) EP3712100	H01M 8/04	B01J 23/22
(21) EP19213164.7	H01M 8/06	B01J 29/072
(47) 09.02.2022	H01M 8/10	(11) EP3717403
(22) 03.12.2019	H01M 8/12	(21) EP18782068.3
(54) ELEVATOR PASSENGER DETECTION SYSTEM	H01M 8/0612	(47) 09.02.2022
(73) Toshiba Elevator Kabushiki Kaisha	(11) EP3184488	(87) EP2018076916
(72) Kimura, Sayumi	(21) EP15834009.1	06.06.2019
Tamura, Satoshi	(47) 09.02.2022	(22) 03.10.2018
Noda, Shuhei	(87) JP2015004116	(54) PROCESS FOR THE PRODUCTION OF NITRIC ACID WITH TERTIARY ABATEMENT OF N2O AND NOX
Yokoi, Kentaro	25.02.2016	(73) Casale SA
(31) 2019049877	(22) 19.08.2015	(72) FRANCESCHIN, Giada
(32) 18.03.2019	(54) HYDROGEN GENERATOR, METHOD FOR OPERATING SAME AND FUEL CELL SYSTEM	CEREA, Iacopo
(33) Japan	(73) Panasonic Intellectual Property Management Co., Ltd.	OSTUNI, Raffaele
(51) B66D 3/18	(72) MIDORIKAWA, Yoichi	(31) 17204618
B66D 3/22	YASUDA, Shigeki	(32) 30.11.2017
(11) EP3140238	SHIMADA, Yasuaki	(33) European Patent Office (EPO)
(21) EP15717545.6	NARITA, Satoru	
(47) 09.02.2022	IYAMA, Shigeru	(51) C01B 39/48
(87) FR2015050689	ASO, Tomonori	C01B 37/00
12.11.2015	TAGUCHI, Kiyoshi	C01B 39/06
(22) 20.03.2015	(31) 2014168150	C01B 39/46
(54) ON-BOARD MODULAR HOIST	(32) 21.08.2014	C01B 39/12
(73) REEL	(33) Japan	C01B 39/08
(72) FIGOUREUX, David	(51) C01B 7/01	B01J 20/10
(31) 1454083	F17C 3/12	B01J 20/18
(32) 06.05.2014	C01B 7/07	B01J 29/06
(33) France	(11) EP3395759	B01J 20/30
(51) B66F 11/04	(21) EP16878305.8	B01J 29/04
B65G 65/00	(47) 09.02.2022	B01J 29/86
B65G 67/02	(87) JP2016085801	C07C 4/18
B65G 67/08	29.06.2017	C07C 11/06
B65G 67/20	(22) 01.12.2016	C07C 15/04
(11) EP3286127	(54) HYDROGEN CHLORIDE MIXTURE, METHOD FOR PRODUCING THE SAME, AND FILLING CONTAINER	(11) EP3640207
(21) EP16717446.5	(73) Showa Denko K.K.	(21) EP17913530.6
(47) 09.02.2022	(72) HOSHINO Yasuyuki	(47) 09.02.2022
(87) GB2016051062	TANIMOTO Yosuke	(87) CN2017108462
27.10.2016	(31) 2015249627	20.12.2018
(22) 15.04.2016	(32) 22.12.2015	(22) 31.10.2017
(54) TELESCOPIC BOOM CONVEYOR WITH OPERATOR PLATFORM	(33) Japan	(54) MOLECULAR SIEVE SCM-15, SYNTHESIS METHOD THEREFOR AND USE THEREOF
(73) Sovex Limited	(51) C01B 17/04	(73) Shanghai Research Institute of Petrochemical Technology, SINOPEC
(72) HENDERSON, Martin Neil	C01B 17/16	China Petroleum & Chemical Corporation
(31) 201506950	B01D 53/14	(72) LUO, Yi
(32) 23.04.2015	(11) EP3390276	YANG, Weimin
(33) United Kingdom	(21) EP16826792.0	SUN, Hongmin
(51) B81B 3/00	(47) 09.02.2022	ZHANG, Bin
H04R 7/20	(87) US2016066111	WANG, Zhendong
H04R 19/00	22.06.2017	(31) 201710440351
H04R 19/04	(22) 12.12.2016	(32) 13.06.2017
H04R 7/24	(54) THERMAL STAGE AND REDUCTION ABSORPTION SULFUR RECOVERY PROCESS	(33) China
H04R 31/00	(73) Saudi Arabian Oil Company	
(11) EP3390271	(72) O'CONNELL, John, P.	(51) C01G 23/04
(21) EP16808610.6	(31) 201562268110 P	B01J 20/28
(47) 09.02.2022	(32) 16.12.2015	B01J 20/30
(87) EP2016079941	(33) United States of America	B01J 35/00
22.06.2017	(51) C01B 21/26	B01J 35/02
(22) 06.12.2016	B01D 53/94	B01J 35/10
(54) CENTER-FIXED MEMS MICROPHONE MEMBRANE	C01B 21/02	C01G 23/053
(73) Robert Bosch GmbH	B01D 53/86	B01J 20/06
(72) BUCK, Thomas	B01J 29/76	B01J 21/06
DOLLER, Andy	B01J 35/00	B01J 37/00
ZHANG, Yujie	(11) EP3705455	(11) EP3705455
(31) 201514975097	(21) EP20171720.4	(21) EP20171720.4
(32) 18.12.2015	(47) 09.02.2022	(47) 09.02.2022
(33) United States of America	(22) 30.06.2015	(22) 30.06.2015

(54) METHOD FOR PRODUCING TITANIUM OXIDE FINE PARTICLES	C03B 25/10 C03B 37/10	C04B 35/80 C04B 35/584 C04B 35/58
(73) Ishihara Sangyo Kaisha, Ltd.	(11) EP3187470	C04B 35/565
(72) Kaji, Seiji Shimoita, Hironori Omori, Yurie	(21) EP16835195.5 (47) 09.02.2022 (87) JP2016073509	C04B 35/488 C04B 35/447
(31) 2014136810	16.02.2017	C04B 35/185
(32) 02.07.2014	(22) 10.08.2016	C04B 35/18
(33) Japan	(54) METHOD FOR MANUFACTURING OPTICAL FIBERS	C04B 35/14 B28B 23/00 C04B 35/626
(51) C02F 1/00 B67D 1/00 C02F 1/68 B67D 1/08	(73) Fujikura Ltd. (72) IMASE Akihito (31) 2015158823 (32) 11.08.2015 (33) Japan	D03D 1/00 D03D 11/00 D03D 25/00 (11) EP3359506
(11) EP3712104	(51) C03C 17/36	(21) EP16790654.4
(21) EP19164408.7	(11) EP2897918	(47) 09.02.2022
(47) 09.02.2022	(21) EP13779271.9	(87) FR2016052535
(22) 21.03.2019	(47) 09.02.2022	13.04.2017
(54) INTELLIGENT BEVERAGE DISPENSER	(87) FR2013052175	(22) 04.10.2016
(73) Riprup Company S.A.	27.03.2014	(54) PROCESS FOR THE
(72) Schucker, Josef Bissen, Monique	(22) 20.09.2013	MANUFACTURING OF A CERAMIC
(51) C02F 1/461 C02F 1/467	(54) SUBSTRATE PROVIDED WITH A STACK HAVING THERMAL PROPERTIES AND AN ABSORBENT LAYER	COMPOSITE PART BY INJECTION OF A LOADED SLURRY IN A POROUS MOULD
(11) EP3808709	(73) SAINT-GOBAIN GLASS FRANCE	(73) SAFRAN
(21) EP19203047.6	(72) JRIBI, Ramzi	SAFRAN AIRCRAFT ENGINES
(47) 09.02.2022	LORENZZI, Jean-Carlos	(72) HAIFI, Sofia
(22) 14.10.2019	(31) 1258867	PODGORSKI, Michael
(54) WATER DISINFECTION BY ELECTROLYSIS	(32) 21.09.2012	LIAIS, Ludovic Philippe
(73) Aguabel bv	(33) France	DROZ, Nicolas
(72) DESTOOP, Edouard DECLERCQ, Johan	(51) C03C 25/24	PAIXAO, Adrien
(51) C02F 9/00 B60R 15/00	C13K 1/00	(31) 1559430
(11) EP3812351	C08J 5/08	(32) 05.10.2015
(21) EP20203383.3	C09J 103/00	(33) France
(47) 09.02.2022	C09J 103/02	(51) C04B 35/628
(22) 22.10.2020	C03C 25/32	B22F 1/02
(54) WATER MANAGEMENT SYSTEM FOR A VEHICLE, CORRESPONDING METHOD AND VEHICLE EQUIPPED WITH SUCH A SYSTEM	C09D 4/00	B22F 3/02
(73) WeCo	C08J 5/04	B22F 9/14
ALSTOM Transport Technologies	C08J 5/24	B22F 1/00
(72) VOISEUX, Denis	C09D 103/02	C04B 35/653
DEKEUWER, Cécile	C09D 179/02	(11) EP3388407
MINEAU, Carine	C13B 20/14	(21) EP16873143.8
SAWADOGO, Hyacinthe	C13K 1/06	(47) 09.02.2022
FAIVRE, Anthony	D04H 1/4209	(87) JP2016086828
(31) 1911928	D04H 1/587	15.06.2017
(32) 24.10.2019	D04H 1/64	(22) 11.12.2016
(33) France	(11) EP3388401	(54) POWDER PARTICLES AND PROCESS FOR PRODUCING GREEN BODY USING SAME
(51) C03B 9/353	(21) EP18171285.2	(73) National University Corporation
(11) EP3601173	(47) 09.02.2022	Toyohashi University of Technology
(21) EP18713498.6	(22) 19.03.2010	(72) MUTO, Hiroyuki
(47) 09.02.2022	(54) METHOD USING AQUEOUS BINDER COMPOSITION FOR MINERAL FIBRES	KAWAMURA, Go
(87) US2018021435	(73) Rockwool International A/S	MATSUDA, Atsunori
27.09.2018	(72) HANSEN, Erling Lennart	MATSUSAKI, Tatsuya
(22) 08.03.2018	(31) 226123 P	(31) 2015242743
(54) OPERATING MECHANISM FOR A GLASSWARE FORMING MACHINE	09155654	(32) 11.12.2015
(73) Owens-Brockway Glass Container Inc.	(32) 16.07.2009	(33) Japan
(72) FLYNN, Robin, L.	19.03.2009	(51) C04B 37/02
(31) 201715463337	(33) United States of America	B23K 1/00
(32) 20.03.2017	European Patent Office (EPO)	B23K 1/19
(33) United States of America	(51) C04B 35/117	B23K 3/08
(51) C03B 37/027	F01D 5/28	F23Q 7/00
	D03D 15/00	F23Q 7/22
	B28B 7/34	(11) EP2376402
	B28B 1/26	(21) EP09806072.6
	B28B 1/24	(47) 09.02.2022

(87) DE2009001734 17.06.2010	C05F 17/50 C05F 17/964	C11B 9/00 (11) EP3596036
(22) 10.12.2009	C05F 17/10	(21) EP18710479.9
(54) METHOD OF PRODUCING METAL- CERAMIC BONDING	(11) EP3145898	(47) 09.02.2022
(73) Surface Igniter LLC a Delaware Limited Liability Company	(21) EP15732793.3	(87) EP2018056498 20.09.2018
(72) HEUBERGER Martin	(47) 09.02.2022	(22) 15.03.2018
(31) 102008061308	(87) FR2015051370 26.11.2015	(54) CYCLOHEXENE DERIVATIVES AS PERFUMING INGREDIENTS
(32) 11.12.2008	(22) 22.05.2015	(73) Firmenich SA
(33) Germany	(54) METHOD FOR TREATING A WASTE MIXTURE, INCLUDING SEPARATION AND COMPOSTING OF SAID MIXTURE	(72) BIRKBECK, Anthony, Alexander
(51) C04B 37/02	(73) Finance Developpement Environnement Charreyre - FIDEC	(31) 17161067
B23K 1/00	(72) CHARREYRE, Fabien, Michel, Alain	(32) 15.03.2017
B23K 1/19	(31) 1454708	(33) European Patent Office (EPO)
H01L 23/12	(32) 23.05.2014	(51) C07C 51/47
H01L 23/14	(33) France	C11B 3/10
H05K 3/20	(51) C05F 17/907	C11B 3/12
(11) EP3632880	C05F 17/964	C07C 51/44
(21) EP18809393.4	(11) EP3774694	B01D 15/08
(47) 09.02.2022	(21) EP19718427.8	A23D 9/02
(87) JP2018020489	(47) 09.02.2022	C11B 7/00
06.12.2018	(87) FR2019050609	C11C 1/00
(22) 29.05.2018	(2) 19.03.2019	(11) EP3118186
(54) CERAMIC CIRCUIT BOARD AND METHOD FOR PRODUCING SAME	(54) COMPOSTING DEVICE	(21) EP16184811.4
(73) Denka Company Limited	(73) Boudet, Christophe	(47) 09.02.2022
(72) NAKAMURA Takahiro	Ramond, Louis	(2) 11.12.2013
YUASA Akimasa	(72) Boudet, Christophe	(54) CHROMATOGRAPHIC FACILITY FOR PRODUCING POLYUNSATURATED FATTY ACIDS
NISHIMURA Kouji	Ramond, Louis	(73) Novasep Process
MORITA Shuhei	(31) 1852682	(72) NICOU, Roger- Marc
HARADA Yusaku	(32) 28.03.2018	BLEHAUT, Jean
(31) 2017106506	(33) France	(51) C07C 67/03
(32) 30.05.2017	(51) C05G 3/00	C07C 29/149
(33) Japan	C05D 3/02	C07C 67/38
(51) C04B 37/02	C05D 5/00	C07C 69/24
B23K 35/30	C05F 11/10	(11) EP3750866
C22C 5/06	C05G 5/30	(21) EP20178674.6
H01L 23/14	(11) EP2881380	(47) 09.02.2022
H05K 1/03	(21) EP12772343.5	(22) 08.06.2020
H05K 3/38	(47) 09.02.2022	(54) METHOD FOR MANUFACTURING ALCOHOL MADE OF HYDROCARBONS
(11) EP3632879	(87) ES2012070588	(73) Evonik Operations GmbH
(21) EP18809163.1	06.02.2014	(72) SCHÄPERTÖNS, Marc
(47) 09.02.2022	(22) 30.07.2012	FRIDAG, Dirk
(87) JP2018020490	(54) BIOSTIMULATING AND ELICITING COMPOSITION FOR USE IN AGRICULTURE	KNOSSALLA, Johannes
06.12.2018	(73) Blue Agro Bio Science S.L.	KUCMIERCZYK, Peter
(22) 29.05.2018	(72) EGUIA MENDIALDUA, Javier	GLUTH, Frederik
(54) CERAMIC CIRCUIT BOARD AND METHOD OF PRODUCTION	CENOZ IMAZ, Santiago	FRANKE, Robert
(73) Denka Company Limited	(51) C07C 17/20	(31) 19179572
(72) TSUGAWA Yuta	C07C 201/12	(32) 12.06.2019
HARADA Yusaku	(11) EP3696156	(33) European Patent Office (EPO)
NISHIMURA Kouji	(21) EP19195392.6	(51) C07C 69/587
IWAKIRI Shoji	(47) 09.02.2022	C07C 67/08
AONO Ryota	(22) 04.09.2019	C07C 67/03
(31) 2017106505	(54) NEW PROCESS FOR THE MANUFACTURE OF FLUOROARYL COMPOUNDS AND DERIVATIVES	C11C 3/02
(32) 30.05.2017	(73) Fujian Yongjing Technology Co., Ltd.	C11C 3/06
(33) Japan	(72) CUI, Weilong	(11) EP3208261
(51) C05F 17/00	Wu, Wenting	(21) EP15849916.0
B09B 3/00	Du, Hongjun	(47) 09.02.2022
B07B 13/04	(31) 102019103836	(87) CN2015000687 21.04.2016
B03B 9/06	(32) 15.02.2019	(22) 12.10.2015
B07B 1/18	(33) Germany	(54) METHOD FOR PREPARING GLYCERIDE TYPE POLYUNSATURATED FATTY ACIDS
B07B 1/24	(51) C07C 47/225	
B07B 1/46		
B07B 1/16		
C05F 17/986		
B07B 13/16		
C05F 9/00		

(73) Zhejiang Medicine Co., Ltd. Xinchang Pharmaceutical Factory	(51) C07C 273/04 B01D 47/10 C05C 9/00 C07C 273/02	(21) EP14710593.6 (47) 09.02.2022 (87) EP2014055428 25.09.2014
(72) XIANG, Xuebing LI, Chong SHAO, Bin XU, Xinde	(11) EP3233244 (21) EP15834726.0 (47) 09.02.2022 (87) NL2015050873 23.06.2016	(22) 18.03.2014 (54) NEW FAMILY OF DISCRIMINATING MOLECULES FOR NEUTRON AND GAMMA RAYS AND IONIC LIQUIDS
(31) 201410538808 (32) 13.10.2014 (33) China	(2) 17.12.2015 (54) REMOVAL OF DUST IN UREA FINISHING	(73) Université de Strasbourg Centre National de la Recherche Scientifique (C.N.R.S.)
(51) C07C 255/49 C07D 401/04 C07D 401/14 C07D 417/04 C07D 417/06 C07D 417/14 C07D 471/04 C07D 471/10 C07D 487/04 C07D 519/00 A61K 31/545 A61K 31/5517 A61K 31/513 A61P 35/00	(73) Stamicarbon B.V. (72) SCHOENMAKERS, Aloysius Mechteldis Emmanuel DOHERTY, Cain Christopher	(72) BOUAJILA, Ezeddine FOUCHET, Julien DOUCE, Laurent HEINRICH, Benoît STUTTGE, Louise
(11) EP3164380 (21) EP15814038.4 (47) 09.02.2022 (87) US2015038345 07.01.2016 (22) 29.06.2015 (54) INHIBITORS OF LYSINE SPECIFIC DEMETHYLASE-1	(31) 14199372 (32) 19.12.2014 (33) European Patent Office (EPO)	(31) 1352400 (32) 18.03.2013 (33) France
(73) Celgene Quantical Research, Inc. (72) STAFFORD, Jeffrey Alan VEAL, James Marvin NIE, Zhe KANOUNI, Toufike CHEN, Young K.	(51) C07D 213/73 C07D 213/75 C07D 401/14 C07D 498/14 A61K 31/5377 A61P 35/00	(51) C07D 233/64 A61K 31/4164 A61K 31/4196 C07D 249/08 A61P 17/00 A61P 29/00
(31) 201462020886 P (32) 03.07.2014 (33) United States of America	(11) EP3672941 (21) EP18759308.2 (47) 09.02.2022 (87) EP2018072788 28.02.2019 (2) 23.08.2018 (54) PYRIDYLPYRIDONE COMPOUNDS	(11) EP3455212 (21) EP17725905.8 (47) 09.02.2022 (87) EP2017061409 16.11.2017 (2) 11.05.2017 (54) INHIBITORS OF PROTEASE- ACTIVATED RECEPTOR-2
(51) C07C 269/04 B01J 23/00 B01J 21/00 B01J 23/06 B01J 23/10 B01J 23/75 B01J 23/755 B01J 23/80 B01J 23/83 B01J 35/00 B01J 37/03 B01J 37/08	(72) GINMAN, Tobias RAHM, Fredrik LINDSTRÖM, Johan VIKLUND, Jenny FORSBLOM, Rickard	(73) Heptares Therapeutics Limited (72) BROWN, Dean, Gordon CHEN, Hongming EDMAN, Karl, Henrik TEHAN, Benjamin, Gerald BROWN, Giles, Albert JOHNSTONE, Shawn, Donald BURLI, Roland, Werner TEOBALD, Barry, John CUMMING, John, Graham WU, Frank, Xinde CONGREVE, Miles, Stuart
(11) EP3630717 (21) EP18730875.4 (47) 09.02.2022 (87) IN2018050335 29.11.2018 (22) 25.05.2018 (54) A PROCESS FOR THE SYNTHESIS OF AROMATIC CARBAMATES	(31) 17187544 (32) 23.08.2017 (33) European Patent Office (EPO)	(31) 201662335496 P (32) 12.05.2016 (33) United States of America
(73) Council of Scientific and Industrial Research	(51) C07D 231/56 C07D 471/02 C07D 471/04	(51) C07D 239/72 C07D 403/04 A61K 31/517 A61K 31/506
(72) NIVANGUNE, Nayana Tushar RANE, Vilas Hari KELKAR, Ashutosh Anant	(11) EP3426637 (21) EP17764260.0 (47) 09.02.2022 (87) US2017021966 14.09.2017 (22) 10.03.2017 (54) COMPOUNDS AND METHODS FOR MODULATING BRUTON'S TYROSINE KINASE	(11) EP3448839 (21) EP17789904.4 (47) 09.02.2022 (87) KR2017004424 02.11.2017 (22) 26.04.2017 (54) QUINAZOLINE DERIVATIVE OR ITS SALT AND PHARMACEUTICAL COMPOSITION COMPRISING THE SAME
(31) 201711018554 (32) 26.05.2017 (33) India	(73) Angel Pharmaceutical Co., Ltd. (72) MILLER, Richard, A. VERNER, Erik BEAUSOLEIL, Anne-Marie HUDSON, Ryan	(73) Yuhan Corporation (72) KIM, Dong-Hoon CHOI, Su-Bin GAL, Ji-Young NAM, Su-Youn CHONG, Won-Ee
	(31) 201662342004 P 201662307399 P (32) 26.05.2016 11.03.2016 (33) United States of America United States of America	
	(51) C07D 233/58 C07D 403/04 G01T 1/02 (11) EP2976330	

JUNG, Eun-Hye	(22) 09.06.2015	KOMORI Ken-ichi
PARK, Jin-Hwi	(54) METABOTROPIC GLUTAMATE	SHINOHARA Masaru
KIM, Jong-Gyun	RECEPTOR NEGATIVE ALLOSTERIC	TOKUNAGA Yasunori
KANG, Ho-Woong	MODULATORS (NAMS) AND USES	NINOMIYA Akishi
PARK, Chan-Sun	THEREOF	KAWAGUCHI Tetsuo
KIM, Young-Hwan	(73) Sanford-Burnham Medical Research	KOJIMA Masahiro
HAN, Tae-Dong	Institute	USHIYAMA Shigeru
PARK, Jun-Chul	(72) RAVEENDRA-PANICKAR, Dhanya	(31) 2016255567
LEE, Eui-Chul	SHEFFLER, Douglas J.	(32) 28.12.2016
(31) 20160053033	COSFORD, Nicholas David Peter	(33) Japan
(32) 29.04.2016	(31) 201462009910 P	(51) C07D 401/06
(33) Korea (Republic)	(32) 10.06.2014	A61P 25/00
(51) C07D 239/86	(33) United States of America	A61K 9/00
C07D 239/82	(51) C07D 307/92	A61K 31/454
C07D 239/94	C07C 69/732	(11) EP3227273
C07D 403/02	C07C 69/738	(21) EP15808314.7
C07D 403/14	C07C 59/82	(47) 09.02.2022
A61K 31/505	(11) EP3634954	(87) US2015062985
(11) EP3567030	(21) EP18735729.8	09.06.2016
(21) EP17889371.5	(47) 09.02.2022	(22) 30.11.2015
(47) 09.02.2022	(87) NL2018050377	(54) COMPOSITIONS COMPRISING
(87) CN2017119993	13.12.2018	2-((1-(2-(4-FLUOROPHENYL)-2-
05.07.2018	(22) 08.06.2018	OXOETHYL)PIPERIDIN-4-
(22) 29.12.2017	(54) METHOD OF PRODUCING EPD AND	YL)METHYL)ISOINDOLIN-1-ONE FOR
(54) QUINAZOLINE COMPOUND FOR	ANALOGUES THEREOF	TREATING SCHIZOPHRENIA
EGFR INHIBITION	(73) Van Haaften, Caroline	(73) Minerva Neurosciences, Inc.
(73) Medshine Discovery Inc.	(72) Van Haaften, Caroline	(72) NOEL, Nadine
(72) LIU, Xile	(31) 2019035	WERNER, Sandra
DING, Charles Z.	(32) 08.06.2017	LUTHRINGER, Remy
WAN, Haiwen	(33) Netherlands	OKUYAMA, Masahiro
HU, Lihong	(51) C07D 317/38	(31) 201562248071 P
WU, Lingyun	(11) EP3724174	201462086691 P
CHEN, Shuhui	(21) EP18829226.2	(32) 29.10.2015
(31) 201611259071	(47) 09.02.2022	02.12.2014
(32) 30.12.2016	(87) EP2018084013	(33) United States of America
(33) China	20.06.2019	United States of America
(51) C07D 265/30	(22) 07.12.2018	(51) C07D 401/14
C07C 21/04	(54) METHOD FOR THE PRODUCTION	(11) EP3189045
C07C 21/17	OF GLYCERINE CARBONATE	(21) EP15832018.4
(11) EP3558952	METHACRYLATE	(47) 09.02.2022
(21) EP17822275.8	(73) BASF SE	(87) IN2015050086
(47) 09.02.2022	(72) MISSKE, Andrea	18.02.2016
(87) EP2017083804	KLUEGLEIN, Matthias	(22) 10.08.2015
28.06.2018	FLECKENSTEIN, Christoph	(54) NOVEL SALTS OF NILOTINIB AND
(22) 20.12.2017	(31) 17207791	POLYMORPHS THEREOF
(54) METHOD FOR THE MANUFACTURING	(32) 15.12.2017	(73) Sun Pharmaceutical Industries Limited
OF DELMOPINOL AND OF ITS	(33) European Patent Office (EPO)	(72) VALANCE SURENDRAKUMAR, Macwan
INTERMEDIATES	(51) C07D 401/04	SHRIPRAKASH DHAR, Dwivedi
(73) Lundbeck Pharmaceuticals Italy S.p.A.	A61K 31/4427	THENNATI, Rajamannar
(72) DE FAVERI, Carla	A61P 1/16	KILARU, Srinivasu
STIVANELLO, Mariano	A61P 13/12	(31) 2583MU2014
(31) 201600130729	C07D 405/14	(32) 11.08.2014
(32) 23.12.2016	C07D 491/107	(33) India
(33) Italy	(11) EP3564230	(51) C07D 401/14
(51) C07D 277/20	(21) EP17886109.2	A61K 31/498
C07D 417/04	(47) 09.02.2022	A61P 3/00
C07D 285/08	(87) JP2017046898	A61P 35/00
C07D 217/06	05.07.2018	A61P 43/00
C07D 249/08	(22) 27.12.2017	(11) EP3530655
A61K 31/426	(54) SUBSTITUTED GUANIDINE	(21) EP17861859.1
A61K 31/427	COMPOUND	(47) 09.02.2022
A61K 31/433	(73) UBE Industries, Ltd.	(87) JP2017037503
A61K 31/4196	(72) YAMADA Haruka	26.04.2018
(11) EP3154954	KIMURA Tomio	(22) 17.10.2017
(21) EP15806027.7	ITO Koji	(54) HETEROCYCLIC COMPOUND
(47) 09.02.2022	SHIRAIISHI Yusuke	(73) Takeda Pharmaceutical Company
(87) US2015034964	ITO Masaaki	Limited
17.12.2015	KAWADA Hiroyoshi	(72) KOJIMA Takuto

NAGAI Katsunori	ASMUS, Elisabeth	(47) 09.02.2022
HIRAKATA Masao	FRACKENPOHL, Jens	(87) IB2018051318
IMAMURA Shinichi	DIETRICH, Hansjörg	13.09.2018
(31) 2016204371	HEINEMANN, Ines	(22) 01.03.2018
(32) 18.10.2016	ROSINGER, Christopher Hugh	(54) CYCLIC SUBSTITUTED IMIDAZO[4,5-C]QUINOLINE DERIVATIVES
(33) Japan	BEFFA, Roland	(73) Pfizer Inc.
(51) C07D 401/14	GATZWEILER, Elmar	(72) STEPAN, Antonia Friederike
C07D 401/10	LÜMMEN, Peter	CHAPPIE, Thomas Allen
C07D 213/60	(31) 17208493	WAGER, Travis T.
C09K 11/06	(32) 19.12.2017	KORMOS, Bethany Lyn
H01L 51/50	(33) European Patent Office (EPO)	KURUMBAIL, Ravi G.
H05B 33/14	(51) C07D 405/12	HELAL, Christopher John
H01L 51/00	A01N 43/54	GARNSEY, Michelle Renee
(11) EP3724179	C07D 239/54	PETTERSSON, Martin Youngjin
(21) EP18830738.3	C07D 409/12	GALATSIS, Paul
(47) 09.02.2022	C07D 493/04	HENDERSON, Jaclyn Louise
(87) EP2018084138	C07D 493/08	MARTINEZ-ALSINA, Luis Angel
20.06.2019	A01P 13/00	(31) 201762469768 P
(22) 10.12.2018	A01P 21/00	(32) 10.03.2017
(54) ORGANIC MOLECULES FOR USE IN OPTOELECTRONIC DEVICES	(11) EP3728237	(33) United States of America
(73) cynora GmbH	(21) EP18815769.7	(51) C07D 471/04
(72) JOLY, Damien	(47) 09.02.2022	A61K 31/506
(31) 102017130249	(87) EP2018085263	A61P 35/00
(32) 15.12.2017	27.06.2019	(11) EP3353179
(33) Germany	(22) 17.12.2018	(21) EP16778538.5
(51) C07D 401/14	(54) SUBSTITUTED	(47) 09.02.2022
C07D 487/04	THIOPHENYLURACILS , THEIR SALTS	(87) US2016052538
C07D 491/048	AND USE OF SAID COMPOUNDS AS	30.03.2017
C07D 495/04	HERBICIDAL AGENTS	(22) 19.09.2016
H01L 51/00	(73) Syngenta Crop Protection AG	(54) HETEROCYCLIC COMPOUNDS AND USES THEREOF
C09K 11/06	(72) ASMUS, Elisabeth	(73) Plexikon Inc.
H05B 33/14	ROSINGER, Christopher Hugh	(72) POWELL, Ben
H05B 33/20	FRACKENPOHL, Jens	ZHANG, Jiazhong
(11) EP3728226	BEFFA, Roland	SPEVAK, Wayne
(21) EP18830742.5	MACHETTIRA, Anu Bheemaiah	SHI, Songyuan
(47) 09.02.2022	HEINEMANN, Ines	MA, Yan
(87) EP2018084183	WILLMS, Lothar	IBRAHIM, Prabha N.
27.06.2019	LÜMMEN, Peter	(31) 201562221508 P
(22) 10.12.2018	GATZWEILER, Elmar	(32) 21.09.2015
(54) ORGANIC MOLECULES FOR USE IN OPTOELECTRONIC DEVICES	DIETRICH, Hansjörg	(33) United States of America
(73) cynora GmbH	(31) 17208490	(51) C07D 471/04
(72) SZAFRANOWSKA, Barbara	(32) 19.12.2017	A61K 31/506
(31) 102017130814	(33) European Patent Office (EPO)	A61P 35/00
(32) 20.12.2017	(51) C07D 405/14	(11) EP3383875
(33) Germany	C07D 471/04	(21) EP16834200.4
(51) C07D 403/12	C07D 401/14	(47) 09.02.2022
A01N 43/54	A61K 31/535	(87) IN2016050426
C07D 401/12	A61P 35/00	08.06.2017
C07D 405/12	(11) EP3193881	(22) 30.11.2016
C07D 239/54	(21) EP15842092.7	(54) 3-PYRIMIDINYL PYRROLO [2,3-B] PYRIDINE AS ANTICANCER AGENTS AND THE PROCESS FOR THE PREPARATION THEREOF
C07D 413/12	(47) 09.02.2022	(73) Council Of Scientific & Industrial Research
A01P 13/00	(87) US2015050289	(72) SINGH, Parvinder Pal
A01P 21/00	24.03.2016	SINGH, Umed
(11) EP3728235	(22) 15.09.2015	GUDUP, Satish Sonbarao
(21) EP18816094.9	(54) HISTONE DEMETHYLASE INHIBITORS	VISHWAKARMA, Ram Asrey
(47) 09.02.2022	(73) Celgene Quantice Research, Inc.	ARURI, Hari Prasad
(87) EP2018085262	(72) STAFFORD, Jeffrey Alan	NARGOTRA, Amit
27.06.2019	CHEN, Young K.	THATIKONDA, Thanusha
(22) 17.12.2018	VEAL, James Marvin	MAHAJAN, Girish
(54) SUBSTITUTED	NIE, Zhe	CHASHOO, Gousia
THIOPHENYLURACILS , THEIR SALTS	(31) 201462051268 P	MONDHE, Dilip Manikrao
AND USE OF SAID COMPOUNDS AS	(32) 16.09.2014	MAHAJAN, Priya
HERBICIDAL AGENTS	(33) United States of America	
(73) Syngenta Crop Protection AG	(51) C07D 471/04	
(72) WILLMS, Lothar	A61K 31/4745	
MACHETTIRA, Anu Bheemaiah	A61P 25/28	
	(11) EP3592740	
	(21) EP18711175.2	

(31) 3893DE2015	VAN DEN KEYBUS, Frans, Alfons, Maria	LIU, Weizhong
(32) 30.11.2015	(31) 16196936	MO, Jijia
(33) India	(32) 02.11.2016	ZHAO, Yan
(51) C07D 487/04	(33) European Patent Office (EPO)	XU, Qinlong
A61K 31/5025	(51) C07D 487/04	(31) 201810007608
A61P 11/06	A61K 31/519	(32) 04.01.2018
A61P 29/00	A61P 43/00	(33) China
(11) EP3416967	(11) EP3366688	(51) C07F 9/54
(21) EP17705622.3	(21) EP18165005.2	C07F 9/572
(47) 09.02.2022	(47) 09.02.2022	C07C 211/63
(87) EP2017053576	(22) 08.12.2011	C09K 11/06
24.08.2017	(54) SUBSTITUTED	H01L 51/00
(22) 17.02.2017	PYRAZOLOPYRIMIDINES AS	H01L 51/50
(54) THERAPEUTIC COMPOUNDS, COMPOSITIONS AND METHODS OF USE THEREOF	GLUCOCEREBROSIDASE ACTIVATORS	C01G 45/06
(73) F. Hoffmann-La Roche AG	(73) The U.S.A. as represented by the Secretary, Department of Health and Human Services	(11) EP3476855
(72) KELLAR, Terry	(72) SIDRANSKY, Ellen	(21) EP17818981.7
GIBBONS, Paul	MARUGAN, Juan Jose	(47) 09.02.2022
ZAK, Mark	SOUTHALL, Noel	(87) CN2017085149
(31) 201662297061 P	WESTBROOK, Wendy	04.01.2018
(32) 18.02.2016	GOLDIN, M. Ehud	(22) 19.05.2017
(33) United States of America	PATNAIK, Samarjit	(54) MANGANESE (II) COMPLEX, PREPARATION METHOD THEREFOR, AND APPLICATION OF SAME IN ORGANIC LIGHT EMITTING DIODE
(51) C07D 487/04	MOTABAR, Omid	(73) Fujian Institute Of Research On The Structure Of Matter, Chinese Academy Of Sciences
A61K 31/505	ZHENG, Wei	(72) CHEN, Zhongning
A61K 31/519	(31) 42094610 P	XU, Liangjin
A61P 25/16	(32) 08.12.2010	WANG, Jinyun
A61P 35/00	(33) United States of America	(31) 201610487014
A61K 31/5025	(51) C07D 487/04	(32) 28.06.2016
(11) EP3766884	C07D 519/00	(33) China
(21) EP19793622.2	A61K 31/5377	(51) C07F 9/553
(47) 09.02.2022	A61P 35/00	A61K 45/06
(87) CN2019084822	(11) EP3475285	A61K 31/675
31.10.2019	(21) EP17814538.9	C07F 9/572
(22) 28.04.2019	(47) 09.02.2022	C07F 9/59
(54) CRYSTAL FORM AND SALT TYPE OF TRIAZOLOPYRIMIDINE COMPOUND AND PREPARATION METHOD THEREFOR	(87) CN2017084683	A61P 35/00
(73) Medshin Discovery Inc.	28.12.2017	(11) EP3268376
(72) CHEN, Zhaoguo	(22) 17.05.2017	(21) EP16712592.1
CHEN, Xinde	(54) MECHANISTIC TARGET OF RAPAMYCIN SIGNALING PATHWAY INHIBITORS AND THERAPEUTIC APPLICATIONS THEREOF	(47) 09.02.2022
XIE, Cheng	(73) Suzhou Kintor Pharmaceuticals, Inc.	(87) US2016021609
CHEN, Kevin X	(72) GUO, Chuangxing	15.09.2016
ZHANG, Li	TONG, Youzhi	(22) 09.03.2016
YU, Yanxin	(31) 201662354754 P	(54) ENOLASE INHIBITORS AND METHODS OF TREATMENT THEREWITH
(31) 201810399876	(32) 25.06.2016	(73) Board of Regents, The University of Texas System
(32) 28.04.2018	(33) United States of America	(72) SUN, Duoli
(33) China	(51) C07F 5/02	MAXWELL, David, S.
(51) C07D 487/04	A61K 31/69	SATANI, Nikuni
A61K 31/519	A61P 29/00	DEPINHO, Ronald, A.
A61P 25/00	(11) EP3708568	BORNMANN, William, G.
C07D 451/02	(21) EP18898008.0	CZAKO, Barbara
(11) EP3535268	(47) 09.02.2022	PRASAD, Basvoju, A Bhanu
(21) EP17797113.2	(87) CN2018123420	PISANESCHI, Federica
(47) 09.02.2022	11.07.2019	PENG, Zhenghong
(87) EP2017077918	(22) 25.12.2018	DIFRANSESCO, M., Emilia
11.05.2018	(54) COMPOUND CAPABLE OF INHIBITING PHOSPHODIESTERASE 4, PREPARATION METHOD, AND MEDICAL USE THEREOF	MULLER, Florian
(22) 31.10.2017	(73) Hefei Industrial Pharmaceutical Institute Co., Ltd	LIN, Yu-Hsi
(54) [1,2,4]TRIAZOLO[1,5-A]PYRIMIDINE COMPOUNDS AS PDE2 INHIBITORS	Hefei Amvite Pharmaceutical Co., Ltd	(31) 201562130431 P
(73) Janssen Pharmaceutica NV	(72) HE, Guangwei	(32) 09.03.2015
(72) TRESADERN, Gary, John	CHU, Zhaoxing	(33) United States of America
BUIJNSTERS, Peter, Jacobus,	LI, Feng	(51) C07F 15/00
Johannes, Antonius		H01L 51/00
VAN ROOSBROECK, Yves, Emiel, Maria		H01L 51/50
VELTER, Adriana, Ingrid		A61P 35/00
GIJSEN, Henricus, Jacobus, Maria		



FUNG, Emma	C08F 236/12	(31) 17208375
CHARI, Ravi	C08K 5/098	(32) 19.12.2017
BARLOW, Eve H.	C08F 4/80	(33) European Patent Office (EPO)
(31) 375193 P	C08L 9/04	(51) C08F 299/00
(32) 19.08.2010	(11) EP3728337	C08G 65/34
(33) United States of America	(21) EP18814918.1	C08F 220/18
(51) C07K 16/28	(47) 09.02.2022	C08F 220/42
A61K 39/395	(87) EP2018084325	C08J 3/075
(11) EP2744826	27.06.2019	H01L 27/32
(21) EP12745883.4	(22) 11.12.2018	C08F 8/30
(47) 09.02.2022	(54) HYDROGENATION OF NITRILE	C08F 287/00
(87) EP2012065904	BUTADIENE RUBBER LATEX	C08F 293/00
21.02.2013	(73) ARLANXEO Deutschland GmbH	C09D 153/00
(22) 14.08.2012	(72) REMPEL, Garry	G02F 1/15
(54) COMBINATION THERAPY WITH AN	WANG, Hui	(11) EP3533813
ANTI-CD19 ANTIBODY AND A PURINE	(31) 17208061	(21) EP17863402.8
ANALOG	(32) 18.12.2017	(47) 09.02.2022
(73) MorphoSys AG	(33) European Patent Office (EPO)	(87) KR2017012037
(72) WINDERLICH, Mark	(51) C08F 267/04	03.05.2018
STEIDL, Stefan	C09K 8/524	(22) 30.10.2017
KROHN, Susanne	C08F 8/14	(54) GEL POLYMER ELECTROLYTE,
AMERSDORFFER, Jutta	(11) EP3626753	METHOD FOR PRODUCING GEL
ROJKJAER, Lisa	(21) EP18802833.6	POLYMER ELECTROLYTE AND
(31) 201161523862 P	(47) 09.02.2022	ELECTROCHROMIC DEVICE
11177660	(87) CN2018087068	CONTAINING SAME
(32) 16.08.2011	22.11.2018	(73) LG Chem, Ltd.
16.08.2011	(22) 16.05.2018	(72) KIM, Ji Yeon
(33) United States of America	(54) ESTER POLYMER, PREPARATION	KIM, Sa Rah
European Patent Office (EPO)	METHOD THEREFOR AND USE	YOON, Jeong Ae
(51) C08B 11/02	THEREOF	KIM, Kyung Oh
C08J 3/12	(73) Research Institute Of Petroleum	LEE, Su Hee
(11) EP3303407	Processing, Sinopec	YOON, Sung Soo
(21) EP16727603.9	China Petroleum & Chemical Corporation	KIM, Su Jeong
(47) 09.02.2022	(72) ZHANG, Qundan	(31) 20160142874
(87) US2016034222	LI, Hu	(32) 31.10.2016
08.12.2016	TIAN, Songbai	(33) Korea (Republic)
(22) 26.05.2016	ZHU, Xinyu	(51) C08G 18/71
(54) CELLULOSE ETHER POWDERS	LI, Cheng	C08G 18/76
(73) Dow Global Technologies LLC	WANG, Xiaowei	C08G 18/80
(72) KNARR, Matthias	(31) 201710346651	C08G 18/00
ADDEN, Roland	(32) 17.05.2017	C08G 18/16
CHATTERJEE, Tirtha	(33) China	C08G 18/20
BRACKHAGEN, Meinolf	(51) C08F 293/00	C08G 18/28
(31) 201562171309 P	C08L 53/00	C08G 73/06
(32) 05.06.2015	H01M 4/00	(11) EP3577149
(33) United States of America	H01M 10/00	(21) EP18701203.4
(51) C08B 37/02	H01M 6/00	(47) 09.02.2022
C08L 5/02	H01M 8/00	(87) EP2018052268
C12P 19/08	B01D 71/80	09.08.2018
C12P 19/18	H01G 9/02	(22) 30.01.2018
C12N 9/10	H01G 11/52	(54) METHOD FOR THE PRODUCTION
(11) EP3277730	H01M 50/403	OF POLYOXAZOLIDINONE POLYMER
(21) EP16758306.1	H01M 50/411	COMPOUNDS
(47) 09.02.2022	H01M 50/449	(73) Covestro Intellectual Property GmbH &
(87) US2016024582	(11) EP3728359	Co. KG
06.10.2016	(21) EP18819113.4	(72) LEITNER, Walter
(22) 28.03.2016	(47) 09.02.2022	GÜRTLER, Christoph
(54) GELLING DEXTRAN ETHERS	(87) EP2018085169	MÜLLER, Thomas, Ernst
(73) Nutrition & Biosciences USA 4, Inc.	27.06.2019	MARKER, Volker
(72) PAULLIN, Jayme L.	(22) 17.12.2018	RANGHEARD, Claudine
NAMBIAR, Rakesh	(54) FLUORINATED BLOCK COPOLYMERS	KOOPMANS, Carsten
(31) 201562142658 P	AND APPLICATION THEREOF	(31) 17154416
201562142654 P	(73) Solvay Specialty Polymers Italy S.p.A.	(32) 02.02.2017
(32) 03.04.2015	(72) CARELLA, Serena	(33) European Patent Office (EPO)
03.04.2015	GHIELMI, Alessandro	(51) C08G 18/79
(33) United States of America	MAZZOLA, Mirko	C09D 175/02
United States of America	MOLENA, Elena	C08G 18/32
(51) C08C 19/02	ORIANI, Andrea Vittorio	(11) EP3441411

(21) EP18187479.3	(32) 28.08.2012	(21) EP20186129.1
(47) 09.02.2022	(33) European Patent Office (EPO)	(47) 09.02.2022
(22) 06.08.2018	(51) C08G 65/40	(22) 16.07.2020
(54) POLYURETHANE SYSTEM AND ITS USE IN PRINTING TECHNOLOGY	(11) EP3728401	(54) TRIALLYL CYANURATE-CONTAINING ADDITION-CURABLE SILICONE COMPOSITION AND A METHOD FOR PREPARING THE SAME
(73) RAMPF Polymer Solutions GmbH & Co. KG	(21) EP18822085.9	(73) Shin-Etsu Chemical Co., Ltd.
(72) GEIGER, Gunnar	(47) 09.02.2022	(72) AKETA, Takashi
PROGNER, Daniela	(87) EP2018086252	(31) 2019131875
RETIG, Stefan	27.06.2019	(32) 17.07.2019
(31) 17185174	(22) 20.12.2018	(33) Japan
(32) 07.08.2017	(54) POLYMER-METAL JUNCTION COMPRISING PEEK-PEMEK COPOLYMER COMPOSITIONS, IN CONTACT WITH A METAL SUBSTRATE	(51) C08H 8/00
(33) European Patent Office (EPO)	(73) Solvay Specialty Polymers USA, LLC.	C08H 7/00
(51) C08G 63/181	(72) LOUIS, Chantal	C12P 7/10
(11) EP3378881	EL-HIBRI, Mohammad Jamal	A23K 40/00
(21) EP18169328.4	(31) 201762608245 P	A23K 10/30
(47) 09.02.2022	18157845	A23K 50/10
(22) 11.03.2015	(32) 20.12.2017	A23K 50/30
(54) PROCESS FOR ENHANCING THE MOLECULAR WEIGHT OF A POLYESTER	21.02.2018	A23K 30/15
(73) Furanix Technologies B.V	(33) United States of America	(11) EP3129427
(72) SCHIAVONE, Robert Joseph	European Patent Office (EPO)	(21) EP15716496.3
GRUTER, Gerardus Johannes Maria	(51) C08G 69/48	(47) 09.02.2022
DAM, Matheus Adrianus	C08J 3/24	(87) EP2015057855
ANDREWS, Marion L.	C08L 77/02	15.10.2015
KOLSTAD, Jeffrey John	C08L 77/06	(22) 10.04.2015
VAN BERKEL, Jesper Gabriël	C08K 5/5419	(54) DRASTIC REDUCTION OF VISCOSITY IN BIOMASS
(31) 2012408	C08J 3/20	(73) Jensen, Niels Juul
201461951229 P	B29C 67/00	Madsen, Kurt Falkenløve
(32) 11.03.2014	B29C 64/153	Kleinhout, Arend
11.03.2014	(11) EP3559086	(72) Kleinhout, Arend
(33) Netherlands	(21) EP17832528.8	Madsen, Kurt Falkenløve
United States of America	(47) 09.02.2022	Jensen, Niels Juul
(51) C08G 63/181	(87) FR2017053776	(31) 201400211
C08G 63/78	28.06.2018	(32) 11.04.2014
(11) EP3350246	(22) 21.12.2017	(33) Denmark
(21) EP16771013.6	(54) POWDER OF SPHERICAL CROSSLINKABLE POLYAMIDE PARTICLES, PREPARATION PROCESS AND USE WITH THE SELECTIVE LASER SINTERING TECHNIQUE	(51) C08J 3/16
(47) 09.02.2022	(73) Setup Performance SAS	C08F 6/22
(87) NL2016050632	(72) GIMENEZ, Jerome	C09J 11/00
23.03.2017	(31) 1663160	C08J 9/32
(22) 14.09.2016	(32) 22.12.2016	(11) EP3201260
(54) PROCESS FOR THE PREPARATION OF A POLYESTER	(33) France	(21) EP15775667.7
(73) Furanix Technologies B.V	(51) C08G 73/10	(47) 09.02.2022
(72) SIPOS, Laszlo	(11) EP3242904	(87) EP2015072546
(31) 2015433	(21) EP16704951.9	07.04.2016
(32) 14.09.2015	(47) 09.02.2022	(22) 30.09.2015
(33) Netherlands	(87) US2016012015	(54) AQUEOUS COAGULATABLE POLYMER DISPERSION AND USE THEREOF AS AN ADHESIVE
(51) C08G 63/676	14.07.2016	(73) Jowat SE
C08G 65/20	(22) 04.01.2016	(72) TERFLOTH, Christian
C09D 167/08	(54) REACTIVE FRIABLE POLYIMIDE AND METHOD OF MAKING	SCHMIDT, Christian
C08G 65/332	(73) SHPP Global Technologies B.V.	(31) 14187381
C09D 171/02	(72) KALYANARAMAN, Viswanathan	(32) 01.10.2014
(11) EP2890728	TOPLE, Nitin Vilas	(33) European Patent Office (EPO)
(21) EP13756098.3	(31) 201562099625 P	(51) C08J 5/04
(47) 09.02.2022	(32) 05.01.2015	B32B 5/02
(87) EP2013067742	(33) United States of America	B32B 27/12
06.03.2014	(51) C08G 77/12	B32B 5/06
(22) 27.08.2013	C08G 77/20	B32B 5/12
(54) POLYMER IN MULTI-COAT COLOUR AND/OR EFFECT PAINT SYSTEM	C08L 83/04	B32B 5/16
(73) BASF Coatings GmbH	C09D 183/04	B32B 5/26
(72) HOFFMANN, Peter	C09J 183/04	B32B 7/04
STEINMETZ, Bernhard	(11) EP3766922	C08G 65/46
REUTER, Hardy		C08G 65/48
LAVALAYE, Jorn		(11) EP3397489
(31) 12182050		(21) EP16834149.3

(47) 09.02.2022	PROPERTIES AND USE OF	Electra Polymer Ltd.
(87) US2016068639	COLOURING AGENTS THEREIN	(72) WALL, Christopher
06.07.2017	(73) BASF SE	LANDELLS, Clive
(22) 27.12.2016	(72) XALTER, Rainer	(31) 17208239
(54) SURFACE-TREATED POLYMERIC	RICHTER, Florian	(32) 18.12.2017
PARTICLES, SLURRY CONTAINING	(31) 17208051	(33) European Patent Office (EPO)
THE SAME AND USE THEREOF	(32) 18.12.2017	(51) C09D 11/107
(73) Cytec Industries Inc.	(33) European Patent Office (EPO)	C09D 11/106
(72) GRIFFIN, James, Martin	(51) C08L 9/02	C09D 11/322
PRATTE, James, Francis	C09D 109/02	C09D 11/40
HO, Kingsley, Kin Chee	C08L 9/04	C09D 11/54
(31) 201562272940 P	C08L 11/00	B41J 2/01
(32) 30.12.2015	(11) EP3071641	B41M 5/00
(33) United States of America	(21) EP14863776.2	C08F 20/70
(51) C08J 5/24	(47) 09.02.2022	(11) EP3604457
(11) EP3720901	(87) AU2014001043	(21) EP18774855.3
(21) EP18836734.6	28.05.2015	(47) 09.02.2022
(47) 09.02.2022	(22) 18.11.2014	(87) JP2018011880
(87) US2018064064	(54) POLYMER BLENDS OF NITRILE	04.10.2018
13.06.2019	BUTADIENE RUBBER AND	(22) 23.03.2018
(22) 05.12.2018	POLYCHLOROPRENE	(54) AQUEOUS INK COMPOSITION, INK
(54) RESIN COMPOSITIONS FOR LIQUID	(73) Ansell Limited	SET, IMAGE FORMING METHOD, AND
RESIN INFUSION AND APPLICATIONS	(72) URENDA, Marco Antonio Carrillo	RESIN MICROPARTICLES FOR INK
THEREOF	GONZALEZ, Miguel Angel Sanchez	(73) FUJIFILM Corporation
(73) Cytec Industries Inc.	MERCADO, Agustin Portillo	(72) SHIRAKI, Fumiya
(72) MEEGAN, Jonathan, E.	DOMINGUEZ, Fernando	YASUDA, Koji
BILLAUD, Claude	(31) 201361906212 P	(31) 2017071819
(31) 201720433	(32) 19.11.2013	(32) 31.03.2017
(32) 07.12.2017	(33) United States of America	(33) Japan
(33) United Kingdom	(51) C09B 47/00	(51) C09D 11/34
(51) C08K 3/00	C07D 487/22	B41J 2/01
C08F 20/14	C07F 1/08	B41M 5/00
C08J 3/075	C07F 9/00	C09D 11/36
C08J 3/12	C07D 209/60	C09D 11/38
C08J 3/24	C07C 255/52	C09D 11/101
C08K 3/11	(11) EP3611175	C09D 11/12
C08K 5/00	(21) EP18781240.9	(11) EP3269782
C08K 5/109	(47) 09.02.2022	(21) EP16764898.9
C08K 3/011	(87) JP2018014747	(47) 09.02.2022
(11) EP3498760	11.10.2018	(87) JP2016057800
(21) EP18837432.6	(22) 06.04.2018	22.09.2016
(47) 09.02.2022	(54) NAPHTHALOCYANINE COMPOUND,	(22) 11.03.2016
(87) KR2018007236	METHOD FOR PRODUCING SAME,	(54) ACTINIC RAY-CURABLE INKJET INK
31.01.2019	AND USE THEREOF	CONTAINING TWO WAXES FORMING
(22) 26.06.2018	(73) Yamamoto Chemicals, Inc.	EUTECTIC AND INKJET RECORDING
(54) METHOD FOR PRODUCING A HIGHLY	(72) KATO Kenichi	METHOD
ABSORBENT RESIN	KOHSAKA Akihiro	(73) Konica Minolta, Inc.
(73) LG Chem, Ltd.	SASAKI Hiroyuki	(72) NISHIYAMA, Hiromichi
(72) WON, Tae Young	(31) 2017076480	(31) 2015050968
LEE, Yong Hun	(32) 07.04.2017	(32) 13.03.2015
SHIN, Kwangin	(33) Japan	(33) Japan
LEE, Jun Wye	(51) C09D 11/101	(51) C09D 179/02
HAN, Chang Hun	C09D 11/36	B05D 1/00
(31) 20170096361	H05K 1/00	(11) EP3699247
(32) 28.07.2017	C09D 11/30	(21) EP19158457.2
(33) Korea (Republic)	B41M 5/00	(47) 09.02.2022
(51) C08K 5/00	H05K 3/34	(22) 21.02.2019
C08K 5/132	B41M 7/00	(54) WATER-BASED EXTRUSION PRIMER
C08K 5/21	(11) EP3728490	FOR POLYETHYLENE
C08K 5/3477	(21) EP18814908.2	(73) Henkel AG & Co. KGaA
(11) EP3728437	(47) 09.02.2022	(72) BLODAU, Marcel
(21) EP18819114.2	(87) EP2018084134	KINZELMANN, Hans-Georg
(47) 09.02.2022	27.06.2019	(51) C09G 1/02
(87) EP2018085186	(22) 10.12.2018	C09K 3/14
27.06.2019	(54) SOLDER MASK INKJET INKS FOR	A61K 8/02
(22) 17.12.2018	MANUFACTURING PRINTED CIRCUIT	A61K 8/19
(54) POLYAMIDE MOULDING MATERIAL	BOARDS	A61Q 19/00
WITH IMPROVED OPTICAL	(73) AGFA-GEVAERT NV	(11) EP3585847

(21) EP18758489.1	MUNSON, Harold T.	(32) 20.03.2018
(47) 09.02.2022	(31) 201662356010 P	(33) European Patent Office (EPO)
(87) US2018019777	201562206618 P	(51) C09K 11/06
30.08.2018	(32) 29.06.2016	H01L 51/50
(22) 26.02.2018	18.08.2015	(11) EP3643762
(54) MICROABRASIVE COMPOSITIONS	(33) United States of America	(21) EP18821423.3
CONTAINING OÖIDS	United States of America	(47) 09.02.2022
(73) California Institute of Technology	(51) C09K 5/14	(87) KR2018006794
(72) LINGAPPA, Usha, F.	C08K 3/013	27.12.2018
FISCHER, Woodward	C08G 18/42	(22) 15.06.2018
TROWER, Elizabeth, J.	C08G 18/73	(54) ORGANIC OPTOELECTRONIC
GROTZINGER, John, P.	C09J 175/04	ELEMENT AND DISPLAY DEVICE
(31) 201762463030 P	(11) EP3626770	(73) Samsung SDI Co., Ltd
(32) 24.02.2017	(21) EP18802691.8	(72) JO, Youngkyoung
(33) United States of America	(47) 09.02.2022	JUNG, Ho Kuk
(51) C09J 5/00	(87) KR2018005544	KANG, Giwook
H01L 23/12	22.11.2018	KIM, Byungku
H01L 23/36	(22) 15.05.2018	JUNG, Sung-Hyun
H01L 33/48	(54) RESIN COMPOSITION	LEE, Hanill
H05K 1/02	(73) LG Chem, Ltd.	YU, Eun Sun
H05K 3/38	(72) PARK, Sang Min	JANG, Kipo
B23K 1/008	PARK, Eun Suk	(31) 20170079209
B23K 1/20	KANG, Seong Kyun	(32) 22.06.2017
B23K 20/02	KANG, Yang Gu	(33) Korea (Republic)
B23K 20/16	CHO, Yoon Gyoung	(51) C09K 11/06
B23K 20/233	CHOI, Hyeon	H01L 51/50
B23K 20/24	YANG, Se Woo	C07D 403/14
B23K 1/00	(31) 20170060628	C07D 405/14
H01L 25/07	(32) 16.05.2017	C07D 409/14
H01L 25/18	(33) Korea (Republic)	(11) EP3704210
B23K 101/42	(51) C09K 5/14	(21) EP18803867.3
(11) EP3597341	C08K 3/013	(47) 09.02.2022
(21) EP18767708.3	C08K 5/541	(87) EP2018079019
(47) 09.02.2022	C08L 83/04	09.05.2019
(87) JP2018007598	H01L 23/36	(22) 23.10.2018
20.09.2018	H01L 23/373	(54) ORGANIC MOLECULES FOR USE IN
(22) 28.02.2018	H05K 7/20	OPTOELECTRONIC DEVICES
(54) METHOD FOR PRODUCING BONDED	(11) EP3608384	(73) cynora GmbH
BODY, METHOD FOR PRODUCING	(21) EP18824099.8	(72) SEIFERMANN, Stefan
INSULATED CIRCUIT BOARD,	(47) 09.02.2022	(31) 17199193
AND METHOD FOR PRODUCING	(87) JP2018024062	(32) 30.10.2017
INSULATED CIRCUIT BOARD WITH	03.01.2019	(33) European Patent Office (EPO)
HEATSINK	(22) 25.06.2018	(51) C10G 45/08
(73) Mitsubishi Materials Corporation	(54) HEAT-CONDUCTIVE SHEET	C10G 65/04
(72) OOI Soutarou	(73) Sekisui Polymatech Co., Ltd.	(11) EP3728519
NAGATOMO Yoshiyuki	(72) KUDOH, Hiroki	(21) EP18814905.8
YUMOTO Ryouhei	(31) 2017125104	(47) 09.02.2022
(31) 2017053689	(32) 27.06.2017	(87) EP2018084053
(32) 17.03.2017	(33) Japan	27.06.2019
(33) Japan	(51) C09K 11/06	(22) 07.12.2018
(51) C09J 167/06	H01L 33/50	(54) IMPROVED METHOD FOR
C08G 63/54	(11) EP3768799	CONVERTING RESIDUES
C09J 7/22	(21) EP19710704.8	INCORPORATING DEEP
C09J 7/38	(47) 09.02.2022	HYDROCONVERSION STEPS AND A
(11) EP3337868	(87) EP2019056774	DEASPHALTING STEP
(21) EP16837537.6	26.09.2019	(73) IFP Energies nouvelles
(47) 09.02.2022	(22) 19.03.2019	(72) FEUGNET, Frédéric
(87) US2016046463	(54) YELLOW LIGHT EMITTING DEVICE	DREILLARD, Matthieu
23.02.2017	(73) BASF Taiwan Ltd.	LE COZ, Jean-François
(22) 11.08.2016	BASF SE	MARQUES, Joao
(54) IMPACT-RESISTANT POLYESTER	(72) KOENEMANN, Martin	(31) 1762866
PRESSURE-SENSITIVE ADHESIVE	CHOU, Wei Chang	(32) 21.12.2017
(73) 3M Innovative Properties Company	MANGOLD, Hannah Stephanie	(33) France
(72) CHEN, Zhong	IVANOVICI, Sorin	(51) C10M 137/08
LEHN, Nathaniel I.	TSAI, Chia Wei	(11) EP3487965
LIU, Richard Y.	LEE, Yen Te	(21) EP17742636.8
HO, Victor	HONG, Siang Fu	(47) 09.02.2022
MA, Jingjing	(31) 18162913	(87) US2017042325

25.01.2018	WRUBBEL, Noelle	(33) European Patent Office (EPO)
(22) 17.07.2017	VOCKENROTH, Inga Kerstin	(51) C12M 1/34
(54) ALKYL PHOSPHATE AMINE SALTS	KROPF, Christian	C12M 3/00
FOR USE IN LUBRICANTS	(31) 102016212248	G01N 33/53
(73) The Lubrizol Corporation	(32) 05.07.2016	G01N 33/543
(72) KASSIR, Jamal	(33) Germany	(11) EP2888349
BLANAZS, Lisa	(51) C11D 3/48	(21) EP13830534.7
BARTON, William R.S.	C11D 3/395	(47) 09.02.2022
ZHANG, Yanshi	C11D 3/00	(87) US2013056454
ADAMS, Paul E.	(11) EP3551741	27.02.2014
VINCENT, Paul R.	(21) EP17792091.5	(22) 23.08.2013
SUTTON, Michael R.	(47) 09.02.2022	(54) SYSTEM, DEVICE AND METHOD FOR
COOK, Stephen J.	(87) EP2017078197	HIGH-THROUGHPUT MULTI-PLEXED
SACCOMANDO, Daniel J.	14.06.2018	DETECTION
DELBRIDGE, Ewan E.	(22) 03.11.2017	(73) Yale University
(31) 201662364603 P	(54) SANITISING SYSTEM	(72) CHEN, Jonathan
(32) 20.07.2016	(73) Unilever IP Holdings B.V.	FAN, Rong
(33) United States of America	(72) PRAMANIK, Amitava	LU, Yao
(51) C11B 9/00	SHAH, Nimish, Harshadrai	(31) 201361779299 P
A61Q 13/00	SARKAR, Priyanka	201261692895 P
A61L 9/01	(31) 16203298	(32) 13.03.2013
C11D 3/50	(32) 09.12.2016	24.08.2012
(11) EP3167031	(33) European Patent Office (EPO)	(33) United States of America
(21) EP15734386.4	(51) C11D 3/50	United States of America
(47) 09.02.2022	B01J 13/14	(51) C12M 3/00
(87) EP2015065429	(11) EP3445843	C12M 1/28
14.01.2016	(21) EP17722214.8	C12M 1/12
(22) 07.07.2015	(47) 09.02.2022	C12M 1/00
(54) ISOMERS MIXTURES OF	(87) US2017028141	C12M 1/32
UNSATURATED MACROCYCLIC MUSK	26.10.2017	(11) EP3395939
COMPOUNDS	(22) 18.04.2017	(21) EP16879034.3
(73) Symrise AG	(54) FILM COMPRISING PERFUME	(47) 09.02.2022
(72) WIEDMANN, Wilhelm	MICROCAPSULES AND A CONTAINER	(87) JP2016088597
KULKE, Torsten	COMPRISING SUCH A FILM AND A	29.06.2017
HÖLSCHER, Bernd	DETERGENT	(22) 24.12.2016
SIEGEL, Sven	(73) Givaudan S.A.	(54) CELL SORTING, CULTURE, AND
(31) 14176002	Monosol, LLC	GROWTH VESSEL; AND CELL
(32) 07.07.2014	(72) PARULEKAR, Yashodhan, S.	SORTING, CULTURE, AND GROWTH
(33) European Patent Office (EPO)	KNIGHT, Jonathon	METHOD
(51) C11D 3/00	LEE, David, M.	(73) Minowa, Noboru
C11D 3/37	KOLB, Stephanie	National Center for Geriatrics and
C11D 11/00	(31) 201662324145 P	Gerontology
(11) EP3759203	(32) 18.04.2016	Nepa Gene Co., Ltd.
(21) EP19705532.0	(33) United States of America	(72) SHIMAGAKI Masaaki
(47) 09.02.2022	(51) C11D 17/00	SUZUKI Kosho
(87) EP2019054108	C11D 3/04	ATSUMI Yusuke
06.09.2019	C11D 3/12	NAKASHIMA Misako
(22) 19.02.2019	C11D 3/22	(31) 2015255511
(54) LAUNDRY METHOD	C11D 3/37	(32) 26.12.2015
(73) Unilever IP Holdings B.V.	C11D 3/38	(33) Japan
(72) OSLER, Jonathan	C11D 3/386	(51) C12N 1/00
CROSSMAN, Martin, Charles	C11D 17/06	C12N 1/20
(31) 18159799	(11) EP3535377	C12R 1/01
(32) 02.03.2018	(21) EP17798151.1	(11) EP3325604
(33) European Patent Office (EPO)	(47) 09.02.2022	(21) EP16831212.2
(51) C11D 3/20	(87) EP2017077903	(47) 09.02.2022
C11D 3/33	11.05.2018	(87) US2016043933
(11) EP3481936	(22) 31.10.2017	02.02.2017
(21) EP17734730.9	(54) MULTI-CORE GRANULES	(22) 25.07.2016
(47) 09.02.2022	(73) Novozymes A/S	(54) AGRICULTURALLY BENEFICIAL
(87) EP2017066464	(72) SHANG, Lei	MICROBES, MICROBIAL
11.01.2018	BACH, Poul	COMPOSITIONS, AND CONSORTIA
(22) 03.07.2017	SIMONSEN, Ole	(73) BioConsortia, Inc.
(54) DISHWASHING COMPOSITION	FINDEISEN, Alexander	(72) WIGLEY, Peter
CONTAINING SUGAR ACID AND	CERVERA-PADRELL, Albert, E	WRIGHT, Damian
AMINO CARBOXYLIC ACID	NISSEN, Lotte, E	GEORGE, Caroline
(73) Henkel AG & Co. KGaA	(31) 16196760	HYMUS, Graham
(72) WEBER, Thomas	(32) 01.11.2016	WILLIAMS, Thomas

TURNER, Susan	(72) Strickland, Leila	(31) 17204815
ROBERTS, Kelly	(31) 202063199164 P	17199032
(31) 201562196951 P	202062958407 P	(32) 30.11.2017
(32) 25.07.2015	(32) 10.12.2020	27.10.2017
(33) United States of America	08.01.2020	(33) European Patent Office (EPO)
(51) C12N 5/00	(33) United States of America	European Patent Office (EPO)
(11) EP3622053	United States of America	(51) C12N 15/113
(21) EP18720323.7	(51) C12N 7/00	A61K 31/712
(47) 09.02.2022	C12N 15/861	A61P 9/00
(87) FR2018050914	C07K 14/075	(11) EP3724336
25.10.2018	C12N 15/86	(21) EP18833849.5
(22) 11.04.2018	C07K 14/005	(47) 09.02.2022
(54) USE OF URIC ACID FOR A	(11) EP2764014	(87) EP2018085008
CELL CULTURE IN AN AEROBIC	(21) EP12775113.9	20.06.2019
ATMOSPHERE NOT SUPPLEMENTED	(47) 09.02.2022	(22) 14.12.2018
WITH CO2	(87) US2012059006	(54) IMPROVED COMPOUND FOR
(73) Centre National de la Recherche	11.04.2013	TREATMENT OF HEART FAILURE
Scientifique (CNRS)	(22) 05.10.2012	(73) Medizinische Hochschule Hannover
INSERM (Institut National de la Santé et	(54) ADENOVIRAL VECTORS AND	(72) THUM, Thomas
de la Recherche Médicale)	METHODS OF USE	BATKAI, Sandor
Fondation Méditerranée Infection	(73) GenVec, Inc.	FOINQUINOS, Ariana
Université d'Aix Marseille	(72) GALL, Jason G.D.	(31) 201762599050 P
Assistance Publique - Hôpitaux de	BROUGH, Douglas E.	17207738
Marseille	MCVEY, Duncan	(32) 15.12.2017
(72) RAOULT, Didier	(31) 201161543661 P	15.12.2017
LA SCOLA, Bernard	(32) 05.10.2011	(33) United States of America
(31) 1753329	(33) United States of America	European Patent Office (EPO)
(32) 18.04.2017	(51) C12N 9/22	(51) C12N 15/31
(33) France	C11D 3/386	A61K 39/02
(51) C12N 5/00	(11) EP3476935	A61K 39/095
C07K 16/18	(21) EP18202967.8	A61K 39/102
C07K 16/22	(47) 09.02.2022	A61P 31/04
C12N 5/10	(22) 26.10.2018	A61P 37/04
C12N 15/00	(54) DETERGENT COMPOSITIONS	C07K 14/195
C12N 15/09	COMPRISING POLYPEPTIDE	C07K 14/22
C40B 40/02	VARIANTS	C07K 14/285
(11) EP3138903	(73) The Procter & Gamble Company	C12N 15/63
(21) EP15786546.0	(72) ABEL, Gernot J.	(11) EP3077512
(47) 09.02.2022	LANT, Neil Joseph	(21) EP14866832.0
(87) JP2015063090	JOHANSEN, Annette Helle	(47) 09.02.2022
05.11.2015	OESTERGAARD, Lars Henrik	(87) CA2014051146
(22) 01.05.2015	GORI, Klaus	11.06.2015
(54) CELLS FOR PRODUCING HUMAN	GIGER, Lars	(22) 01.12.2014
ANTIBODY	BEIER, Lars	(54) IMMUNOGENIC COMPOSITIONS
(73) Chiome Bioscience Inc.	(31) 17204815	AND VACCINES DERIVED FROM
(72) KAWATA, Shigehisa	17199032	BACTERIAL SURFACE RECEPTOR
YABUKI, Takashi	(32) 30.11.2017	PROTEINS
UCHIKI, Tomoaki	27.10.2017	(73) Engineered Antigens Inc.
TAKAHASHI, Naoki	(33) European Patent Office (EPO)	(72) SCHRYVERS, Anthony B.
ASAGOSHI, Kenjiro	European Patent Office (EPO)	GRAY-OWEN, Scott
HASHIMOTO, Shuichi	(51) C12N 9/22	MORAES, Trevor F.
SAWADA, Atsushi	C11D 3/386	(31) 201462007068 P
SANO, Hitomi	(11) EP3476936	201361910817 P
TAKESUE, Aki	(21) EP18202983.5	(32) 03.06.2014
MIYAI, Shunsuke	(47) 09.02.2022	02.12.2013
(31) 2014095236	(22) 26.10.2018	(33) United States of America
(32) 02.05.2014	(54) DETERGENT COMPOSITIONS	United States of America
(33) Japan	COMPRISING POLYPEPTIDE	(51) C12P 5/02
(51) C12N 5/071	VARIANTS	C12P 7/64
(11) EP3848454	(73) The Procter & Gamble Company	(11) EP2196539
(21) EP20216646.8	(72) GIGER, Lars	(21) EP08171701.9
(47) 09.02.2022	BEIER, Lars	(47) 09.02.2022
(22) 22.12.2020	OESTERGAARD, Lars Henrik	(22) 15.12.2008
(54) LIVE CELL CONSTRUCTS FOR	LANT, Neil Joseph	(54) Process for the continuous biological
PRODUCTION OF CULTURED MILK	ABEL, Gernot J.	production of lipids, hydrocarbons or
PRODUCT AND METHODS USING THE	KNÖTZEL, Jürgen Carsten Franz	mixtures thereof
SAME	GORI, Klaus	(73) Delft Advanced Biofuels B.V.
(73) Biomilq, Inc.	JOHANSEN, Annette Helle	(72) Heijnen, Johannes Joseph

Van der Wielen, Lucas Antonius Maria	(54) METHODS AND KITS FOR FRAGMENTING DNA	C21D 1/20
(51) C12P 19/26	(73) Tsinghua University	C21D 6/00
C12N 9/10	Ramat at Tel-Aviv University Ltd.	C21D 9/00
C08B 37/00	(72) EBENSTEIN, Yuval	C22C 38/02
(11) EP2655421	ZHAO, Xuejin	(11) EP3623485
(21) EP11849994.6	JIANG, Wenjun	(21) EP19197349.4
(47) 09.02.2022	LOU, Chunbo	(47) 09.02.2022
(87) US2011066843	GABRIELI, Tsili	(22) 13.09.2019
28.06.2012	ZHU, Ting	(54) METHOD FOR PRODUCING AN AUSFERRITIC STEEL, AUSTEMPERED DURING CONTINUOUS COOLING FOLLOWED BY ANNEALING
(22) 22.12.2011	(31) 201562156417 P	(73) Ausferritic AB
(54) CHEMOENZYMATIC SYNTHESIS OF STRUCTURALLY HOMOGENEOUS ULTRA-LOW MOLECULAR WEIGHT HEPARINS	(32) 04.05.2015	(72) Larker, Richard
(73) The University of North Carolina At Chapel Hill	(33) United States of America	(31) 1851553
(72) XU, Yongmei	(51) C12Q 1/6806	1851085
LIU, Jian	C12Q 1/6855	(32) 11.12.2018
(31) 201061426921 P	(11) EP3485037	14.09.2018
(32) 23.12.2010	(21) EP17748413.6	(33) Sweden
(33) United States of America	(47) 09.02.2022	Sweden
(51) C12P 21/00	(87) EP2017068087	(51) C21D 1/25
C12M 1/00	25.01.2018	C22C 38/02
C12N 5/00	(22) 18.07.2017	C22C 38/04
(11) EP3521440	(54) ASYMMETRIC TEMPLATES AND ASYMMETRIC METHOD OF NUCLEIC ACID SEQUENCING	C22C 38/06
(21) EP18213349.6	(73) F. Hoffmann-La Roche AG	C21D 1/26
(47) 09.02.2022	(72) CHEN, Rui	C21D 8/02
(22) 04.06.2015	GUETTOUCHE, Toumy	C21D 9/46
(54) METHODS FOR HARVESTING MAMMALIAN CELL CULTURES	NAVARRO, Loida	C22C 38/08
(73) Amgen Inc.	RICHARDSON, Aaron	C23C 2/00
(72) COLE, Sean	(31) 201662363653 P	C21D 8/04
LULL, Jonathan Craig	(32) 18.07.2016	C21D 6/00
LIN, Henry	(33) United States of America	C22C 38/12
SABO, Nicole	(51) C12Q 1/6886	C22C 38/14
THARMALINGAM, Tharmala	G01N 33/574	C22C 38/16
GOUDAR, Chetan	(11) EP3725898	C22C 38/18
(31) 201462007588 P	(21) EP19170329.7	C23C 14/00
(32) 04.06.2014	(47) 09.02.2022	C23C 16/00
(33) United States of America	(22) 18.04.2019	(11) EP3464665
(51) C12Q 1/18	(54) EUKARYOTIC TRANSLATION INITIATION FACTORS (EIFS) AS NOVEL BIOMARKERS IN HEAD AND NECK SQUAMOUS CELL CARCINOMA (HNSCC)	(21) EP17728648.1
C12Q 1/06	(73) Otto-von-Guericke-Universität Magdeburg	(47) 09.02.2022
C12Q 1/68	(72) HAYBÄCK, Johannes	(87) IB2017000616
(11) EP2738262	CYRAN, Anna Maria	30.11.2017
(21) EP12817952.0	NAUMANN, Michael	(22) 23.05.2017
(47) 09.02.2022	ARENS, Christoph	(54) COLD ROLLED AND ANNEALED STEEL SHEET METHOD OF PRODUCTION
(87) ES2012070575	(51) C14B 1/26	(73) Arcelormittal
31.01.2013	C14B 1/58	(72) DE DIEGO CALDERON, Irène
(22) 26.07.2012	(11) EP3004400	ZUAZO RODRIGUEZ, Ian Alberto
(54) METHOD FOR EVALUATING BACTERIAL CELL WALL INTEGRITY	(21) EP14731064.3	SOLER, Michel
(73) Universidad Autónoma de Madrid	(47) 09.02.2022	(31) PCT/IB2016/000701
(72) BOU ARÉVALO, Germán	(87) IB2014061742	(32) 24.05.2016
SANTISO BRANDARIZ, Rebeca	04.12.2014	(33) World Intellectual Property Office (WIPO)
GOSÁLVEZ BERENQUER, Jaime	(22) 27.05.2014	(51) C21D 7/04
TAMAYO NOVAS, María	(54) LEATHERS DRYING AND/OR CONDITIONING METHOD AND DRYING AND/OR CONDITIONING PLANT SUITABLE TO IMPLEMENT SUCH A METHOD	B22F 5/00
FERNÁNDEZ GARCÍA, José Luis	(73) Erretre S.p.A.	B23K 20/12
(31) 201131276 P	(72) GALIOTTO, Antonio	C21D 7/08
(32) 26.07.2011	(31) PD20130150	C22F 1/10
(33) Spain	(32) 30.05.2013	F01D 5/06
(51) C12Q 1/6806	(33) Italy	(11) EP3421622
C12N 15/10	(51) C21D 1/19	(21) EP18169591.7
(11) EP3292219		(47) 09.02.2022
(21) EP16789403.9		(22) 26.04.2018
(47) 09.02.2022		(54) SOLID-STATE WELDING OF COARSE GRAIN POWDER METALLURGY NICKEL-BASED SUPERALLOYS
(87) IL2016050394		(73) Raytheon Technologies Corporation
10.11.2016		(72) BOCHIECHIO, Mario P.
(22) 14.04.2016		

RAGHAVAN, Ashwin Sreekant	C22B 9/10	(31) 2017047361
FRISK, Kenneth A.	C22C 21/02	(32) 13.03.2017
KAPLAN, Max A.	(11) EP3663419	(33) Japan
CRYWCZYNSKI, Michael A.	(21) EP18868910.3	(51) C22C 38/00
(31) 201715633659	(47) 09.02.2022	C22C 38/02
(32) 26.06.2017	(87) JP2018032281	C22C 38/06
(33) United States of America	25.04.2019	C22C 38/04
(51) C21D 8/06	(22) 31.08.2018	C22C 38/12
C22C 38/02	(54) AL ALLOY RECOVERY METHOD	C22C 38/14
C22C 38/04	(73) Kabushiki Kaisha Toyota Chuo	C21D 9/46
C22C 38/18	Kenkyusho	H01F 1/16
C22C 38/06	(72) KAWAHARA Hiroshi	C21D 8/12
C22C 38/00	YAOKAWA Jun	C21D 6/00
C22C 38/26	IWATA Yasushi	C22C 38/16
C22C 38/24	MINOURA Takuma	(11) EP3556883
(11) EP3715478	HIBI Kazuma	(21) EP17884428.8
(21) EP18896289.8	UENO Noriyuki	(47) 09.02.2022
(47) 09.02.2022	(31) 2017203362	(87) KR2017015025
(87) KR2018011911	(32) 20.10.2017	28.06.2018
04.07.2019	(33) Japan	(22) 19.12.2017
(22) 10.10.2018	(51) C22C 9/04	(54) NON-ORIENTED ELECTRICAL STEEL
(54) WIRE ROD FOR COLD HEADING, PROCESSED PRODUCT USING SAME, AND MANUFACTURING METHOD	C22F 1/08	SHEET AND MANUFACTURING
THEREFOR	C22F 1/00	METHOD THEREFOR
(73) POSCO	(11) EP3498869	(73) Posco
(72) LEE, Byoung Gab	(21) EP17841502.2	(72) SHIN, Su-Yong
PARK, In-Gyu	(47) 09.02.2022	LEE, Hun Ju
LEE, Sang-Yoon	(87) JP2017029369	KIM, Yong Soo
LEE, Jae Seung	22.02.2018	(31) 20160173923
KIM, Han Hwi	(22) 15.08.2017	(32) 19.12.2016
(31) 20170179227	(54) FREE-CUTTING COPPER ALLOY, USE OF THE FREE-CUTTING	(33) Korea (Republic)
(32) 26.12.2017	COPPER ALLOY AND METHOD FOR	(51) C22C 38/00
(33) Korea (Republic)	PRODUCING FREE-CUTTING COPPER	C22C 38/04
(51) C21D 8/12	ALLOY	C22C 38/46
C22C 38/02	(73) Mitsubishi Materials Corporation	C22C 38/48
C23C 22/74	(72) OISHI Keiichiro	C22C 38/50
C21D 1/30	GOTO Yoshiyuki	C21D 8/02
C22C 38/00	SUZAKI Kouichi	(11) EP3789508
C22C 38/04	TANAKA Shinji	(21) EP18918599.4
C22C 38/06	(31) 2016159238	(47) 09.02.2022
C22C 38/18	(32) 15.08.2016	(87) CN2018121100
C22C 38/60	(33) Japan	21.11.2019
C23C 22/22	(51) C22C 38/00	(22) 14.12.2018
(11) EP3366810	C21D 9/46	(54) HOT-ROLLED HIGH-TOUGHNESS AND
(21) EP15906787.5	C22C 38/14	LOW-TEMPERATURE-RESISTANT
(47) 09.02.2022	C22C 38/38	H-SHAPED STEEL WITH YIELD
(87) KR2015014108	C22C 38/02	STRENGTH OF 460 MPA AND
27.04.2017	C22C 38/04	PREPARATION METHOD THEREFOR
(22) 22.12.2015	C22C 38/06	(73) Shandong Iron and Steel Co., Ltd.
(54) COMPOSITION FOR FORMING	C22C 38/12	(72) WU, Yuli
INSULATION FILM OF ORIENTED	C21D 8/02	ZHAO, Peilin
ELECTRICAL STEEL SHEET, METHOD	C21D 6/00	HAN, Wenxi
FOR FORMING INSULATION FILM	C21D 1/26	ZHAO, Chuandong
BY USING SAME, AND ORIENTED	C21D 1/78	GUO, Weida
ELECTRICAL STEEL SHEET HAVING	(11) EP3572546	FANG, Jinlin
INSULATION FILM FORMED THEREIN	(21) EP18767644.0	WANG, Zhongxue
(73) Posco	(47) 09.02.2022	LI, Chao
(72) HAN, Min Soo	(87) JP2018008892	YANG, Dong
KIM, Chang-Soo	20.09.2018	GUO, Xiuhui
SHIN, Jae-Keun	(22) 08.03.2018	(31) 201810467000
PARK, Hyung Ki	(54) HIGH-STRENGTH COLD-ROLLED	(32) 16.05.2018
JOO, Hyung Don	STEEL SHEET AND METHOD FOR	(33) China
(31) 20150146105	MANUFACTURING THE SAME	(51) C23C 10/04
(32) 20.10.2015	(73) JFE Steel Corporation	C23C 10/08
(33) Korea (Republic)	(72) KAWAMURA Kenji	(11) EP2870271
(51) C22B 21/06	ONO Yoshihiko	(21) EP13739768.3
C22B 7/00	HIRASHIMA Takuya	(47) 09.02.2022
	HONDA Yuma	(87) FR2013051546
		09.01.2014

(22) 01.07.2013	(11) EP3390691	B01J 19/00
(54) METHOD AND TOOL FOR THE VAPOUR PHASE DEPOSITION OF A METAL COATING ONTO PARTS MADE OF SUPERALLOYS	(21) EP16826098.2	B01J 23/42
(73) Safran Aircraft Engines	(47) 09.02.2022	B01J 23/72
(72) RODRIGUEZ ELIZONDO, Gabriela	(87) FR2016053433	B22F 1/00
VITRAC, Stephane	22.06.2017	B22F 3/00
(31) 1256376	(22) 14.12.2016	B81C 99/00
(32) 03.07.2012	(54) METHOD FOR MANUFACTURING A PART OR A SUPPORTED MICROSTRUCTURE BY LASER	B82Y 15/00
(33) France	EXPOSURE OF A METAL OXALATE LAYER	B82Y 30/00
(51) C23C 14/06	(73) Université Toulouse III-Paul Sabatier	C25D 1/00
C23C 14/56	Centre National de la Recherche Scientifique	B01J 35/00
C23C 16/44	(72) CONEDERA, Véronique	(11) EP2260125
C30B 23/00	CALMON, Pierre-François	(21) EP09722727.6
C30B 29/48	LE TRONG, Hoa	(47) 09.02.2022
C23C 14/54	CAMON, Henri	(87) EP2009001776
(11) EP2539479	TAILHADES, Philippe	24.09.2009
(21) EP11712190.5	BACO, Valérie	(22) 12.03.2009
(47) 09.02.2022	PASQUET, Isabelle	(54) NANOWIRE STRUCTURAL ELEMENT
(87) EP2011052609	(31) 1562694	(73) GSI Helmholtzzentrum für Schwerionenforschung GmbH
01.09.2011	(32) 17.12.2015	(72) ENSINGER, Wolfgang
(22) 22.02.2011	(33) France	CORNELIUS, Thomas
(54) DEVICE AND METHOD FOR DEPOSING A LAYER COMPOSED OF AT LEAST TWO COMPONENTS ON A SUBSTRATE	(51) C23C 30/00	RAUBER, Markus
(73) (CNBM) Bengbu Design & Research Institute for Glass Industry Co., Ltd.	F01D 11/12	NEUMANN, Reinhard
(72) HAPP, Thomas	C23C 4/11	(31) 102008015333
PALM, Jörg	C23C 4/073	(32) 20.03.2008
JOST, Stefan	(11) EP3841229	(33) Germany
POHLNER, Stephan	(21) EP19782658.9	(51) D01D 5/08
(31) 10154378	(47) 09.02.2022	D04H 1/724
(32) 23.02.2010	(87) FR2019051943	D04H 1/736
(33) European Patent Office (EPO)	27.02.2020	D01D 5/084
(51) C23C 16/02	(22) 20.08.2019	(11) EP3460108
C23C 16/40	(54) ABRADABLE COATING FOR ROTATING BLADES OF A TURBOMACHINE	(21) EP17839594.3
C23C 16/509	(73) SAFRAN AIRCRAFT ENGINES	(47) 09.02.2022
C23C 28/00	(72) LE BIEZ, Philippe Charles Alain	(87) JP2017029183
C08J 7/04	PIN, Lisa	15.02.2018
C08J 7/043	DROZ, Nicolas	(22) 10.08.2017
C08J 7/044	SELEZNEFF, Serge Georges Vladimir	(54) FINE FIBER MANUFACTURING METHOD AND FINE FIBER MANUFACTURING APPARATUS
C08J 7/046	(31) 1857581	(73) Yamashin-Filter Corp.
(11) EP3354455	(32) 22.08.2018	(72) MAKINO, Hiroshi
(21) EP16848702.3	(33) France	SAITO, Akihiro
(47) 09.02.2022	(51) C23F 1/38	(31) 2016158236
(87) JP2016078127	C23F 1/40	(32) 10.08.2016
30.03.2017	H01L 45/00	(33) Japan
(22) 23.09.2016	(11) EP3351658	(51) D01H 1/08
(54) POLYMER SUBSTRATE WITH HARDCOAT LAYER, AND MANUFACTURING METHOD FOR SAME	(21) EP18152899.3	D01H 13/14
(73) Teijin Limited	(47) 09.02.2022	(11) EP3543383
Tsukishima Kikai Co., Ltd.	(22) 23.01.2018	(21) EP19162135.8
(72) KON, Tatsuchirou	(54) ETCHING SOLUTION FOR TUNGSTEN AND GST FILMS	(47) 09.02.2022
EKINAKA, Tatsuya	(73) Versum Materials US, LLC	(22) 12.03.2019
MORITA, Yume	(72) LIU, Wen Dar	(54) POT SPINNING MACHINE
KISHIMOTO, Hiroshi	HAN-ADEBEKUN, Gang Chris	(73) Kabushiki Kaisha Toyota Jidoshokki
SUGA, Takehiro	CHEN, Tianniu	(72) MIYATA, Yasuhiro
OGATA, Satoshi	LEE, Yi-Chia	TSUCHIDA, Daisuke
NAKAGOMI, Masato	SUN, Laisheng	(31) 2018056036
(31) 2015189003	(31) 201815872620	(32) 23.03.2018
(32) 25.09.2015	201762449290 P	(33) Japan
(33) Japan	(32) 16.01.2018	(51) D01H 13/04
(51) C23C 24/08	(33) United States of America	B65H 57/16
C23C 18/14	United States of America	B65H 51/16
	(51) C25D 1/08	(11) EP3835468
	C25D 5/18	(21) EP20209491.8
		(47) 09.02.2022
		(22) 24.11.2020
		(54) YARN HANDLING DEVICE
		(73) TMT Machinery, Inc.
		(72) Riyama, Yusuke

(31) 2019222239	(72) Mohr, Jürgen	D05B 21/00
(32) 09.12.2019	Berner, Peter	D05B 35/10
(33) Japan	Jenter, Roland	D05C 9/04
(51) D02J 3/00	(51) D04B 21/08	(11) EP3775349
D06M 10/02	D04B 21/16	(21) EP19721440.6
E04C 2/06	G09F 11/26	(47) 09.02.2022
E04C 5/07	G09F 13/04	(87) US2019026900
(11) EP3147393	(11) EP3854922	17.10.2019
(21) EP16190540.1	(21) EP20170754.4	(22) 11.04.2019
(47) 09.02.2022	(47) 09.02.2022	(54) ASSEMBLIES FOR TEXTILE
(22) 26.09.2016	(22) 22.04.2020	MANUFACTURING AND RELATED
(54) TEXTILE REINFORCEMENT USING	(54) KNITTED FABRIC WITH HIGH	METHODS
YARN AND METHOD FOR PREPARING	VISUAL SHIELDING PERFORMANCE,	(73) Nike Innovate C.V.
A YARN	PREPARATION METHOD THEREOF,	(72) TOELLE, Haley, L.
(73) Leibniz-Institut für Plasmaforschung und	AND APPLICATION THEREOF IN	RAFFAELE, Guillermo
Technologie e.V.	PREPARING ADVERTISING FABRIC	(31) 201862657179 P
(72) Schladitz, Frank	(73) Zhejiang Dejun New Material Co., Ltd.	(32) 13.04.2018
Kellner, Urte	(72) Li, Qiang	(33) United States of America
Curbach, Manfred	WANG, Guijun	(51) D05C 15/34
Mechtcherine, Viktor	(31) 202010292290	(11) EP3516102
Fröhlich, Maik	202010236647	(21) EP17761285.0
Lieboldt, Matthias	202010072589	(47) 09.02.2022
(31) 102015116222	(32) 14.04.2020	(87) EP2017072410
(32) 25.09.2015	30.03.2020	29.03.2018
(33) Germany	21.01.2020	(22) 07.09.2017
(51) D03D 47/27	(33) China	(54) METHOD FOR TUFTING A FABRIC,
D03J 1/24	China	PREFERABLY CARPET
(11) EP3754068	China	(73) Vandewiele NV
(21) EP20179143.1	(51) D04C 1/02	(72) CALLEWAERT, Koen
(47) 09.02.2022	A43B 23/02	(31) 16190104
(22) 10.06.2020	(11) EP3589780	(32) 22.09.2016
(54) WEAVING LOOM COMPRISING AN	(21) EP18733438.8	(33) European Patent Office (EPO)
OPTICAL DEVICE FOR MONITORING	(47) 09.02.2022	(51) D06F 15/02
THE WEAR OF GRIPPER STRAPS AND	(87) US2018035426	D06F 47/06
CONTROL METHOD OF SAID LOOM	06.12.2018	(11) EP3489403
(73) ITEM S.p.A.	(22) 31.05.2018	(21) EP17830852.4
(72) LUZZANA, Andrea	(54) BRAIDED ARTICLE OF FOOTWEAR	(47) 09.02.2022
MINELLI, Lorenzo	INCORPORATING FLAT YARNS	(87) JP2017024773
(31) 201900009372	(73) Nike Innovate C.V.	25.01.2018
(32) 18.06.2019	(72) LEE, Eun Kyung	(22) 06.07.2017
(33) Italy	YOO, James Y.	(54) WASHING MACHINE
(51) D04B 1/12	ICHIKAWA, Michihiro	(73) Panasonic Intellectual Property
A43B 1/04	ICHIKAWA, Chikao	Management Co., Ltd.
(11) EP3662102	BRUCE, Robert M.	(72) TAHARA, Mikio
(21) EP18756123.8	(31) 201815991846	ANDO, Mariko
(47) 09.02.2022	201762513229 P	HORIBATA, Hiroshi
(87) US2018045163	(32) 29.05.2018	NAWAMA, Junichi
07.02.2019	31.05.2017	KAWAI, Masahiro
(22) 03.08.2018	(33) United States of America	(31) 2017096427
(54) ARTICLE FORMED OF A KNITTED	United States of America	2016192816
COMPONENT COMPRISING AT LEAST	(51) D04H 3/02	2016144476
ONE LAYERED POD AND KNITTED	B32B 5/26	(32) 15.05.2017
COMPONENT	D04H 3/147	30.09.2016
(73) NIKE Innovate C.V.	D04H 3/16	22.07.2016
(72) RESNECK, Leah, M.	(11) EP3771764	(33) Japan
MCFARLAND, William, C., II.	(21) EP19189231.4	Japan
TROUFANOV, Nikita, A.	(47) 09.02.2022	Japan
(31) 201762541500 P	(22) 30.07.2019	(51) D06F 34/16
(32) 04.08.2017	(54) METHOD AND DEVICE FOR	D06F 33/48
(33) United States of America	PRODUCING A NONWOVEN FABRIC	D06F 103/04
(51) D04B 15/90	(73) Reifenhäuser GmbH & Co. KG	D06F 103/38
(11) EP3309282	Maschinenfabrik	D06F 105/48
(21) EP16193983.0	(72) RÖSNER, Andreas	D06F 103/24
(47) 09.02.2022	SOMMER, Sebastian	(11) EP3739101
(22) 14.10.2016	BOHL, Patrick	(21) EP20176729.0
(54) FLAT KNITTING MACHINE FOR	WAGNER, Tobias	(47) 09.02.2022
LOADING WEFT THREADS	GEUS, Hans Georg	(22) 21.10.2019
(73) KARL MAYER STOLL R&D GmbH	(51) D05B 23/00	

(54) WASHING MACHINE AND CONTROL METHOD THEREOF	D06F 105/08	D06F 105/52
(73) LG Electronics Inc.	D06F 105/42	D06F 105/56
(72) CHO, Younghan	D06F 105/58	A47L 15/00
(31) 20180135105	(11) EP3502335	A61L 2/24
(32) 06.11.2018	(21) EP18213609.3	(11) EP3618678
(33) Korea (Republic)	(47) 09.02.2022	(21) EP18721482.0
(51) D06F 34/32	(22) 18.12.2018	(47) 09.02.2022
(11) EP2787112	(54) WASHING MACHINE	(87) IB2018052622
(21) EP14162354.6	(73) Candy S.p.A.	08.11.2018
(47) 09.02.2022	(72) FUMAGALLI, Aldo	(22) 16.04.2018
(22) 28.03.2014	(31) 201700148892	(54) HOUSEHOLD APPLIANCE AND METHOD FOR CONTROLLING SAME
(54) Control method of a control panel of a clothes treating apparatus	(32) 22.12.2017	(73) BSH Hausgeräte GmbH
(73) LG Electronics Inc.	(33) Italy	(72) ZHANG, Hailing
(72) Jung, Noran	(51) D06F 39/14	CHEN, Min
Park, Youngbae	D06F 37/28	WANG, Wei (PDC)
Kim, Jimaeng	D06F 39/12	ALMENDROS CARMONA, Ismael Jesus
Jang, Yongwoon	D06F 37/42	WANG, Beibei
(31) 20130037105	(11) EP3296443	(31) 201710300066
(32) 04.04.2013	(21) EP16792873.8	(32) 02.05.2017
(33) Korea (Republic)	(47) 09.02.2022	(33) China
(51) D06F 37/28	(87) KR2016004280	(51) D06H 1/04
D06F 39/14	17.11.2016	D06H 7/24
(11) EP3779020	(22) 25.04.2016	B26F 1/38
(21) EP20190366.3	(54) WASHING APPARATUS	B26D 5/00
(47) 09.02.2022	(73) LG Electronics Inc.	(11) EP3529412
(22) 10.08.2020	(72) PARK, Seungchul	(21) EP17797752.7
(54) DOOR-IN-DOOR DESIGN	KIM, Dongwon	(47) 09.02.2022
(73) Whirlpool Corporation	JO, Mingyu	(87) IB2017056500
(72) Patil, Bhushan Vijay	(31) 20150064508	26.04.2018
PS, Thiyagu	(32) 08.05.2015	(22) 19.10.2017
Prasad, Jyothi P.	(33) Korea (Republic)	(54) METHOD AND SYSTEM FOR AUTOMATIC CUTTING OF FABRIC
Attar, Mohsin M.	(51) D06F 58/22	(73) Morgan Tecnica S.p.A.
Fischer, Marcus R.	(11) EP3562988	(72) GIACHETTI, Fabrizio
Upasani, Vaibhav	(21) EP16822703.1	(31) 201600105846
Dawange, Jalindar S.	(47) 09.02.2022	(32) 20.10.2016
(31) 202016899745	(87) EP2016082882	(33) Italy
201962885924 P	05.07.2018	(51) D06M 13/10
(32) 12.06.2020	(22) 29.12.2016	(11) EP3470574
13.08.2019	(54) A LAUNDRY DRYER COMPRISING A FILTER ASSEMBLY AND A METHOD TO CLEAN A FILTER ASSEMBLY	(21) EP18203779.6
(33) United States of America	(73) Electrolux Appliances Aktiebolag	(47) 09.02.2022
United States of America	(72) EDENIUS, Michael	(22) 23.01.2015
(51) D06F 39/02	REID, Nicola	(54) A COMPOSITION, A METHOD FOR PREPARING SAID COMPOSITION, A METHOD FOR PREPARING A RIGIDIFIED FABRIC, THE RIGIDIFIED FABRIC SO OBTAINED, A FILTRATION DEVICE, METHODS FOR THE MANUFACTURE OF THE FILTRATION DEVICE, INSTALLATION, PROCESS AND USE OF SAID FILTRATION DEVICE FOR THE FILTRATION OF A LIQUID METAL OR AN ALLOY THEREOF
D06F 39/08	MAZZAROTTO, Nadir	(73) Les Produits Industriels de Haute Temperature Pyrotek Inc.
(11) EP3732322	ROSSI, Giuseppe	(72) LACASSE, Maurice
(21) EP18833041.9	DAL MOLIN, Rudy	GOUIN, Marcel
(47) 09.02.2022	MISSIO, Gabriele	(31) 201461930800 P
(87) EP2018086453	(51) D06F 58/22	(32) 23.01.2014
04.07.2019	D06F 25/00	(33) United States of America
(22) 21.12.2018	(11) EP3575482	(51) D21H 27/00
(54) WASHING MACHINE WITH DETERGENT DISSOLVING SYSTEM	(21) EP19174076.0	D21H 27/02
(73) Arçelik Anonim Sirketi	(47) 09.02.2022	D21H 27/30
(72) KAYA, Mehmet	(22) 13.05.2019	B31F 1/07
KASAP, Fatih	(54) LAUNDRY TREATMENT APPARATUS HAVING A FILTER DEVICE	(11) EP3596269
SENDINC, Turan	(73) BSH Hausgeräte GmbH	(21) EP17710525.1
KARAOSMANOGLU, Eda	(72) Seyring, Mike	
ILICA, Samet	Hennig, Holger	
ELGUN, Murat	Bömmels, Ralf	
(31) 201721860	Schubert, Martin	
(32) 26.12.2017	Thümmeler, Andreas	
(33) Turkey	(31) 102018208559	
(51) D06F 39/02	(32) 30.05.2018	
D06F 39/14	(33) Germany	
D06F 25/00	(51) D06F 103/38	
D06F 103/20	D06F 58/46	
D06F 105/02	D06F 103/40	

(47) 09.02.2022	(47) 09.02.2022	(32) 04.01.2017
(87) EP2017055795	(22) 09.10.2020	(33) European Patent Office (EPO)
20.09.2018	(54) GABION FOR THREE CHAMBER	(51) E03D 11/08
(22) 13.03.2017	GABIONS	(11) EP3085842
(54) MULTI-PLY TISSUE PAPER PRODUCT	(73) Deutschle, Wolfgang	(21) EP14871098.1
AND METHOD OF MANUFACTURING	(72) Deutschle, Wolfgang	(47) 09.02.2022
THE SAME	(31) 102019007637	(87) JP2014006248
(73) ESSITY HYGIENE AND HEALTH	202019004411 U	25.06.2015
AKTIEBOLAG	(32) 02.11.2019	(22) 16.12.2014
(72) ENGGASSER, Yves	25.10.2019	(54) FLUSH TOILET
BALTASE, Steve	(33) Germany	(73) Panasonic Intellectual Property
ROESCH, Frédéric	Germany	Management Co., Ltd.
JEANNOT, Sébastien	(51) E02F 9/24	(72) MATSUNAGA, Hiroshi
BARREDO, Donald	E02F 9/26	(31) 2014107311
PLEYBER, Emilie	(11) EP3572590	2013262709
(51) E01C 11/22	(21) EP18905890.2	(32) 23.05.2014
E03F 3/04	(47) 09.02.2022	19.12.2013
(11) EP3321421	(87) JP2018010084	(33) Japan
(21) EP17201916.8	19.09.2019	Japan
(47) 09.02.2022	(22) 14.03.2018	(51) E03F 5/10
(22) 15.11.2017	(54) WORK MACHINE	E03F 9/00
(54) A SLOT DRAIN	(73) Hitachi Construction Machinery Co., Ltd.	(11) EP3650606
(73) Lateral Design Studio Ltd	(72) KUROKAMI, Kazushige	(21) EP19207946.5
(72) Harte, John	TOKITA, Shigeki	(47) 09.02.2022
(31) 201619350	SAKAMOTO, Hiroshi	(22) 08.11.2019
(32) 15.11.2016	(51) E02F 9/26	(54) STORM DRAIN WITH TILTING
(33) United Kingdom	G01V 1/38	SHUTTER IN WHICH ACTUATION IS
(51) E01C 19/28	G01S 15/02	REMOTE CONTROLLED
E01C 19/34	(11) EP3087225	(73) Sikora, Bernard
E01C 19/38	(21) EP14821649.2	(72) Sikora, Bernard
B06B 1/16	(47) 09.02.2022	(31) 1871430
E02D 3/074	(87) EP2014079062	(32) 09.11.2018
(11) EP3765672	02.07.2015	(33) France
(21) EP19709847.8	(22) 22.12.2014	(51) E04B 1/348
(47) 09.02.2022	(54) DEVICE AND METHOD FOR	(11) EP3524743
(87) EP2019054603	OBTAINING INFORMATION ABOUT	(21) EP19156402.0
19.09.2019	THE GROUND OF AN AREA FOR	(47) 09.02.2022
(22) 25.02.2019	DREDGING	(22) 11.02.2019
(54) COMPACTOR DEVICE SYSTEM	(73) Baggerwerken Decloedt en Zoon	(54) PREFABRICATED BATHROOM
AND METHOD FOR OPERATING A	(72) BOEL, Simon, Lodewijk, Maria, René	(73) Green Box A/S
COMPACTOR DEVICE SYSTEM	VERSTRAELEN, Luk	(72) JEPPESEN, Mogens
(73) Generator.Technik.Systeme GmbH & Co.	(31) 201300817	(31) PA201800061
Kg	(32) 23.12.2013	(32) 09.02.2018
(72) STEIDLE, Peter	(33) Belgium	(33) Denmark
(31) 102018203900	(51) E03C 1/02	(51) E04B 1/68
(32) 14.03.2018	(11) EP3848517	E06B 1/62
(33) Germany	(21) EP20150755.5	F16J 15/02
(51) E02B 3/10	(47) 09.02.2022	(11) EP3425132
(11) EP3356606	(22) 08.01.2020	(21) EP17179860.6
(21) EP16763857.6	(54) FLUID DISTRIBUTOR UNIT FOR	(47) 09.02.2022
(47) 09.02.2022	SANITARY REPLACEMENT FITTINGS	(22) 05.07.2017
(87) EP2016071575	(73) Flühs Drehtechnik GmbH	(54) INSTALLATION ARRANGEMENT OF
06.04.2017	(72) Thurau, Friedrich	A SEALING STRIP FOR SEALING A
(22) 13.09.2016	WENDT, Jörg	JOINT BETWEEN A FRAME MEMBER
(54) A WATER BARRIER FOOT ELEMENT,	(51) E03C 1/122	AND A STRUCTURE
A WATER BARRIER SHIELD SUPPORT	F16L 55/054	(73) ISO-Chemie GmbH
ELEMENT, A WATER BARRIER SHIELD	(11) EP3565930	(51) E04B 2/74
SYSTEM AND A METHOD FOR	(21) EP17825623.6	E04B 2/78
MANUFACTURING A WATER BARRIER	(47) 09.02.2022	(11) EP3397822
FOOT ELEMENT	(87) IB2017058111	(21) EP16831761.8
(73) Inero AB	27.09.2018	(47) 09.02.2022
(72) NERO, Ingvar	(22) 19.12.2017	(87) IT2016000268
(31) 1551261	(54) AIR PRESSURE ATTENUATION	06.07.2017
(32) 02.10.2015	DEVICE	(22) 17.11.2016
(33) Sweden	(73) Heriot-Watt University	(54) MODULAR WALL FOR HEALTH
(51) E02D 29/02	(72) CAMPBELL, David Paul	DEPARTMENTS
(11) EP3819436	GORMLEY, Michael	(73) Bresciani, Elisa
(21) EP20000367.1	(31) 17000011	

(72) Bresciani, Elisa	(32) 02.03.2018	(51) E04G 17/06
(31) UB20159159	15.01.2018	E04B 1/41
(32) 29.12.2015	(33) Germany	E04C 2/288
(33) Italy	Germany	E04C 2/04
(51) E04C 2/04	(51) E04F 15/04	(11) EP3068962
E04B 2/86	B32B 9/02	(21) EP14869437.5
(11) EP3628791	B32B 9/04	(47) 09.02.2022
(21) EP19197539.0	B32B 21/02	(87) US2014067427
(47) 09.02.2022	B32B 21/04	18.06.2015
(22) 16.09.2019	(11) EP3241958	(22) 25.11.2014
(54) PREFABRICATED CONSTRUCTION	(21) EP15864343.7	(54) TIE SYSTEM FOR INSULATED
ELEMENT SUCH AS A WALL WITH	(47) 09.02.2022	CONCRETE PANELS
INTEGRATED FORMWORK	(87) JP2015084209	(73) ICONX, LLC
(73) Spurgin Leonhart (Société par Actions	09.06.2016	(72) FODERBERG, Joel
Simplifiée)	(22) 04.12.2015	(31) 201414265931
(72) LENGES, Marc	(54) DECORATIVE MATERIAL USING CORK	201361915675 P
TORNATORE, Pino	SHEET	(32) 30.04.2014
(31) 1858745	(73) DAI NIPPON PRINTING CO., LTD.	13.12.2013
(32) 25.09.2018	(72) SHIMIZU, Masafumi	(33) United States of America
(33) France	DOI, Kouji	United States of America
(51) E04F 13/08	(31) 2015191979	(51) E04H 4/12
E04F 13/16	2014247339	(11) EP3715560
E04F 13/18	(32) 29.09.2015	(21) EP19165939.0
(11) EP3760811	05.12.2014	(47) 09.02.2022
(21) EP20183518.8	(33) Japan	(22) 28.03.2019
(47) 09.02.2022	Japan	(54) A SWIMMING POOL ARRANGEMENT
(22) 01.07.2020	(51) E04F 21/00	(73) Ubbink Garden B.V.
(54) MECHANISM FOR MECHANICALLY	(11) EP3314072	(72) KOELEMELJ, Robbert
COUPLING CLADDING PANELS	(21) EP16782007.5	(51) E04H 17/14
(73) Fixinox	(47) 09.02.2022	E04F 11/18
(72) RENARD, Jean-Michel	(87) DE2016100292	(11) EP3755852
HOUCHEAT, Fahem	29.12.2016	(21) EP19711005.9
(31) 201905426	(22) 27.06.2016	(47) 09.02.2022
(32) 03.07.2019	(54) JOINTING OR POINTING TOOL	(87) EP2019054496
(33) Belgium	(73) Fugentorpedo GmbH	29.08.2019
(51) E04F 15/02	(72) MUELLER, Bernd	(22) 22.02.2019
(11) EP3725974	HERRNBOECK, Matthias	(54) FENCE/RAILING/GATE ELEMENT
(21) EP20172384.8	(31) 102015115571	(73) PALIXON Holding GmbH
(47) 09.02.2022	102015113249	(72) MEYER, Dietmar
(22) 21.03.2018	102015111766	MEYER, Benjamin
(54) PANEL FOR FORMING A COVERING	102015110374	(31) 202018101013 U
(73) Flooring Industries Limited, SARL	(32) 15.09.2015	(32) 23.02.2018
(72) DE RICK, Jan Eddy	11.08.2015	(33) Germany
(31) 201762474494 P	20.07.2015	(51) E05B 47/00
(32) 21.03.2017	26.06.2015	(11) EP3699376
(33) United States of America	(33) Germany	(21) EP20154100.0
(51) E04F 15/02	Germany	(47) 09.02.2022
G08B 13/10	Germany	(22) 28.01.2020
H02J 50/10	Germany	(54) LOCK CONTROLLED BY MAGNETS
A61B 5/11	(51) E04G 11/36	(73) ASSA ABLOY France SAS
F21V 33/00	E04G 21/32	(72) GOSSIAUX, Alexandre
G08B 21/04	(11) EP3121350	JULIEN, Hervé
G07C 9/00	(21) EP16180211.1	ROBIN, Hervé
(11) EP3511482	(47) 09.02.2022	(31) 1901694
(21) EP18210985.0	(22) 19.07.2016	(32) 20.02.2019
(47) 09.02.2022	(54) PREFABRICATED FORMWORK	(33) France
(22) 07.12.2018	ELEMENT, FORMWORK OBTAINED	(51) E05B 47/00
(54) COVERING ELEMENT AND SYSTEM	AND METHOD FOR MANUFACTURING	E05B 51/00
WITH AT LEAST ONE COVERING	A SLAB OF A CONSTRUCTION WITH A	E05B 51/02
ELEMENT	PASS THROUGH OPENING DELIMITED	E05B 65/10
(73) Parador GmbH	BY SAID FORMWORK	(11) EP3728767
(72) Petersen, Frank	(73) Lesage Developpement S.A.S.	(21) EP18833365.2
Verstegge, Christian	(72) BOICHON, Emmanuel	(47) 09.02.2022
Damiecki, David	THOUVENIN, Ludovic	(87) US2018066020
Wolf, Matthias	TISSANDIE, Mickael	27.06.2019
Paschert, Martin	(31) 1557082	(22) 17.12.2018
(31) 102018001649	(32) 24.07.2015	
102018000288	(33) France	

(54) ELECTRICALLY OPERATED DOOR STRIKE WITH THERMALLY RESPONSIVE ELEMENT	(47) 09.02.2022 (22) 23.11.2017	ELEMENT AND METHOD FOR ITS MANUFACTURING
(73) Trine Access Technology	(54) LIFTING HINGE FOR SHOWER DOORS	(73) Technoform Bautech Holding GmbH
(72) SCHILDWACHTER, William ORBETA, Ferdinand	(73) Hafa Bathroom Group AB (72) UPPMAN, Linda	(72) ORTUZAR, Xavier HEZHOU, Ye
(31) 201762608893 P	(51) E05F 5/02 E05F 1/12 E05F 3/20	CEMALOVIC, Igor JIANGFENG, Wang
(32) 21.12.2017	(11) EP3728774	(31) 17173834
(33) United States of America	(21) EP18826557.3	(32) 31.05.2017
(51) E05B 67/38 E05B 17/14 E05B 17/00 E05B 63/00	(47) 09.02.2022 (87) EP2018084951 27.06.2019	(33) European Patent Office (EPO) (51) E06B 7/215 (11) EP3284896 (21) EP16193809.7
(11) EP3523492	(22) 14.12.2018	(47) 09.02.2022
(21) EP17916604.6	(54) HINGE DEVICE WITH DAMPENING OF END STROKES	(22) 13.10.2016
(47) 09.02.2022	(73) C.M.I. Cerniere Meccaniche Industriali S.r.L.	(54) SCISSOR ELEMENT FOR A SCISSOR MECHANISM FOR A SEAL
(87) IB2017056305 10.01.2019	(72) GHERARDI, Eros	(73) Athmer oHG
(22) 12.10.2017	(31) 201700146007	(72) LUDWIG, Maico
(54) LOCKING DEVICE	(32) 18.12.2017	(31) 16184708
(73) Loto Safety Products DMCC	(33) Italy	(32) 18.08.2016
(72) QIYANG, Lai	(51) E05F 15/689	(33) European Patent Office (EPO)
BHANPURAWALA, Yusufi, Fakhruddin SHAHPURWALA, Qaid, Zohar, Zakiuddin	(11) EP3757339	(51) E06B 7/215
(31) 201741023938	(21) EP20181872.1	(11) EP3699385
(32) 07.07.2017	(47) 09.02.2022	(21) EP19216649.4
(33) India	(22) 24.06.2020	(47) 09.02.2022
(51) E05C 3/04 E05B 13/00 E05B 9/08 E05B 9/00 E05B 5/00 E05B 17/10	(54) OBJECT MOVING DEVICE	(22) 16.12.2019
(11) EP3707327	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA HI-LEX CORPORATION	(54) AUTOMATIC DOOR SEAL WITH AT LEAST ONE HOLDING MEANS, AT LEAST ONE SHEAR MECHANISM WITH TWO SHEAR ELEMENTS AND A SEALING STRIP
(21) EP18812450.7	(72) TAKAOKA, Hiroyuki NAGASAKI, Tetsuya	(73) Athmer oHG
(47) 09.02.2022	(31) 2019120116	(72) Hartung, Sergej Kowski, Julian
(87) US2018059357 16.05.2019	(32) 27.06.2019	Ludwig, Maico
(22) 06.11.2018	(33) Japan	(31) 19166220 19158350
(54) LEVER COMPRESSION LATCH	(51) E06B 1/02 E06B 1/32 E06B 3/54 E06B 1/60	(32) 29.03.2019 20.02.2019
(73) Southco, Inc.	(11) EP3674507	(33) European Patent Office (EPO)
(72) MANLY, Jonathan Edward	(21) EP19214696.7	European Patent Office (EPO)
TIEU, Loc Ba FORD, James Joseph KELLY, David Jonathan	(47) 09.02.2022 (22) 10.12.2019	(51) E06B 9/174
(31) 201762584426 P	(54) BUILT-IN ELEMENT, DOOR SYSTEM COMPRISING A BUILT-IN ELEMENT AND METHOD FOR ASSEMBLING A BUILT-IN ELEMENT	(11) EP3759302
(32) 10.11.2017	(73) dormakaba Deutschland GmbH	(21) EP19757647.3
(33) United States of America	(72) Höher, Ralf Finke, Andreas Liebscher, Arne	(47) 09.02.2022
(51) E05D 15/06	(31) 102018133597	(87) IB2019051492 29.08.2019
(11) EP2851497	(32) 26.12.2018	(22) 25.02.2019
(21) EP14183565.2	(33) Germany	(54) CONNECTION HEAD OF AN APPARATUS FOR ACTUATING ROLL-UP AWNINGS OR BLACKOUT CLOSURES
(47) 09.02.2022	(51) E06B 3/263 E06B 3/20 E06B 3/26 E06B 3/02 E06B 3/56	(73) Cherubini S.p.A. (72) CHERUBINI, Lionello GERLINZANI, Matteo
(22) 04.09.2014	(11) EP3631135	(31) 201800003023
(54) Adjustable mounting device for a sliding element and sliding device	(21) EP18729621.5	(32) 26.02.2018
(73) Hawa Sliding Solutions AG	(47) 09.02.2022	(33) Italy
(72) Haab, Gregor Yezza, Nejib Ettmüller, Peter Kappeler, Myrta	(87) EP2018064293 06.12.2018	(51) E06B 11/08
(31) 13185056	(22) 30.05.2018	(11) EP3181801
(32) 18.09.2013	(54) PROFILE FOR WINDOW, DOOR, FACADE AND CLADDING	(21) EP16202473.1
(33) European Patent Office (EPO)		(47) 09.02.2022
(51) E05F 1/06 E05D 11/10 A47K 3/36		(22) 06.12.2016
(11) EP3489444		(54) ACCESS MANAGEMENT SYSTEM TO A VEHICLE FOR THE PUBLIC TRANSPORT OF PERSONS, AND RELATED VEHICLE
(21) EP17203319.3		

(73) Saima SPA	25.07.2019	(21) EP20200534.4
(72) RINALDI, Rinaldo	(22) 11.01.2019	(47) 09.02.2022
(31) UB20159257	(54) SUBSEA ACTUATOR WITH OVERRIDE	(22) 07.10.2020
(32) 18.12.2015	FUNCTION, AS WELL AS A METHOD	(54) PRETENSIONING ANCHOR FOR
(33) Italy	OF OPERATING AN ACTUATOR	SECURING A GEOLOGICAL
(51) E06C 1/12	(73) FMC Kongsberg Subsea AS	FORMATION
(11) EP3508682	(72) ROKNE, Øivind	(73) HTB Baugesellschaft m.b.H.
(21) EP17844804.9	TANDBERG, Geir	(72) VENIER, Manuel
(47) 09.02.2022	(31) 20180084	(31) 12119 U
(87) CN2017071690	(32) 18.01.2018	(32) 17.10.2019
08.03.2018	(33) Norway	(33) Austria
(22) 19.01.2017	(51) E21B 43/10	(51) F01C 21/10
(54) SHOCK-ABSORBING GUIDING	E21B 23/00	F04C 18/344
STRUCTURE FOR EXTENSION TUBE	E21B 23/01	F04C 25/02
(73) Dongguan Prestige Sporting Products	(11) EP3423673	(11) EP3617449
Co., Ltd.	(21) EP16892843.0	(21) EP19215663.6
(72) ZHANG, Zhao	(47) 09.02.2022	(47) 09.02.2022
(31) 201621017313 U	(87) US2016020042	(22) 12.12.2019
(32) 31.08.2016	08.09.2017	(54) ROTARY VANE VACUUM PUMP
(33) China	(22) 29.02.2016	(73) PFEIFFER VACUUM GMBH
(51) E21B 19/00	(54) COLLAPSIBLE CONE FOR AN	(72) Schneider, Thomas
B66C 13/02	EXPANDABLE LINER HANGER	(51) F01D 5/08
B66C 23/53	SYSTEM	F01D 5/18
(11) EP3803030	(73) Halliburton Energy Services, Inc.	(11) EP3054093
(21) EP19732253.0	(72) MORENO, Carlos Alberto	(21) EP16154874.8
(47) 09.02.2022	KOHN, Gary Allen	(47) 09.02.2022
(87) DK2019050176	(51) E21B 47/00	(22) 09.02.2016
12.12.2019	G01V 1/40	(54) ARRANGEMENT OF TRIP STRIPS
(22) 06.06.2019	G01V 1/50	(73) Raytheon Technologies Corporation
(54) METHOD AND SYSTEM FOR	G06T 17/05	(72) PIETRASZKIEWICZ, Edward F.
MITIGATING CABLE WEAR IN A	G01V 1/30	KING, Christopher
HOISTING SYSTEM	(11) EP3247878	(31) 201514616999
(73) Maersk Drilling A/S	(21) EP16737882.7	(32) 09.02.2015
(72) E. HANSEN, Kristian	(47) 09.02.2022	(33) United States of America
HOLCK, Jesper	(87) US2016013414	(51) F01D 5/08
(31) PA201800262	21.07.2016	F02C 6/08
(32) 06.06.2018	(22) 14.01.2016	(11) EP3710679
(33) Denmark	(54) PERFORMING TOMOGRAPHY TO	(21) EP18803404.5
(51) E21B 23/14	BUILD ORTHORHOMBIC MODELS	(47) 09.02.2022
E21B 23/00	(73) Schlumberger Technology B.V.	(87) EP2018081003
F16L 101/30	(72) NICHOLS, David	23.05.2019
(11) EP3732346	DECKER, Marvin	(22) 13.11.2018
(21) EP18840012.1	KAINKARYAM, Sribharath	(54) DEVICE FOR HOLDING A RADIAL
(47) 09.02.2022	BLOOR, Robert	CENTRIPETAL AIR SAMPLING
(87) US2018068155	(31) 201614994908	MEMBER
04.07.2019	201562103423 P	(73) Safran Aircraft Engines
(22) 31.12.2018	(32) 13.01.2016	(72) BENDERRADJI, Kamel
(54) DOWNHOLE MOBILITY MODULE FOR	14.01.2015	BROMANN, Alain, Marc, Lucien
LOGGING AND INTERVENTION OF	(33) United States of America	DELAHAYE, Thomas, Nolwenn,
EXTENDED REACH WELLS	United States of America	Emmanuel
(73) HONEYBEE ROBOTICS, LTD.	(51) E21D 9/00	GOMES PEREIRA, Liliana
Saudi Arabian Oil Company	(11) EP3701126	PARENT, Delphine, Hermance, Maxime
(72) SAEED, Abubaker	(21) EP19730286.2	(31) 1760693
SHASHO, Jeff	(47) 09.02.2022	(32) 14.11.2017
HERMAN, Jason	(87) EP2019064732	(33) France
SADICK, Shazad	12.12.2019	(51) F01D 5/14
MAKSYMUK, Michael	(22) 05.06.2019	F01D 5/28
WILSON, John	(54) TUNNEL BORING MACHINE AND	F01D 9/04
ABDELAZIZ, Mohannad	TUNNELLING METHOD	F01D 25/16
(31) 201762611783 P	(73) HERRENKNECHT	F04D 29/54
(32) 29.12.2017	AKTIENGESELLSCHAFT	F04D 29/66
(33) United States of America	(72) WEISER, Torsten	(11) EP3477057
(51) E21B 34/02	(31) 102018113788	(21) EP18306419.5
F16K 3/02	(32) 08.06.2018	(47) 09.02.2022
(11) EP3740651	(33) Germany	(22) 30.10.2018
(21) EP19700478.1	(51) E21D 21/00	(54) MODULATION OF SERRATIONS AT
(47) 09.02.2022	E02D 5/80	BLADE END
(87) EP2019050627	(11) EP3808934	(73) SAFRAN AIRCRAFT ENGINES

(72) LEMARECHAL, Eric Pierre Georges BULOT, Benjamin POLACSEK, Cyril FIGEUREU, Claire Marie BARRIER, Raphaël GRUBER, Mathieu Simon Paul	17.10.2019 (22) 28.03.2019 (54) COOLING DEVICE FOR A TURBINE OF A TURBINE ENGINE (73) SAFRAN AIRCRAFT ENGINES (72) MORLIERE, Simon, Nicolas GIRARDEAU, Julian, Nicolas ABADIE, Ghislain, Hervé PRESTEL, Sebastien, Jean, Laurent GILLOT, Benjamin, Franklin, François	(73) Siemens Gamesa Renewable Energy A/S (72) SEIDEL, Volker BARMEIER, Till Andreas STIESDAL, Henrik (31) 14187091 (32) 30.09.2014 (33) European Patent Office (EPO)
(31) 1760212 (32) 30.10.2017 (33) France	(31) 1853059 (32) 09.04.2018 (33) France	(51) F01M 1/06 F01M 1/02 F16N 27/00 F01M 1/16 F01M 11/02
(51) F01D 5/20 (11) EP3669054 (21) EP17755020.9 (47) 09.02.2022 (87) US2017046694 21.02.2019 (22) 14.08.2017 (54) TURBINE BLADE AND CORRESPONDING METHOD OF SERVICING (73) Siemens Energy Global GmbH & Co. KG (72) WILLIAMSON, Stephen JIANG, Nan	(51) F01D 25/02 F01D 25/14 F02C 7/14 F02C 9/18 F02K 1/82 F02K 3/06 F02K 3/075 F02K 3/115 B64D 13/08 (11) EP3385510 (21) EP18172482.4 (47) 09.02.2022 (22) 16.03.2012 (54) CONTROL METHOD FOR OPERATING A PRECOOLER IN AN AIRCRAFT AND AIRCRAFT ENGINE (73) Airbus Canada Limited Partnership (72) HAMEL, Remi AFRIANTO, Sigit DESILETS, Valerie BROUSSEAU, Jean	(51) F01M 1/02 F01M 11/00 (31) 102017117516 (32) 02.08.2017 (33) Germany
(51) F01D 5/34 F01D 11/00 F04D 29/32 (11) EP3768950 (21) EP19718432.8 (47) 09.02.2022 (87) FR2019050616 26.09.2019 (22) 19.03.2019 (54) BLADED DISK FLEXIBLE IN THE LOWER PART OF THE BLADES (73) SAFRAN AIRCRAFT ENGINES (72) LAFITTE, Anthony PERROLLAZ, Jean-Marc, Claude JOLY, Philippe, Gérard, Edmond COMIN, François, Jean JABLONSKI, Laurent MERCIER, Rémi, Roland, Robert	(22) 16.03.2012 (54) CONTROL METHOD FOR OPERATING A PRECOOLER IN AN AIRCRAFT AND AIRCRAFT ENGINE (73) Airbus Canada Limited Partnership (72) HAMEL, Remi AFRIANTO, Sigit DESILETS, Valerie BROUSSEAU, Jean (31) 201161453657 P (32) 17.03.2011 (33) United States of America (51) F01D 25/02 F04D 29/02 F04D 29/54 F02C 7/047 (11) EP3409906 (21) EP18170917.1 (47) 09.02.2022 (22) 04.05.2018 (54) DE-ICING OF A LEADING EDGE OF A TURBOMACHINE BY PNEUMATIC MEANS (73) Safran Aero Boosters SA (72) RAIMARCKERS, Nicolas (31) 201705388 (32) 31.05.2017 (33) Belgium	(51) F01M 11/00 F01M 11/03 (11) EP3498992 (21) EP16913396.4 (47) 09.02.2022 (87) CN2016106359 22.02.2018 (22) 18.11.2016 (54) INTERNAL COMBUSTION ENGINE, LUBRICATION SYSTEM, AND ENGINE OIL STRAINER (73) Weichai Power Co., Ltd. (72) CUI, Jingpeng CUI, Yong SHEN, Jiawei LI, Jianwen (31) 201610674143 (32) 15.08.2016 (33) China
(31) 1852337 (32) 19.03.2018 (33) France	(51) F01D 25/02 F04D 29/02 F04D 29/32 (11) EP3677752 (21) EP19220063.2 (47) 09.02.2022 (22) 30.12.2019 (54) IMPROVED SEAL ASSEMBLY FOR AN INTER-BLADE PLATFORM (73) SAFRAN SAFRAN AIRCRAFT ENGINES (72) EDYNAK, Jérémy Philippe Pierre GUIVARC'H, Jérémy GIRARD, Thibaut Dominique Augustin FAIVRE D'ARCIER, Pierre Jean AULIAC, Lola	(51) F01M 11/00 F01M 11/03 F01N 3/035 F01N 3/28 F01N 13/00 B60K 13/04 F01N 3/021 F01N 3/10 F01N 3/20 F01N 13/10 F01N 13/18 (11) EP3699407 (21) EP17929391.5 (47) 09.02.2022 (87) CN2017114958 25.04.2019 (22) 07.12.2017 (54) GENERALIZED INTEGRATED DOC-DPF-SCR AFTER-TREATMENT APPARATUS (73) Weichai Power Co., Ltd. Weichai Power Emission Solutions Technology Co., Ltd.
(31) 1900080 (32) 04.01.2019 (33) France	(11) EP3172413 (21) EP15741761.9 (47) 09.02.2022 (87) EP2015055957 07.04.2016 (22) 20.03.2015 (54) POWER PLANT WITH STEAM CYCLE AND WITH A HIGH TEMPERATURE THERMAL ENERGY EXCHANGE SYSTEM AND METHOD FOR MANUFACTURING THE POWER PLANT	(51) F01M 1/06 F01M 1/02 F16N 27/00 F01M 1/16 F01M 11/02 (11) EP3438424 (21) EP18182197.6 (47) 09.02.2022 (22) 06.07.2018 (54) DEVICE FOR LUBRICATING AN ENGINE (73) MAN Truck & Bus SE (72) Renner, Dominik Malischewski, Thomas (31) 102017117516 (32) 02.08.2017 (33) Germany
(51) F01D 11/24 F02C 7/32 (11) EP3775498 (21) EP19719905.2 (47) 09.02.2022 (87) FR2019050715	(51) F01D 25/02 F01D 25/14 F02C 7/14 F02C 9/18 F02K 1/82 F02K 3/06 F02K 3/075 F02K 3/115 B64D 13/08 (11) EP3385510 (21) EP18172482.4 (47) 09.02.2022 (22) 16.03.2012 (54) CONTROL METHOD FOR OPERATING A PRECOOLER IN AN AIRCRAFT AND AIRCRAFT ENGINE (73) Airbus Canada Limited Partnership (72) HAMEL, Remi AFRIANTO, Sigit DESILETS, Valerie BROUSSEAU, Jean (31) 201161453657 P (32) 17.03.2011 (33) United States of America (51) F01D 25/02 F04D 29/02 F04D 29/54 F02C 7/047 (11) EP3409906 (21) EP18170917.1 (47) 09.02.2022 (22) 04.05.2018 (54) DE-ICING OF A LEADING EDGE OF A TURBOMACHINE BY PNEUMATIC MEANS (73) Safran Aero Boosters SA (72) RAIMARCKERS, Nicolas (31) 201705388 (32) 31.05.2017 (33) Belgium	(51) F01M 11/00 F01M 11/03 (11) EP3498992 (21) EP16913396.4 (47) 09.02.2022 (87) CN2016106359 22.02.2018 (22) 18.11.2016 (54) INTERNAL COMBUSTION ENGINE, LUBRICATION SYSTEM, AND ENGINE OIL STRAINER (73) Weichai Power Co., Ltd. (72) CUI, Jingpeng CUI, Yong SHEN, Jiawei LI, Jianwen (31) 201610674143 (32) 15.08.2016 (33) China

GAO, Wei	(11) EP2960467	JIANG, Li
WANG, Dongsheng	(21) EP15174218.6	OU DART, Joel
(31) 201710971629	(47) 09.02.2022	(31) 201462098137 P
(32) 18.10.2017	(22) 29.06.2015	(32) 30.12.2014
(33) China	(54) SIMPLIFIED ENGINE BLEED	(33) United States of America
(51) F01N 3/10	SUPPLY WITH LOW PRESSURE	(51) F02D 41/04
B01D 53/78	ENVIRONMENTAL CONTROL SYSTEM	F02N 19/00
B01D 53/56	FOR AIRCRAFT	F02D 41/00
F01N 13/00	(73) Raytheon Technologies Corporation	F02D 9/02
F01N 3/08	(72) Schwarz, Frederick M.	(11) EP3084190
F01N 3/04	Suciu, Gabriel L.	(21) EP14814889.3
B01D 53/86	(31) 201462018154 P	(47) 09.02.2022
B01D 53/90	(32) 27.06.2014	(87) EP2014078519
(11) EP3631178	(33) United States of America	25.06.2015
(21) EP18731224.4	(51) F02C 7/12	(22) 18.12.2014
(47) 09.02.2022	F02C 7/18	(54) IMPROVEMENTS TO ENGINE
(87) NL2018050352	F01D 25/12	SHUTDOWN AND RESTART
06.12.2018	F04D 29/58	(73) Jaguar Land Rover Limited
(22) 30.05.2018	(11) EP3036418	(72) EDINGTON, Ian
(54) PROCESS AND APPARATUS FOR	(21) EP14837738.5	MOORCROFT, Adam
REDUCING NOX EMISSIONS	(47) 09.02.2022	(31) 201322591
(73) Koninklijke De Vries Scheepsbouw B.V.	(87) US2014050839	(32) 19.12.2013
(72) MORETZ-SOHN MONTEIRO, Juliana	26.02.2015	(33) United Kingdom
Garcia	(22) 13.08.2014	(51) F02F 3/22
VAN WILLEGEM, Joost	(54) GAS TURBINE ENGINE	F16J 9/22
KOEVOET, Jan	(73) Raytheon Technologies Corporation	(11) EP3511556
DUYZER, Jan H.	(72) STEVENS, Michael S.	(21) EP19151407.4
(31) 2018994	BLANEY, Ken F.	(47) 09.02.2022
(32) 30.05.2017	(31) 201361867192 P	(22) 11.01.2019
(33) Netherlands	(32) 19.08.2013	(54) PISTON FOR INTERNAL COMBUSTION
(51) F01N 3/20	(33) United States of America	ENGINE
F01N 3/021	(51) F02C 7/36	(73) Dong Yang Piston Co., Ltd.
F01N 13/00	F01D 15/10	(72) RYU, Kwan Ho
F02D 13/02	F02C 3/067	JUN, Sang Hyuk
F02B 25/02	H02K 7/18	PARK, Jang Ik
(11) EP3754164	(11) EP3810912	YANG, Jun Kui
(21) EP19180756.9	(21) EP19731298.6	SHIM, Woo Seok
(47) 09.02.2022	(47) 09.02.2022	YOO, In Cheol
(22) 18.06.2019	(87) EP2019066434	(31) 20180004447
(54) INTERNAL COMBUSTION ENGINE	26.12.2019	(32) 12.01.2018
AND METHOD FOR REDUCING	(22) 21.06.2019	(33) Korea (Republic)
PARTICULATE MATTER EMISSIONS	(54) HYBRID TRANSMISSION TURBOJET	(51) F02F 7/00
(73) Winterthur Gas & Diesel Ltd.	ENGINE	F16C 9/02
(72) Lehner, Adrian	(73) Safran Aero Boosters SA	F16C 17/02
(51) F01P 7/16	(72) MALJEAN, Stéphane	(11) EP3418544
B60L 50/61	(31) 201805439	(21) EP17779049.0
F02D 31/00	(32) 22.06.2018	(47) 09.02.2022
F02D 41/14	(33) Belgium	(87) JP2017013522
F02N 11/04	(51) F02D 41/02	12.10.2017
B60W 20/00	F02D 41/30	(22) 31.03.2017
F01P 7/14	F02D 41/26	(54) CYLINDER BLOCK AND INTERNAL
B60L 1/02	F02P 5/15	COMBUSTION ENGINE PROVIDED
B60L 50/16	F02P 9/00	WITH SAME
F02D 41/06	F02B 11/00	(73) Aichi Machine Industry Co., Ltd.
(11) EP3726019	F02D 43/04	(72) KUSANO, Masamichi
(21) EP17934676.2	(11) EP3240949	TOKURA, Koichi
(47) 09.02.2022	(21) EP15876290.6	KITAMURA, Shinji
(87) JP2017045174	(47) 09.02.2022	(31) 2016077365
20.06.2019	(87) US2015068132	(32) 07.04.2016
(22) 15.12.2017	07.07.2016	(33) Japan
(54) ENGINE COOLING WATER	(22) 30.12.2015	(51) F02M 37/00
TEMPERATURE CONTROL METHOD	(54) MULTI-MODE ADVANCED	F02B 63/02
AND CONTROL APPARATUS	COMBUSTION ENGINE WITH	F02B 75/02
(73) Nissan Motor Co., Ltd.	SUPERVISORY CONTROL	F16F 1/376
(72) EGUCHI, Hiroki	(73) Robert Bosch GmbH	F16F 15/02
KOBAYASHI, Azusa	(72) JADE, Shyam	B25F 5/00
(51) F02C 6/08	RAVI, Nikhil	A01D 34/68
F02C 9/18	SCHWANKE, Jason	(11) EP3306070

(21) EP16821450.0	(32) 20.12.2017	(32) 29.10.2014
(47) 09.02.2022	(33) Denmark	01.11.2013
(87) JP2016070093	(51) F03D 1/02	(33) United States of America
12.01.2017	F03D 13/10	United States of America
(22) 07.07.2016	(11) EP3449119	(51) F04B 9/04
(54) BRUSHCUTTER	(21) EP17720670.3	F01N 3/20
(73) Mitsubishi Heavy Industries Meiki	(47) 09.02.2022	F04B 43/08
Engines Co.,Ltd.	(87) DK2017050124	F04B 17/03
(72) UENOYAMA, Kazuyuki	02.11.2017	(11) EP3081810
SHIMOGAMI, Jun	(22) 27.04.2017	(21) EP16000772.0
(31) 2015137035	(54) A METHOD FOR LIFTING A	(47) 09.02.2022
(32) 08.07.2015	COMPONENT OF A MULTIROTOR	(22) 05.04.2016
(33) Japan	WIND TURBINE	(54) PUMP FOR AN SCR SYSTEM IN
(51) F02M 55/02	(73) Vestas Wind Systems A/S	VEHICLES
F01P 11/04	(72) J.B.K. JENSEN, Ivar	(73) Niethammer, Bernd
F02F 1/24	PEDERSEN, Gunnar K. Storgaard	(72) Niethammer, Bernd
F02M 69/46	BAUN, Torben Ladegaard	(31) 102015004868
(11) EP3724485	(31) 201670279	(32) 13.04.2015
(21) EP17821671.9	(32) 29.04.2016	(33) Germany
(47) 09.02.2022	(33) Denmark	(51) F04B 15/00
(87) FI2017050891	(51) F03D 1/02	F04B 19/24
20.06.2019	F03D 13/20	F04B 37/02
(22) 14.12.2017	F03D 80/00	F04B 37/18
(54) A PISTON ENGINE EQUIPPED WITH A	(11) EP3807518	F04B 19/06
FLUID DISTRIBUTION ELEMENT	(21) EP19732538.4	(11) EP3728848
(73) Wärtsilä Finland Oy	(47) 09.02.2022	(21) EP18800225.7
(72) SYVÄLUOMA, Panu	(87) DK2019050189	(47) 09.02.2022
(51) F03C 1/34	19.12.2019	(87) EP2018081628
F03C 1/40	(22) 14.06.2019	27.06.2019
F03C 1/047	(54) A MULTIROTOR WIND TURBINE	(22) 16.11.2018
F03C 1/053	(73) VESTAS WIND SYSTEMS A/S	(54) METAL HYDRIDE COMPRESSOR
B60K 7/00	(72) BAUN, Torben Ladegaard	CONTROL DEVICE AND METHOD
(11) EP3784901	SCHOMACKER, Jonas Lerche	(73) ECOLE POLYTECHNIQUE FEDERALE
(21) EP19733839.5	JØRGENSEN, Brian	DE LAUSANNE (EPFL)
(47) 09.02.2022	HOLTEN-MØLLER, Per	(72) ZÜTTEL, Andreas
(87) FR2019050971	(31) PA201870409	GALLANDAT, Noris
31.10.2019	(32) 15.06.2018	(31) 17209981
(22) 25.04.2019	(33) Denmark	(32) 22.12.2017
(54) HYDRAULIC ARRANGEMENT FOR A	(51) F03D 7/02	(33) European Patent Office (EPO)
STEERED WHEEL OF A VEHICLE	F16C 17/10	(51) F04B 17/00
(73) Poclain Hydraulics Industrie	F03D 80/70	F04B 35/04
(72) PREDNY, Roman	F16C 33/20	F04B 53/08
MICHON, Sylvain	(11) EP3464888	(11) EP3775548
(31) 1853625	(21) EP17726637.6	(21) EP19718212.4
(32) 25.04.2018	(47) 09.02.2022	(47) 09.02.2022
(33) France	(87) EP2017063114	(87) US2019025279
(51) F03D 1/02	14.12.2017	10.10.2019
F03D 7/04	(22) 31.05.2017	(22) 02.04.2019
F03D 7/02	(54) WIND TURBINE ROTARY	(54) FLUSH PUMP AND HYDRAULIC
(11) EP3728832	CONNECTION, ROTOR BLADE, AND	SYSTEM
(21) EP18830370.5	WIND TURBINE COMPRISING SAID	(73) Carrier Corporation
(47) 09.02.2022	ROTOR BLADE	(72) KOOL, Eeuwe Durk
(87) DK2018050375	(73) Wobben Properties GmbH	VAN WIJK, Rudolph Johannes
27.06.2019	(72) MTAUWEG, Samer	(31) 201862651393 P
(22) 18.12.2018	(31) 102016210039	(32) 02.04.2018
(54) THRUST BALANCE CONTROL OF A	(32) 07.06.2016	(33) United States of America
MULTIROTOR WIND TURBINE BASED	(33) Germany	(51) F04B 43/14
ON CONSTRAINTS	(51) F03G 7/06	F04B 43/00
(73) VESTAS WIND SYSTEMS A/S	(11) EP2868923	F04B 43/04
(72) BØTTCHER, Peter	(21) EP14191185.9	(11) EP3721091
SØRENSEN, Kim Hylling	(47) 09.02.2022	(21) EP18811053.0
MIRANDA, Erik Carl Lehnkov	(22) 30.10.2014	(47) 09.02.2022
PETERSEN, Torben	(54) VARIABLE NEGATIVE STIFFNESS	(87) EP2018083704
BRØCHNER, Jacob	ACTUATION	13.06.2019
DALSGAARD, Søren	(73) Sabanci University	(22) 05.12.2018
NEUBAUER, Jesper Lykkegaard	(72) Patoglu, Volkan	(54) CONTROLLED CRINKLE DIAPHRAGM
NETO, Julio Xavier Vianna	(31) 201414527077	PUMP
(31) PA201770964	201361898755 P	(73) AMS R&D SAS

- (72) GUILLEMIN, Harold  
DREVET, Jean-Baptiste  
DELAISSE, Guy  
(31) 1761679  
(32) 05.12.2017  
(33) France
- 
- (51) F04B 53/10  
(11) EP3781817  
(21) EP18788912.6  
(47) 09.02.2022  
(87) IB2018057628  
03.10.2019  
(22) 02.10.2018  
(54) IMPROVED MINIMUM PRESSURE  
VALVE AND METHOD FOR SERVICING  
SUCH A VALVE  
(73) ATLAS COPCO AIRPOWER, naamloze  
vennootschap  
(72) MARTENS, Kristof Adrien  
DE SCHAMPHELAERE, Pieter  
(31) 201805203  
(32) 27.03.2018  
(33) Belgium
- 
- (51) F04C 2/08  
F04C 2/14  
F16C 33/24  
F16C 17/10  
F16C 33/14  
F16C 33/12  
F01C 21/02  
(11) EP3546772  
(21) EP19165210.6  
(47) 09.02.2022  
(22) 26.03.2019  
(54) HYBRID PUMP BEARING FOR  
CONTAMINATION RESISTANCE  
(73) Hamilton Sundstrand Corporation  
(72) ELDER, James S.  
RIBAROV, Lubomir A.  
VEILLEUX, Jr., Leo J.  
(31) 201815939813  
(32) 29.03.2018  
(33) United States of America
- 
- (51) F04C 11/00  
F04C 15/00  
F04D 13/12  
F04D 29/10  
F16J 15/02  
F01C 19/00  
(11) EP3343041  
(21) EP17199830.5  
(47) 09.02.2022  
(22) 03.11.2017  
(54) VANE PUMP SEAL  
(73) Hamilton Sundstrand Corporation  
(72) CAVIL, Luke  
(31) 201715397397  
(32) 03.01.2017  
(33) United States of America
- 
- (51) F04C 18/16  
F04C 29/04  
F04C 29/06  
(11) EP3351801  
(21) EP16845525.1  
(47) 09.02.2022  
(87) CN2016082363  
23.03.2017  
(22) 17.05.2016
- (54) SCREW COMPRESSOR AND  
MACHINE BODY THEREOF  
(73) Gree Electric Appliances, Inc. of Zhuhai  
(72) MENG, Qiangjun  
XU, Kang  
CHEN, Wenqing  
LI, Rihua  
ZHAO, Zhaorui  
BI, Yushi  
MA, Bin  
LIU, Hua  
ZHANG, Tianyi  
PENG, Yanhai  
LIN, Shuru  
XING, Ziwen  
YANG, Qiaoming  
(31) 201510585999  
(32) 15.09.2015  
(33) China
- 
- (51) F04D 13/06  
F04D 29/00  
H02K 11/00  
H02K 11/30  
(11) EP3835587  
(21) EP19020687.0  
(47) 09.02.2022  
(22) 10.12.2019  
(54) ELECTRONIC CONTROL SYSTEM FOR  
A CENTRIFUGAL PUMP COMPRISING  
AT LEAST ONE OPTICAL DISPLAY  
ELEMENT  
(73) WILO SE  
(72) Budy, Dominic  
Oettmeier, Martin Dr.
- 
- (51) F04D 17/12  
F04D 29/056  
F04D 29/058  
F04D 29/059  
(11) EP3042084  
(21) EP14759145.7  
(47) 09.02.2022  
(87) EP2014068620  
12.03.2015  
(22) 02.09.2014  
(54) MULTISTAGE CENTRIFUGAL  
COMPRESSOR  
(73) Nuovo Pignone S.r.l.  
(72) MICHELASSI, Vittorio  
AALBURG, Christian  
SEZAL, Ismail Hakki  
(31) FI20130208  
(32) 05.09.2013  
(33) Italy
- 
- (51) F04D 19/04  
F04D 25/06  
F04D 29/08  
(11) EP3333429  
(21) EP16203143.9  
(47) 09.02.2022  
(22) 09.12.2016  
(54) VACUUM DEVICE  
(73) PFEIFFER VACUUM GMBH  
(72) Stammer, Herbert
- 
- (51) F04D 19/04  
F04D 29/66  
F16L 27/111  
F04D 29/64  
(11) EP3447298
- (21) EP17187107.2  
(47) 09.02.2022  
(22) 21.08.2017  
(54) VIBRATION DAMPER FOR COUPLING  
A VACUUMPUMPE  
(73) PFEIFFER VACUUM GMBH  
(72) Mekota, Mirko  
Stoll, Tobias  
Schill, Michael  
Hofmann, Jan
- 
- (51) F04D 25/06  
F04D 29/42  
F04D 29/62  
(11) EP3655662  
(21) EP18737185.1  
(47) 09.02.2022  
(87) EP2018067157  
24.01.2019  
(22) 26.06.2018  
(54) SET OF PARTS AND METHOD FOR  
PRODUCING A RADIAL FAN  
(73) Ebm-Papst St. Georgen GmbH & CO.  
KG  
(72) RAGG, Peter  
(31) 102017006854  
(32) 21.07.2017  
(33) Germany
- 
- (51) F04D 25/08  
F04D 29/32  
F04D 25/06  
F04D 19/00  
(11) EP3320215  
(21) EP16822047.3  
(47) 09.02.2022  
(87) US2016041536  
12.01.2017  
(22) 08.07.2016  
(54) COMPACT AXIAL FAN  
(73) Bascom Hunter Technologies, Inc.  
(72) DECKER, John  
GONZALES CAMPOS, David  
CARL, Ralph  
(31) 201562190418 P  
(32) 09.07.2015  
(33) United States of America
- 
- (51) F04D 29/02  
F04D 29/16  
B29C 43/28  
F01D 11/12  
B05C 11/02  
B05C 17/02  
B29C 43/46  
B05C 7/00  
(11) EP3420236  
(21) EP17709157.6  
(47) 09.02.2022  
(87) FR2017050353  
31.08.2017  
(22) 17.02.2017  
(54) DEVICE FOR APPLYING ABRADABLE  
MATERIAL TO A SURFACE OF A  
TURBOMACHINE CASING  
(73) Safran Aircraft Engines  
(72) MAGNAUDEIX, Dominique, Michel,  
Serge  
MATHON, Richard  
JAUSSAUD, Raoul  
(31) 1651430

(32) 22.02.2016	(54) ARRANGEMENT WITH A FIRST	(47) 09.02.2022
(33) France	COMPONENT TO BE FIXED TO A	(87) EP2018081764
(51) F04D 29/058	SECOND COMPONENT, LIGHT AND	31.05.2019
F04D 19/04	METHOD	(22) 19.11.2018
F16C 32/04	(73) Marelli Automotive Lighting Reutlingen	(54) SEAL ASSEMBLY FOR A ROTARY
(11) EP3683449	(Germany) GmbH	FEED-THROUGH OF A WHEEL
(21) EP19217633.7	(72) FRITZ, Oliver	BEARING OF A MOTOR VEHICLE
(47) 09.02.2022	EUCHNER, Daniel	(73) Schaeffler Technologies AG & Co. KG
(22) 18.12.2019	HEUSING, Klaus	(72) FLINT, Andreas
(54) MAGNETIC BEARING AND VACUUM	(31) 102017125712	SCHÄFER, Marc-André
APPARATUS	(32) 03.11.2017	MELLER, Dieter
(73) Pfeiffer Vacuum GmbH	(33) Germany	(31) 102017127427
(72) CONRAD, Armin	(51) F16B 5/02	(32) 21.11.2017
(51) F04D 29/32	F16B 37/00	(33) Germany
F04D 29/38	B29C 45/00	(51) F16C 19/36
F04D 29/66	B29C 33/44	F16C 33/46
(11) EP3623638	(11) EP3559481	F16C 33/58
(21) EP18820896.1	(21) EP17816972.8	F16C 33/64
(47) 09.02.2022	(47) 09.02.2022	F16C 33/66
(87) JP2018020377	(87) FR2017053361	F16C 33/36
27.12.2018	28.06.2018	(11) EP3604840
(22) 28.05.2018	(22) 04.12.2017	(21) EP18777846.9
(54) PROPELLER FAN	(54) MOTOR VEHICLE PART COMPRISING	(47) 09.02.2022
(73) Daikin Industries, Ltd.	AN ORIENTABLE THREADED BARREL	(87) JP2018012126
(72) IWATA Tooru	(73) Compagnie Plastic Omnium	04.10.2018
MARUYAMA Kaname	(72) GOMEZ, Jean-François	(22) 26.03.2018
TOMIOKA Hirota	LOUOT, Thierry	(54) TAPERED ROLLER BEARING
(31) 2017119658	DUPONNOIS, Philippe	(73) NTN Corporation
(32) 19.06.2017	(31) 1663176	(72) KAWAI, Takashi
(33) Japan	(32) 22.12.2016	MATSUSHITA, Tomoki
(51) F15B 11/02	(33) France	(31) 2017063970
F15B 11/08	(51) F16B 19/10	2017063369
E02F 9/22	(11) EP3456989	(32) 28.03.2017
(11) EP3492754	(21) EP18194425.7	28.03.2017
(21) EP18777939.2	(47) 09.02.2022	(33) Japan
(47) 09.02.2022	(22) 14.09.2018	Japan
(87) JP2018010085	(54) FASTENER SYSTEM	(51) F16C 27/04
04.10.2018	(73) Centrix Inc.	F16C 19/52
(22) 14.03.2018	(72) MCCLURE, Travis	F16C 19/54
(54) CONSTRUCTION MACHINERY	(31) 201762558762 P	F01D 21/04
(73) Hitachi Construction Machinery Co., Ltd.	(32) 14.09.2017	F01D 25/16
(72) KODAKA Katsuaki	(33) United States of America	(11) EP3715651
OGURA Kouhei	(51) F16C 11/06	(21) EP20166808.4
(31) 2017069600	F16J 3/04	(47) 09.02.2022
(32) 31.03.2017	(11) EP3726076	(22) 30.03.2020
(33) Japan	(21) EP20162932.6	(54) BEARING HOUSING
(51) F16B 5/00	(47) 09.02.2022	(73) Pratt & Whitney Canada Corp.
F16B 5/02	(22) 13.03.2020	(72) SYNNOTT, Remy
F16B 5/04	(54) SEALING BELLOW	LEFEBVRE, Guy
F16B 11/00	(73) Carl Freudenberg KG	DOYON, Francois
B62D 27/02	(72) Knorr, Rainer	(31) 201916369688
(11) EP3617043	Idies, Nedal	(32) 29.03.2019
(21) EP18192243.6	(31) 102019110034	(33) United States of America
(47) 09.02.2022	(32) 16.04.2019	(51) F16C 33/10
(22) 03.09.2018	(33) Germany	F16C 17/10
(54) FIXING DEVICE	(51) F16C 19/36	(11) EP3698059
(73) MAGNA STEYR Fahrzeugtechnik AG &	F16C 19/54	(21) EP18845480.5
Co KG	F16C 33/76	(47) 09.02.2022
(72) TAUCHER, Jürgen	F16C 33/78	(87) TR2018050596
MAIER, Stefan	F16J 15/38	25.04.2019
(51) F16B 5/02	F16J 15/32	(22) 17.10.2018
F16B 19/02	F16J 15/10	(54) A SINGLE-PIECE TURBO BEARING
F21S 41/39	F16J 15/34	(73) Supsan Motor Supaplari Sanayii Ve
(11) EP3480477	B60C 23/00	Ticaret A.S.
(21) EP18190637.1	F16C 41/00	(72) DOGRU, Ridvan
(47) 09.02.2022	B60B 27/00	ALPAYA, Mert
(22) 24.08.2018	(11) EP3713779	ÇAKIL, Semih
	(21) EP18808265.5	TEMİZ, Vedat

HAMPARYAN, Burag KAYABASI, Iskender	04.10.2018	(33) Germany
(31) 201715924	(22) 30.03.2017	Germany
(32) 17.10.2017	(54) MAIN SHAFT DEVICE	(51) F16D 65/18
(33) Turkey	(73) MAKINO MILLING MACHINE CO., LTD.	F16D 59/02
(51) F16C 33/10	(72) NEBUKA, Teppei	(11) EP3715665
F16C 35/02	KAWADA, Takeshi	(21) EP20162829.4
F01D 25/16	(51) F16D 48/06	(47) 09.02.2022
F16C 35/067	(11) EP3044471	(22) 12.03.2020
(11) EP3698060	(21) EP14771480.2	(54) ELECTROMAGNETICALLY
(21) EP18845481.3	(47) 09.02.2022	VENTILATED SPRING BRAKE AND
(47) 09.02.2022	(87) US2014054688	METHOD FOR ITS MANUFACTURE
(87) TR2018050602	12.03.2015	(73) Kendrion INTORQ GmbH
25.04.2019	(22) 09.09.2014	(72) Düning, Jochen
(22) 17.10.2018	(54) CLUTCH CONTROL WITH	(31) 102019107766
(54) A TURBO BEARING SYSTEM	INTEGRATED DIAGNOSTICS/	(32) 26.03.2019
(73) Supsan Motor Supaplari Sanayii Ve	PROGNOSTICS AND TELEMATICS	(33) Germany
Ticaret A.S.	INTERFACE	(51) F16F 9/04
(72) HAMPARYAN, Burag	(73) Dana Limited	F16F 9/34
TEMIZ, Vedat	(72) VYNCKE, Thomas, J.	F16F 1/373
ALPAYA, Mert	DE MARE, Arnout, R.L.	F16F 13/00
ÇAKIL, Semih	VERSTHEYHE, Mark, R.J.	F16F 15/02
KAYABASI, Iskender	(31) 201361875181 P	F16F 15/023
DOGRU, Ridvan	(32) 09.09.2013	F16F 15/08
(31) 201716000	(33) United States of America	(11) EP3534033
(32) 18.10.2017	(51) F16D 55/2265	(21) EP18870735.0
(33) Turkey	F16D 65/00	(47) 09.02.2022
(51) F16C 33/12	(11) EP3617542	(87) CN2018098203
F16C 33/24	(21) EP19204415.4	02.05.2019
F16C 33/10	(47) 09.02.2022	(22) 02.08.2018
(11) EP3734097	(22) 06.06.2016	(54) PRE-COMPRESSED EMERGENCY AIR
(21) EP17936433.6	(54) ROTATIONAL FIXING FOR A GUIDE	SPRING ASSEMBLY
(47) 09.02.2022	PIN OF A DISC BRAKE	(73) Zhuzhou Times New Material Technology
(87) JP2017047266	(73) Meritor Heavy Vehicle Braking Systems	Co., Ltd.
04.07.2019	(UK) Limited	(72) CHEN, Qinghua
(22) 28.12.2017	(72) KNOOP, Dietmar	NONG, Duomin
(54) LOW-FRICTION SLIDING MECHANISM	(31) 15170690	CHEN, Canhui
(73) Nissan Motor Co., Ltd.	(32) 04.06.2015	DUAN, Guoqi
(72) TOSAKA, Hiroshi	(33) European Patent Office (EPO)	CHENG, Haitao
HIGUCHI, Tsuyoshi	(51) F16D 65/097	CHEN, Qiang
NAKANO, Seiichi	F16D 55/228	LONG, Yaokun
YAMASHITA, Takemichi	(11) EP3680504	ZHOU, Jun
MABUCHI, Yutaka	(21) EP18854384.7	YE, Te
(51) F16C 33/66	(47) 09.02.2022	(31) 201711020033
F04D 19/04	(87) JP2018027829	(32) 27.10.2017
F16C 33/76	14.03.2019	(33) China
F16C 19/06	(22) 25.07.2018	(51) F16F 15/00
(11) EP3628883	(54) VEHICULAR DISC BRAKE	B60W 30/20
(21) EP19214565.4	(73) Hitachi Astemo, Ltd.	G05B 17/02
(47) 09.02.2022	(72) SASAKI, Yuki	G05B 13/04
(22) 09.12.2019	TEZUKA, Toshihiro	(11) EP3492772
(54) VACUUM PUMP	(31) 2017172058	(21) EP17020551.2
(73) PFEIFFER VACUUM GMBH	(32) 07.09.2017	(47) 09.02.2022
(72) Mekota, Mirko	(33) Japan	(22) 29.11.2017
Schweighöfer, Michael	(51) F16D 65/12	(54) METHOD FOR VIBRATION
(51) F16C 35/067	B60B 27/00	ATTENUATION IN AN AUTOMOTIVE
B23B 19/02	(11) EP3864316	DRIVETRAIN, CORRESPONDING
F16C 35/063	(21) EP19817611.7	DATA PROCESSING APPARATUS,
F16C 37/00	(47) 09.02.2022	COMPUTER PROGRAM, AND DATA
B23Q 1/70	(87) EP2019083225	CARRIER SIGNAL
B23Q 11/12	11.06.2020	(73) Dr. Ing. h.c. F. Porsche AG
F16C 19/52	(22) 02.12.2019	(72) Kasparkova, Tereza, E.
F16C 35/04	(54) BRAKE DISK ARRANGEMENT	Hrazdira, Adam
F16C 35/12	(73) SAF-HOLLAND GmbH	Hanis, Thomas
(11) EP3604843	(72) HARTMANN, Mark	(51) F16F 15/12
(21) EP17904011.8	(31) 202019102518 U	F16F 15/14
(47) 09.02.2022	102018131016	(11) EP3768988
(87) JP2017013401	(32) 06.05.2019	(21) EP18833156.5
	05.12.2018	(47) 09.02.2022

(87) DE2018101024 26.09.2019	(31) 1853163	(54) MECHANICAL SEAL
(22) 17.12.2018	(32) 11.04.2018	(73) Eagle Industry Co., Ltd.
(54) VIBRATION ABSORBER DEVICE AND TORQUE TRANSMISSION DEVICE	(33) France	(72) CHIBA Keiichi
(73) Schaeffler Technologies GmbH & Co. KG	(51) F16H 61/4192	ITADANI Masatoshi
(72) DINGER, Christian	(11) EP3788279	KATORI Hikaru
(31) 102018106274	(21) EP19721210.3	(31) 2014180336
(32) 19.03.2018	(47) 09.02.2022	(32) 04.09.2014
(33) Germany	(87) EP2019059694	(33) Japan
(51) F16G 5/06	07.11.2019	(51) F16K 11/07
D04B 21/00	(22) 15.04.2019	F15B 13/044
D04B 21/18	(54) ELECTRONIC MONITORING SYSTEM FOR HYDROSTATIC TRAVEL	F16K 37/00
D04B 21/20	DRIVES AND TRAVEL DRIVE WITH	F15B 19/00
F16G 5/00	ELECTRONIC MONITORING SYSTEM	F15B 20/00
F16G 5/20	(73) Robert Bosch GmbH	F15B 13/00
F16G 1/10	(72) MUELLER, Matthias	F15B 13/04
F16G 5/08	FEIG, Juergen	(11) EP3591270
(11) EP3076044	HENSE, Heinz	(21) EP19184279.8
(21) EP14865281.1	MUMCU, Peer	(47) 09.02.2022
(47) 09.02.2022	HERRMANN, Ronny	(22) 03.07.2019
(87) JP2014081260	ARENAS, Veronica	(54) SYSTEM AND METHOD FOR DETECTING POSITION OF A VALVE
04.06.2015	(31) 102018206908	DRIVEN BY A SOLENOID LINEAR
(22) 26.11.2014	(32) 04.05.2018	ACTUATOR
(54) POWER-TRANSMITTING FRICTION BELT AND METHOD FOR	(33) Germany	(73) Danfoss Power Solutions II Technology A/S
MANUFACTURING SAME	(51) F16H 63/34	(72) JAGODA, Aaron Hertzell
(73) Mitsuboshi Belting Ltd.	(11) EP3273112	(31) 201916460554
(72) KOJIMA Kazuyo	(21) EP16382357.8	201862694763 P
MITSUTOMI Manabu	(47) 09.02.2022	(32) 02.07.2019
TAKEHARA Tsuyoshi	(22) 22.07.2016	06.07.2018
(31) 2014235672	(54) RELEASE DEVICE FOR	(33) United States of America
2013247879	RELEASING A MOTOR VEHICLE	United States of America
(32) 20.11.2014	TRANSMISSION AND MOTOR	(51) F16L 1/24
29.11.2013	VEHICLE TRANSMISSION HAVING	(11) EP3341637
(33) Japan	SAID RELEASE DEVICE	(21) EP16753450.2
Japan	(73) Fico Triad, S.A.	(47) 09.02.2022
(51) F16G 13/16	(72) CASADO ALCARAZ, Daniel	(87) GB2016052529
(11) EP3559505	FERRÉ RIPOLL, Jaume	09.03.2017
(21) EP17832240.0	BRAVO DOMÍNGUEZ, Raúl	(22) 16.08.2016
(47) 09.02.2022	GIMENO GRANÉ, Santiago	(54) CLAMP ASSEMBLY
(87) EP2017084570	(51) F16H 63/48	(73) Advanced Innergy Ltd
28.06.2018	B60W 50/14	(72) MORLEY, Stewart Ian
(22) 22.12.2017	F16H 57/01	HARROP, Martin Steven
(54) SYSTEMS FOR MONITORING THE OPERATING OF A CABLE DRAG	F16H 61/12	LEWIS, Radcliffe
CHAIN	(11) EP3735545	(31) 201515320
(73) Icus GmbH	(21) EP18827106.8	(32) 28.08.2015
(72) JAEKER, Thilo-Alexander	(47) 09.02.2022	(33) United Kingdom
HABERING, Richard	(87) EP2018086506	(51) F16L 3/01
SCHMER, Konstantin	11.07.2019	B65H 75/00
HERMEY, Andreas	(22) 21.12.2018	F16L 11/12
BARTEN, Dominik	(54) METHOD FOR CONTROLLING A MOTOR VEHICLE HAVING A PARK	F16L 53/35
(31) 202016107317 U	LOCK	F16L 53/38
(32) 23.12.2016	(73) VOLKSWAGEN	B65H 75/44
(33) Germany	AKTIENGESELLSCHAFT	B65H 75/14
(51) F16H 57/04	(72) SAMSON, Stefan	(11) EP3594545
(11) EP3775624	MOELLER, Peter	(21) EP19174208.9
(21) EP19715958.5	ERNST, Stefan	(47) 09.02.2022
(47) 09.02.2022	WARNECKE, Raimar	(22) 13.05.2019
(87) EP2019059315	(31) 102018200092	(54) HOSE DRUM ASSEMBLY
17.10.2019	(32) 04.01.2018	(73) Stemmann-Technik GmbH
(22) 11.04.2019	(33) Germany	(72) Bünker, Ludger
(54) ACTUATOR COMPRISING A BUILT-IN LUBRICATING SYSTEM	(51) F16J 15/34	(31) 102018117048
(73) Safran Data Systems	(11) EP3190317	(32) 13.07.2018
(72) HOUDARD, Hervé	(21) EP15837410.8	(33) Germany
MÉGARD, Thomas	(47) 09.02.2022	(51) F16L 5/02
(31) 102018106274	(87) JP2015075098	F16L 5/04
(32) 19.03.2018	10.03.2016	F16L 5/06
(33) Germany	(22) 03.09.2015	F16L 5/10

H02G 3/22	(54) METHODS, DEVICES, AND SYSTEMS	(54) AN UNBONDED FLEXIBLE PIPE
(11) EP3601860	FOR COUPLING FLUID LINES	(73) National Oilwell Varco Denmark I/S
(21) EP18711585.2	(73) NxStage Medical Inc.	(72) GLEJBØL, Kristian
(47) 09.02.2022	(72) BRUGGER, James, M.	STRAARUP, Anders
(87) EP2018057447	UTTERBERG, David, S.	(31) 201570515
27.09.2018	TREU, Dennis, M.	(32) 10.08.2015
(22) 23.03.2018	(31) 201161494504 P	(33) Denmark
(54) GLAND FOR A SEALED	(32) 08.06.2011	(51) F16M 11/10
FEEDTHROUGH OF AN ORIFICE OF A	(33) United States of America	F16M 11/40
PARTITION	(51) F16L 37/084	F16M 13/00
(73) Naval Energies	(11) EP3726115	G06F 1/16
(72) PEROU, Jean-Yves	(21) EP20163590.1	H04M 1/00
PRISER, Mathieu	(47) 09.02.2022	(11) EP3739254
(31) 1700310	(22) 17.03.2020	(21) EP20183162.5
(32) 24.03.2017	(54) A QUICK COUPLING FOR PIPES AND	(47) 09.02.2022
(33) France	THE LIKE	(22) 17.08.2017
(51) F16L 11/08	(73) C.Matic S.p.A.	(54) EXPANDABLE SOCKETS FOR USE
E21B 17/01	(72) CONFALONIERI, Orazio	WITH PORTABLE MEDIA PLAYERS
B32B 1/08	(31) 201900004657	(73) PopSockets LLC
B32B 27/34	(32) 28.03.2019	(72) Hobbs, Molly
B32B 27/32	(33) Italy	Barnett, David B.
B32B 27/30	(51) F16L 37/098	(31) 201715615900
B32B 27/28	A61M 39/10	201662376237 P
B32B 27/12	F16L 37/00	(32) 07.06.2017
B32B 27/08	F16L 37/04	17.08.2016
B32B 5/26	F16L 37/084	(33) United States of America
(11) EP3542089	F16L 37/133	United States of America
(21) EP17809219.3	(11) EP3469246	(51) F16M 11/10
(47) 09.02.2022	(21) EP17813822.8	F16M 11/42
(87) EP2017079681	(47) 09.02.2022	(11) EP3760909
24.05.2018	(87) US2017036590	(21) EP20192657.3
(22) 17.11.2017	21.12.2017	(47) 09.02.2022
(54) FLEXIBLE FLUID TRANSPORT PIPE,	(22) 08.06.2017	(22) 29.08.2018
AND ASSOCIATED FACILITY AND	(54) FLUIDIC CONNECTOR ASSEMBLY	(54) DISPLAY APPARATUS
METHOD	FOR QUICK CONNECT/ DISCONNECT	(73) Samsung Electronics Co., Ltd.
(73) TECHNIP N-POWER	(73) Idex Health & Science LLC	(72) JUNG, Hyun Jun
(72) DO, Anh-Tuan	(72) NIENHUIS, Nathaniel	HAN, Jong Hee
ESTRIER, Pascal	ELLIS, Scott	IN, Woo Sung
PERREAU-SAUSSINE, Dominique	BEEMER, Eric	CHOI, Dae Su
(31) 1661239	GRAHAM, Craig	PARK, Chul Soon
(32) 18.11.2016	SANDERS, Troy	(31) 20170111498
(33) France	(31) 201662349569 P	(32) 31.08.2017
(51) F16L 13/02	(32) 13.06.2016	(33) Korea (Republic)
C10G 9/20	(33) United States of America	(51) F17C 3/02
F16L 13/04	(51) F16L 41/14	F17C 3/04
F16L 15/00	F16L 41/00	B65D 90/06
(11) EP3559532	E03F 3/04	B63B 35/28
(21) EP17816855.5	(11) EP3680537	B63B 25/16
(47) 09.02.2022	(21) EP19219912.3	(11) EP3111131
(87) EP2017083409	(47) 09.02.2022	(21) EP15708052.4
28.06.2018	(22) 27.12.2019	(47) 09.02.2022
(22) 18.12.2017	(54) CONNECTION DEVICE WITH BENDING	(87) IB2015051472
(54) TUBE ARRANGEMENT AND FURNACE	JOINT	03.09.2015
(73) AB Sandvik Materials Technology	(73) Funke Kunststoffe GmbH	(22) 27.02.2015
(72) HARELAND, Mathias	(72) Funke, Norbert	(54) MARINE VESSEL CRYOGENIC
NORDIN, Peter	Funke, Hans Guenter	BARRIER AND INSULATION
BLOMFELDT, Thomas	(31) 202019100076 U	APPARATUS AND METHOD
(31) 16205354	(32) 09.01.2019	(73) LNT MARINE PTE. LTD.
(32) 20.12.2016	(33) Germany	(72) NIKOLAISEN, Per Ivar
(33) European Patent Office (EPO)	(51) F16L 53/37	(31) 201403543
(51) F16L 35/00	F16L 11/08	(32) 28.02.2014
F16L 39/02	F16L 59/153	(33) United Kingdom
F16L 41/02	(11) EP3334969	(51) F17C 13/04
A61M 39/10	(21) EP16834696.3	F16K 1/30
(11) EP3421857	(47) 09.02.2022	(11) EP3295062
(21) EP18181925.1	(87) DK2016050264	(21) EP16727763.1
(47) 09.02.2022	16.02.2017	(47) 09.02.2022
(22) 08.06.2012	(22) 08.08.2016	(87) FR2016051127

17.11.2016	(87) EP2019058154	(54) ADJUSTABLE OPTIC AND LIGHTING
(22) 12.05.2016	10.10.2019	DEVICE ASSEMBLY WITH ELASTIC
(54) GAS CYLINDER VALVE	(22) 01.04.2019	MEMBER
(73) Senior Aerospace Ermeto SAS	(54) ACOUSTICALLY ABSORBENT	(73) Troy-CSL Lighting Inc.
(72) BAR, Dimitri	LIGHTING MODULE	(72) Portinga, Joshua
ROCHEREAU, Didier	(73) Signify Holding B.V.	Nguyen, Vincent
(31) 1554221	(72) VAN DELDEN, Martinus, Hermanus,	(31) 201816226526
(32) 12.05.2015	Wilhelmus, Maria	(32) 19.12.2018
(33) France	(31) 18166000	(33) United States of America
(51) F21K 9/20	(32) 06.04.2018	(51) F21V 21/14
F21S 43/235	(33) European Patent Office (EPO)	E04H 12/18
F21S 41/30	(51) F21S 45/10	F21V 21/26
F21V 8/00	F21S 41/50	(11) EP3710747
G02B 5/02	F21S 41/25	(21) EP18816359.6
B60Q 1/26	(11) EP2672170	(47) 09.02.2022
F21Y 113/13	(21) EP13167299.0	(87) US2018061323
F21Y 115/10	(47) 09.02.2022	23.05.2019
F21Y 105/10	(22) 10.05.2013	(22) 15.11.2018
F21S 41/24	(54) Illumination device of a motor vehicle	(54) FOLDABLE LIGHT TOWER
F21K 9/61	(73) Automotive Lighting Reutlingen GmbH	(73) THE WILL-BURT COMPANY
(11) EP3608582	(72) Schmid, Jan	(72) BLACKWELDER, Paul, Brasford
(21) EP18832391.9	Hertneck, Stefan	WASSON, Andrew, Paul
(47) 09.02.2022	(31) 202012005548 U	(31) 201762586941 P
(87) KR2018007397	(32) 08.06.2012	(32) 16.11.2017
17.01.2019	(33) Germany	(33) United States of America
(22) 29.06.2018	(51) F21V 7/04	(51) F21V 21/35
(54) MULTI-SIDED LUMINOUS LIGHTING	F21K 9/23	F21V 23/00
MEMBER AND THREE-DIMENSIONAL	F21K 9/233	H01R 25/14
LIGHTING DEVICE USING SAME	F21K 9/68	(11) EP3567312
(73) Exaoptonix Inc.	F21K 9/69	(21) EP17889739.3
Utronix Inc.	F21V 5/00	(47) 09.02.2022
(72) JO, Ho Jun	F21V 5/04	(87) JP2017047313
CHOI, Woo Seok	F21V 7/00	12.07.2018
YANG, Keun Young	F21V 13/04	(22) 28.12.2017
(31) 20170088351	G02B 19/00	(54) POWER SUPPLY BOX DEVICE
(32) 12.07.2017	F21Y 115/10	(73) Modulex Inc.
(33) Korea (Republic)	(11) EP3564580	(72) TERUMICHI Goro
(51) F21K 9/232	(21) EP18754211.3	(31) 2017000713
F21K 9/60	(47) 09.02.2022	(32) 05.01.2017
F21V 3/02	(87) CN2018076293	(33) Japan
F21V 5/02	23.08.2018	(51) F21V 29/75
F21V 7/00	(22) 11.02.2018	F21V 15/01
F21W 121/00	(54) REFLECTION APPARATUS, LIGHT	F21V 5/00
F21Y 115/10	SOURCE MODULE AND ILLUMINATION	F21W 131/103
G02B 19/00	APPARATUS	F21Y 115/10
(11) EP3090300	(73) Oppl Lighting Co., Ltd.	F21Y 105/16
(21) EP14837070.3	(72) FENG, Xuejun	(11) EP3671035
(47) 09.02.2022	LIU, Chaobo	(21) EP19218415.8
(87) EP2014079325	WANG, Hongbo	(47) 09.02.2022
09.07.2015	(31) 201720663784 U	(22) 20.12.2019
(22) 24.12.2014	201710429252	(54) LIGHT WITH COOLING FINS IN THE
(54) LIGHTING DEVICE AND LUMINAIRE	201720135936 U	LIGHT HOUSING
(73) Signify Holding B.V.	201710081165	(73) TRILUX GmbH & Co. KG
(72) Li, Yun	(32) 08.06.2017	(72) Keßler, Björn
SHEN, Mo	08.06.2017	Knoche, Ulrich
(31) PCT/CN2014/070064	15.02.2017	(31) 102018133500
14163375	15.02.2017	(32) 21.12.2018
(32) 03.01.2014	(33) China	(33) Germany
03.04.2014	China	(51) F21V 33/00
(33) World Intellectual Property Office (WIPO)	China	F21L 4/08
European Patent Office (EPO)	China	F21S 6/00
(51) F21S 8/00	(51) F21V 14/06	F21V 14/02
F21V 1/00	F21S 8/02	F21V 29/89
F21Y 115/10	F21Y 115/10	(11) EP3280954
F21Y 105/10	(11) EP3671027	(21) EP16708643.8
(11) EP3775672	(21) EP19217434.0	(47) 09.02.2022
(21) EP19713078.4	(47) 09.02.2022	(87) EP2016054686
(47) 09.02.2022	(22) 18.12.2019	13.10.2016

(22) 04.03.2016	F25B 43/00	F28F 9/00
(54) FLOOR LAMP	F24F 1/00	B01D 1/30
(73) "Durable" Hunke & Jochheim GmbH & Co. Kommanditgesellschaft	F24F 1/06	F28D 21/00
(72) MAIER-HUNKE, Horst-Werner	F24F 1/28	(11) EP3724560
(31) 102015105479	F25B 13/00	(21) EP17872889.5
(32) 10.04.2015	F25B 41/00	(47) 09.02.2022
(33) Germany	F24F 11/89	(87) IB2017001783
(51) F23D 11/00	(11) EP3339765	20.06.2019
(11) EP3734153	(21) EP16857745.0	(22) 11.12.2017
(21) EP20163297.3	(47) 09.02.2022	(54) BAFFLE, EVAPORATOR
(47) 09.02.2022	(87) KR2016011690	COMPRISING SUCH A BAFFLE
(22) 16.03.2020	27.04.2017	AND REFRIGERATION CIRCUIT
(54) VEHICLE HEATING DEVICE	(22) 18.10.2016	COMPRISING SUCH AN EVAPORATOR
(73) Eberspächer Climate Control Systems GmbH	(54) AIR-CONDITIONING SYSTEM	(73) Carrier Corporation
(72) Jensen, Hans	(73) Samsung Electronics Co., Ltd.	(72) FONTE, Nicolas
Collmer, Andreas	(72) CHO, Il Yong	ENEZIANI, Arnaud
(31) 102019110949	KANG, Tae Woo	LENOBLE, Yohann
(32) 29.04.2019	MO, Jin Yong	FERVEL, Pierre-Alain
(33) Germany	SEO, Hyeong Joon	
(51) F24C 15/32	PARK, Hyeon U	(51) F25B 45/00
(11) EP3599429	KIM, Tae Il	F25B 43/02
(21) EP19188545.8	KIM, Mun Sub	F25B 13/00
(47) 09.02.2022	KIM, Sung Goo	F25B 31/00
(22) 26.07.2019	KANG, Hyun Wuk	(11) EP3222938
(54) COOKING APPLIANCE	KIM, Kyung Hoon	(21) EP15860816.6
(73) LG ELECTRONICS INC.	CHAE, Wang Byung	(47) 09.02.2022
(72) LEE, Dae Yong	(31) 20150147978	(87) JP2015082459
KANG, Chung	(32) 23.10.2015	26.05.2016
MUN, Hyeoung	(33) Korea (Republic)	(22) 18.11.2015
(31) 20180087444	(51) F25B 21/00	(54) HEAT PUMP
(32) 26.07.2018	(11) EP3511652	(73) Yanmar Power Technology Co., Ltd.
(33) Korea (Republic)	(21) EP19155560.6	(72) OKADA, Hideshi
(51) F24F 12/00	(47) 09.02.2022	YOSHIMURA, Tomoya
F24F 13/20	(22) 04.12.2017	OKUDA, Norihiro
(11) EP3671059	(54) ELECTROCALORIC SYSTEM	(31) 2014237145
(21) EP19216543.9	(73) Palo Alto Research Center, Incorporated	(32) 21.11.2014
(47) 09.02.2022	(72) WANG, Yunda	(33) Japan
(22) 16.12.2019	SCHWARTZ, David E.	(51) F25B 49/02
(54) DEVICE FOR CLIMATE TREATMENT AND AIR RENEWAL FOR A ROOM LOCATED IN A BUILDING	(31) 201615375713	F25B 25/00
(73) MULLER ET CIE	(32) 12.12.2016	(11) EP3086047
(72) FEVRIER, Bruno	(33) United States of America	(21) EP13899790.3
MARRACHE, Henri	(51) F25B 39/02	(47) 09.02.2022
(31) 1873187	F28D 1/053	(87) JP2013084031
(32) 18.12.2018	F28D 1/047	25.06.2015
(33) France	F28F 9/02	(22) 19.12.2013
(51) F24F 13/22	F25B 13/00	(54) AIR CONDITIONER AND METHOD FOR CONTROLLING AIR CONDITIONER
F25B 49/02	F28D 1/04	(73) Mitsubishi Electric Corporation
F24F 11/00	F28F 1/32	(72) MOTOMURA, Yuji
(11) EP3734181	F28D 21/00	KOGE, Hirofumi
(21) EP20179906.1	F28F 1/02	WAKAMOTO, Shinichi
(47) 09.02.2022	(11) EP3276282	MORIMOTO, Osamu
(22) 29.03.2013	(21) EP16786084.0	TAKENAKA, Naofumi
(54) ENCLOSURE COOLING USING EARLY COMPRESSOR TURN-OFF WITH EXTENDED FAN OPERATION	(47) 09.02.2022	(51) F25C 1/08
(73) Google LLC	(87) JP2016001120	F25C 5/20
(72) SLOO, David	03.11.2016	F25B 21/04
MATSUOKA, Yoky	(22) 02.03.2016	(11) EP3775724
STEFANSKI, Mark D.	(54) HEAT EXCHANGER AND AIR CONDITIONER	(21) EP19715038.6
(31) 201213434573	(73) Daikin Industries, Ltd.	(47) 09.02.2022
(32) 29.03.2012	(72) YOSHIOKA, Shun	(87) EP2019057821
(33) United States of America	ORITANI, Yoshio	10.10.2019
(51) F25B 1/00	JINDOU, Masanori	(22) 28.03.2019
	(31) 2015089966	(54) A COOLER APPLIANCE
	(32) 27.04.2015	(73) Arçelik Anonim Sirketi
	(33) Japan	(72) AYNUR, Tolga Nurettin
	(51) F25B 39/02	AKKURT, Muhsin Can
	F28D 7/16	PATKAVAK, Mert
	F28F 9/22	OZDEMIR, Ahmet Refik
		TASKIN, Mert Can

(31) 201804590	22.12.2016	(54) TRANSPORT REFRIGERATION SYSTEM WITH A BATTERY SYSTEM AND CORRESPONDING METHOD
(32) 02.04.2018	(22) 15.06.2016	(73) Carrier Corporation
(33) Turkey	(54) TRANSPORT REFRIGERATION UNIT AND METHOD OF OPERATING THE SAME	(72) CHOPKO, Robert A. POOLMAN, Ciara
(51) F25D 17/06	(73) Carrier Corporation	(31) 201662351722 P
A23L 3/3418	(72) FERGUSON, Benjamin Edward	(32) 17.06.2016
A23B 7/148	(31) 201562181980 P	(33) United States of America
(11) EP3336462	(32) 19.06.2015	(51) F26B 13/10
(21) EP16841093.4	(33) United States of America	F26B 21/00
(47) 09.02.2022	(51) F25D 23/02	(11) EP3734207
(87) JP2016003862	(11) EP3649414	(21) EP20159101.3
09.03.2017	(21) EP18735292.7	(47) 09.02.2022
(22) 24.08.2016	(47) 09.02.2022	(22) 24.02.2020
(54) CONTAINER REFRIGERATION APPARATUS	(87) EP2018067554	(54) WEB DRYING APPARATUS
(73) Daikin Industries, Ltd.	10.01.2019	(73) SCREEN Holdings Co., Ltd.
(72) KAMEI, Noritaka	(22) 29.06.2018	(72) UEMURA, Ryota
IKEMIYA, Makoto	(54) A REFRIGERATOR COMPRISING FRENCH-STYLE DOORS	HIRAI, Keisuke
FUJIMOTO, Yuusuke	(73) Arçelik Anonim Sirketi	TAKEICHI, Yoshikuni
(31) 2015168724	(72) YENIGUN, Çağrı	HIRAMATSU, Kenta
(32) 28.08.2015	KONUİKSEVEN, Erhan İlhan	MATSUDA, Takeshi
(33) Japan	KAYA, Metin	(31) 2019054120
(51) F25D 19/02	CICEK, Mehmet Bugra	(32) 22.03.2019
(11) EP3446055	GULTEKIN, Ozgun Atac	(33) Japan
(21) EP17721214.9	(31) 201709828	(51) F27B 14/06
(47) 09.02.2022	(32) 04.07.2017	F27B 14/08
(87) IB2017052293	(33) Turkey	F27D 9/00
26.10.2017	(51) F25D 23/10	F27B 14/10
(22) 21.04.2017	F25D 23/12	(11) EP3737901
(54) REFRIGERATOR	(11) EP3696484	(21) EP19700015.1
(73) Dometic Sweden AB	(21) EP18866372.8	(47) 09.02.2022
(72) YANG, Xingbiao	(47) 09.02.2022	(87) EP2019050046
WU, Huaqiang	(87) CN2018109975	18.07.2019
LI, Dahua	18.04.2019	(22) 02.01.2019
ZHU, Zhengchao	(22) 12.10.2018	(54) COLD CRUCIBLE AND ASSOCIATED COOLING MANIFOLD FOR AN INDUCTION HEATING DEVICE
ZOU, Bin	(54) REFRIGERATOR	(73) Centre National de la Recherche Scientifique
(31) 201620350499 U	(73) Qingdao Haier Joint Stock Co., Ltd	(72) HAETTEL, Richard
201620349274 U	(72) SUN, Weishou	(31) 1850147
(32) 22.04.2016	ZHANG, Yanqing	(32) 09.01.2018
22.04.2016	CUI, Chuan	(33) France
(33) China	XUE, Jianjun	(51) F28D 1/02
China	ZUO, Lihua	F28D 1/04
(51) F25D 21/06	(31) 201710952409	F28F 27/00
F25D 17/06	(32) 13.10.2017	F25B 25/00
F25D 21/02	(33) China	F25B 41/00
(11) EP2938943	(51) F25D 29/00	F25D 17/02
(21) EP12813056.4	(11) EP3789713	H05K 7/20
(47) 09.02.2022	(21) EP20192402.4	(11) EP3791123
(87) EP2012077099	(47) 09.02.2022	(21) EP20739296.0
03.07.2014	(22) 24.08.2020	(47) 09.02.2022
(22) 28.12.2012	(54) REFRIGERATOR AND CONTROL METHOD THEREOF	(87) EP2020068669
(54) COOLING DEVICE WITH COMBINED HEATER FOR DEW AND FROST PREVENTION	(73) LG Electronics Inc.	21.01.2021
(73) Arçelik Anonim Sirketi	(72) Yeom, Tae jin	(22) 02.07.2020
(72) OZSACMACI, Yigit	(31) 20190108967	(54) COOLING SYSTEM AND METHOD FOR THE TEMPERATURE CONTROL OF A COMPUTING CENTER BY MEANS OF A COOLING SYSTEM
OZSEKER, Gokhan	(32) 03.09.2019	(73) Cabero Beteteiligungs-GmbH
ERCAN, Turgay	(33) Korea (Republic)	(72) UGI, Martin
AKSIN, Yasin	(51) F25D 29/00	(31) 102019119358
(51) F25D 21/12	B60H 1/00	(32) 17.07.2019
F02B 29/04	B60H 1/32	(33) Germany
B60H 1/00	(11) EP3472542	(51) F28D 1/04
B60H 1/32	(21) EP17733702.9	F28D 7/08
B60H 1/14	(47) 09.02.2022	
F02M 31/20	(87) US2017037902	
(11) EP3311085	21.12.2017	
(21) EP16731765.0	(22) 16.06.2017	
(47) 09.02.2022		
(87) US2016037491		

F28D 7/16	(21) EP20191940.4	(22) 30.04.2015
F28F 1/00	(47) 09.02.2022	(54) BIODEGRADABLE CARTRIDGE FOR SHOTGUNS
H01F 27/10	(22) 15.02.2018	(73) BIO AMMO, S.L.
F28D 15/00	(54) THERMAL RECTIFIER AND THERMAL RECTIFICATION UNIT	(72) LÓPEZ-POZAS LANUZA, Luis Enrique
(11) EP2841863	(73) Panasonic Intellectual Property Management Co., Ltd.	(51) G01B 5/008
(21) EP13782020.5	(72) ABE, Hiroyuki	G01B 21/04
(47) 09.02.2022	(31) 2017026473	(11) EP3260812
(87) US2013038177	(32) 15.02.2017	(21) EP17176098.6
31.10.2013	(33) Japan	(47) 09.02.2022
(22) 25.04.2013	(51) F41A 9/79	(22) 14.06.2017
(54) DOUBLE-WALLED DRY HEAT EXCHANGER COIL WITH SINGLE-WALLED RETURN BENDS	(11) EP3724592	(54) METHOD FOR OPERATING A COORDINATE MEASURING MACHINE
(73) Evapco, Inc.	(21) EP18825566.5	(73) Mitutoyo Corporation
(72) BYRNE, Tom	(47) 09.02.2022	(72) PATZWALD, Andrew
(31) 201261638275 P	(87) EP2018082462	HEMMINGS, Scott Ellis
(32) 25.04.2012	20.06.2019	(31) 201615192799
(33) United States of America	(22) 25.11.2018	(32) 24.06.2016
(51) F28D 15/00	(54) AMMUNITION BOX AND AMMUNITION MAGAZINE INTENDED TO RECIEVE SUCH A BOX	(33) United States of America
G02B 27/01	(73) NEXTER Systems	(51) G01B 11/00
H05K 7/20	(72) CARRE, Maxime	G01B 11/02
F28F 3/02	CONTE, Alexis	G01B 11/24
F28F 21/00	RAYMOND, Rémi	G06T 7/13
(11) EP3247961	BAERT, Steve	B21B 37/68
(21) EP16704086.4	(31) 1701301	(11) EP3581880
(47) 09.02.2022	(32) 13.12.2017	(21) EP18767716.6
(87) US2016013308	(33) France	(47) 09.02.2022
28.07.2016	(51) F41G 3/06	(87) JP2018009252
(22) 14.01.2016	(11) EP2691728	20.09.2018
(54) HEAT DISSIPATION STRUCTURE FOR AN ELECTRONIC DEVICE	(21) EP12716623.9	(22) 09.03.2018
(73) Microsoft Technology Licensing, LLC	(47) 09.02.2022	(54) METHOD AND APPARATUS FOR MEASURING MEANDERING AMOUNT OF STRIP, AND METHOD AND APPARATUS FOR DETECTING ABNORMAL MEANDERING OF STRIP
(72) NIKKHO, Michael	(87) IB2012051389	(73) JFE Steel Corporation
HEIRICH, Doug	04.10.2012	(72) SAKAI Jun
BEERMAN, Michael	(22) 22.03.2012	NAKASHIMA Toru
RICCOMINI, Roy	(54) FIREARM, AIMING SYSTEM THEREFOR, METHOD OF OPERATING THE FIREARM AND METHOD OF REDUCING THE PROBABILITY OF MISSING A TARGET	(31) 2017048550
YE, Maosheng	(73) Smart Shooter Ltd.	(32) 14.03.2017
HODGE, Andrew	(72) EHRlich, Avshalom	(33) Japan
(31) 201514705897	(31) 21196611	(51) G01B 11/00
201562105684 P	(32) 28.03.2011	G01B 11/14
(32) 06.05.2015	(33) Israel	G01B 5/00
20.01.2015	(51) F42B 3/12	G01B 5/008
(33) United States of America	F42B 3/198	G01B 7/16
United States of America	(11) EP3390957	G01D 3/036
(51) F28F 7/02	(21) EP16809788.9	G01B 7/00
B60H 1/00	(47) 09.02.2022	G01B 7/012
B60H 1/32	(87) EP2016080342	(11) EP3394561
F25B 40/00	22.06.2017	(21) EP16880027.4
F28D 21/00	(22) 08.12.2016	(47) 09.02.2022
(11) EP3737903	(54) PYROTECHNICAL IGNITER	(87) US2016068029
(21) EP19801113.2	(73) Autoliv Development AB	29.06.2017
(47) 09.02.2022	(72) CHEVALIER, Hervé	(22) 21.12.2016
(87) IB2019059365	COURTAUX, Valérian	(54) SENSOR SIGNAL OFFSET COMPENSATION SYSTEM FOR A CMM TOUCH PROBE
07.05.2020	(31) 1562369	(73) Mitutoyo Corporation
(22) 31.10.2019	(32) 15.12.2015	(72) JANSSON, Bjorn E.B.
(54) INTERNAL HEAT EXCHANGER	(33) France	(31) 201562271082 P
(73) Sumitomo Riko Company Limited	(51) F42B 7/06	(32) 22.12.2015
(72) SANGIOVANNI, Matteo	F42B 7/08	(33) United States of America
(31) 201800010006	(11) EP3290858	(51) G01B 11/00
(32) 02.11.2018	(21) EP15890664.4	G01B 11/16
(33) Italy	(47) 09.02.2022	G01B 11/24
(51) F28F 99/00	(87) ES2015070356	G01B 5/207
E04B 1/76	03.11.2016	A43D 1/06
E04B 1/80		
F28D 20/00		
F28F 13/00		
F28F 27/00		
(11) EP3760963		

A43D 1/08	(32) 28.06.2018	(73) TOPCON CORPORATION
A41D 27/00	28.04.2018	(72) OHTOMO, Fumio
(11) EP3584532	(33) China	YOSHINO, Ken-ichiro
(21) EP17896572.9	China	(31) 2017020074
(47) 09.02.2022	(51) G01B 11/27	(32) 07.02.2017
(87) RU2017000351	G01C 15/00	(33) Japan
23.08.2018	(11) EP3236201	(51) G01C 21/00
(22) 25.05.2017	(21) EP17166160.6	G01F 1/684
(54) METHOD AND DEVICE FOR	(47) 09.02.2022	G01F 1/696
MEASURING THE SHAPE, SIZE, AND	(22) 12.04.2017	G01F 1/69
ELASTIC CHARACTERISTICS AS	(54) ROTATING LASER FOR DETERMINING	G01F 1/692
WELL AS FOR BUILDING A THREE-	THE PERPENDICULARITY OF TWO	G01P 5/12
DIMENSIONAL MODEL OF THE INNER	MACHINE PARTS	G01F 1/698
SURFACE OF A HOLLOW OBJECT	(73) Status Pro Maschinenmesstechnik	(11) EP3627103
(73) Limited Liability Company "Fitin"	GmbH	(21) EP19198100.0
(72) GRISHKO, Natalja Demjanovna	(72) Foley, David	(47) 09.02.2022
KANIN, Dmitry Mihajlovich	Knode, Burkhard	(22) 18.09.2019
REVKOV, Egor Andreevich	(31) 102016107099	(54) MEASURING DEVICE COMPRISING A
POSMETEV, Viktor Valerevich	(32) 18.04.2016	SUSPENDED SEMICONDUCTOR WIRE
BUHTOJAROV, Leonid Dmitrievich	(33) Germany	(73) SAFRAN
CHUYKO, Grigory Vladimirovich	(51) G01B 17/02	COMMISSARIAT À L'ÉNERGIE
REVKOV, Andrey Anatolevich	B64C 39/02	ATOMIQUE ET AUX ÉNERGIES
SHEDRIN, Ivan Sergeevich	B64D 47/08	ALTERNATIVES
(31) 2017105135	(11) EP3710779	(72) JOURDAN, Guillaume
(32) 17.02.2017	(21) EP18815859.6	FAIN, Bruno
(33) Russian Federation	(47) 09.02.2022	LEHEE, Guillaume
(51) G01B 11/24	(87) US2018060965	(31) 1858604
G01B 21/30	23.05.2019	(32) 21.09.2018
(11) EP3698102	(22) 14.11.2018	(33) France
(21) EP18796751.8	(54) UNMANNED AERIAL VEHICLE WITH	(51) G01C 21/34
(47) 09.02.2022	WALL THICKNESS MEASUREMENT	G05D 1/00
(87) IB2018057797	SENSOR, CORRESPONDING WALL	G05D 1/02
25.04.2019	THICKNESS MEASUREMENT METHOD	(11) EP3211375
(22) 09.10.2018	AND RETROFIT KIT WITH WALL	(21) EP14904511.4
(54) MEASURING DEVICE AND	THICKNESS MEASUREMENT SENSOR	(47) 09.02.2022
MEASURING METHOD FOR A	FOR AN UNMANNED AERIAL VEHICLE	(87) JP2014078124
GROOVED AXIALLY SYMMETRIC	(73) Saudi Arabian Oil Company	28.04.2016
BODY	(72) AL-JABR, Saad, A.	(22) 22.10.2014
(73) T.Q.M. Itaca Technology S.r.l.	(31) 201715812725	(54) TRAVEL ROUTE CALCULATION
(72) AIARDI, Pierluigi	(32) 14.11.2017	APPARATUS
APOSTOLI, Gianluca	(33) United States of America	(73) Nissan Motor Co., Ltd.
SCARATTI, Federico	(51) G01B 21/04	(72) FUJITA, Susumu
RUBAGOTTI, Giovanni Domenico	G01B 1/00	(51) G01C 21/34
GUERRINI, Vincenzo	B23Q 17/00	G05D 1/02
(31) 201700117026	(11) EP3559594	G01C 21/00
(32) 17.10.2017	(21) EP17823112.2	B60W 60/00
(33) Italy	(47) 09.02.2022	(11) EP3692339
(51) G01B 11/24	(87) EP2017083727	(21) EP18908263.9
G06T 7/521	28.06.2018	(47) 09.02.2022
G06T 7/80	(22) 20.12.2017	(87) CN2018123936
(11) EP3621293	(54) DEVICE FOR USE IN A NUMERICALLY	02.07.2020
(21) EP19793661.0	CONTROLLED MACHINE TOOL FOR	(22) 26.12.2018
(47) 09.02.2022	APPLICATION IN A METHOD FOR	(54) POLYNOMIAL-FIT BASED REFERENCE
(87) CN2019080601	MEASURING THE NUMERICALLY	LINE SMOOTHING METHOD
31.10.2019	CONTROLLED MACHINE TOOL	FOR HIGH SPEED PLANNING OF
(22) 29.03.2019	(73) DECKEL MAHO Pfronten GmbH	AUTONOMOUS DRIVING VEHICLES
(54) IMAGE PROCESSING METHOD,	(72) LOCHBIHLER, Thomas	(73) Baidu USA LLC
APPARATUS AND COMPUTER-	MARCZINEK, Stefan	Baidu.com Times Technology (Beijing)
READABLE STORAGE MEDIUM	MAIER, Marzell	Co., Ltd.
(73) GUANGDONG OPPO MOBILE	(31) 102016226073	(72) MA, Lin
TELECOMMUNICATIONS CORP., LTD.	(32) 22.12.2016	ZHU, Fan
(72) TAN, Guohui	(33) Germany	XU, Xin
AU, Kamwing	(51) G01C 15/00	(51) G01C 21/36
TAN, Xiao	(11) EP3358299	(11) EP3382343
ZHOU, Haitao	(21) EP18154816.5	(21) EP18162043.6
GUO, Ziqing	(47) 09.02.2022	(47) 09.02.2022
(31) 201810690949	(22) 02.02.2018	(22) 15.03.2018
201810404831	(54) SURVEYING SYSTEM	

(54) ELECTRONIC APPARATUS, POSITION SPECIFYING SYSTEM, POSITION SPECIFYING METHOD, AND PROGRAM	(54) TRANSDUCER FOR A VIBRONIC MEASURING SYSTEM AND ACCORDING VIBRONIC MEASUREMENT SYSTEM	(73) Hiab AB
(73) Casio Computer Co., Ltd.	(73) Endress+Hauser Flowtec AG	(72) HUOVA, Mikko
(72) IMAMURA, Keiichi	(72) LIN, Yaoying	SIIVONEN, Lauri
(31) 2017063846	ANKLIN, Martin Josef	SIREN, Pasi
(32) 28.03.2017	RIEDER, Alfred	(51) G01G 19/414
(33) Japan	BITTO, Ennio	(11) EP3569992
(51) G01C 21/36	(31) 102018102831	(21) EP18172620.9
G01C 21/20	102017123130	(47) 09.02.2022
H04R 1/10	(32) 08.02.2018	(22) 16.05.2018
H04S 7/00	05.10.2017	(54) SYSTEM AND METHOD FOR MANAGING INVENTORY
(11) EP3584539	(33) Germany	(73) Wincor Nixdorf International GmbH
(21) EP19181297.3	Germany	(72) SCHMELTER, Stefan
(47) 09.02.2022	(51) G01F 23/284	DIETZ, Oliver
(22) 22.08.2013	H01Q 13/02	(51) G01H 1/00
(54) ACOUSTIC NAVIGATION METHOD	H01Q 13/24	(11) EP2672240
(73) Sony Group Corporation	G01S 7/03	(21) EP13171022.0
(72) YAJIMA, Chikashi	H01Q 1/22	(47) 09.02.2022
TACHIBANA, Makoto	G01S 13/88	(22) 07.06.2013
SHIINA, Takashi	H01Q 1/00	(54) Campbell diagram displays and methods and systems for implementing same
SHIRAI, Yuichi	(11) EP2467683	(73) General Electric Company
TAKATSUKA, Susumu	(21) EP10740187.9	(72) Grant, John Wesley
NARUSE, Tetsuya	(47) 09.02.2022	Hatch, Charles T.
(31) 201261692947 P	(87) EP2010060519	(31) 201213492435
(32) 24.08.2012	24.02.2011	(32) 08.06.2012
(33) United States of America	(22) 21.07.2010	(33) United States of America
(51) G01C 21/36	(54) MEASURING INSTRUMENT FOR A PROCESS AUTOMATION TECHNIQUE FOR DETERMINING AND MONITORING A CHEMICAL OR PHYSICAL PROCESS VARIABLE IN A HIGH-TEMPERATURE PROCESS IN A CONTAINER	(51) G01H 3/12
G06F 3/0481	(73) Endress+Hauser SE+Co. KG	H05B 47/175
G06F 3/0488	(72) BERGMANN, Eric	(11) EP3625525
(11) EP2330383	FEISST, Klaus	(21) EP18720300.5
(21) EP10193262.2	(31) 102009028620	(47) 09.02.2022
(47) 09.02.2022	(32) 18.08.2009	(87) EP2018061562
(22) 01.12.2010	(33) Germany	22.11.2018
(54) Information device for a vehicle driver and method for controlling such a device	(51) G01F 23/296	(22) 04.05.2018
(73) MUNIC	B22F 10/20	(54) NOISE-FLOW MONITORING AND SOUND LOCALIZATION VIA INTELLIGENT LIGHTING
(72) Solomon, Aaron	B33Y 80/00	(73) Signify Holding B.V.
Poix, Jean-Baptiste	G01F 23/284	(72) BROERS, Harry
(31) 0958640	(11) EP3198244	RAJAGOPALAN, Ruben
(32) 03.12.2009	(21) EP15757277.7	(31) 17171196
(33) France	(47) 09.02.2022	(32) 16.05.2017
(51) G01D 18/00	(87) EP2015070016	(33) European Patent Office (EPO)
(11) EP3504515	31.03.2016	(51) G01J 1/00
(21) EP17752125.9	(22) 02.09.2015	G01J 1/16
(47) 09.02.2022	(54) METHOD FOR MANUFACTURING A CONTAINER FOR A MEDIUM	G01N 11/02
(87) EP2017070648	(73) Endress+Hauser SE+Co. KG	G01N 21/00
01.03.2018	(72) SPANKE, Dietmar	G01N 21/01
(22) 15.08.2017	(31) 102014113993	(11) EP3461283
(54) METHOD OF CALIBRATING AN ANGLE SENSOR AND ANGLE SENSOR	(32) 26.09.2014	(21) EP17776616.9
(73) Fraba B.V.	(33) Germany	(47) 09.02.2022
(72) LÖKEN, Michael	(51) G01G 19/12	(87) US2017024900
KETTERING, Uwe	G01M 1/12	05.10.2017
(31) 102016115624	B60P 1/64	(22) 30.03.2017
(32) 23.08.2016	(11) EP3627116	(54) COMPENSATING TURBIDITY MEASURING DEVICE AND METHOD OF USING IT
(33) Germany	(21) EP18195708.5	(73) Tintometer GmbH
(51) G01F 1/84	(47) 09.02.2022	(72) PALUMBO, Perry
G01N 9/00	(22) 20.09.2018	(31) 201662315298 P
G01N 11/16	(54) METHOD FOR DETERMINING THE MASS AND THE CENTRE OF MASS OF A DEMOUNTABLE PLATFORM	(32) 30.03.2016
(11) EP3692342		(33) United States of America
(21) EP18778913.6		(51) G01J 1/42
(47) 09.02.2022		G01J 1/02
(87) EP2018076280		G01J 1/04
11.04.2019		G01J 1/44
(22) 27.09.2018		

(11) EP3708980	(11) EP3553483	DURABILITY OF WEARABLE MOTION
(21) EP19199770.9	(21) EP19163593.7	ASSISTANCE DEVICE
(47) 09.02.2022	(47) 09.02.2022	(73) Cyberdyne Inc.
(22) 26.09.2019	(22) 19.03.2019	(72) OGAMI, Kazunori
(54) CONSTANT LIGHT SYSTEM AND	(54) MEASURING DEVICE FOR	NABESHIMA, Kota
AMBIENT-LIGHT INTENSITY	MEASURING FORCE AND / OR	MURAKAMI, Nobuyoshi
DETECTOR THEREOF	MOMENTS BETWEEN A MOTORIZED	(31) 2016242777
(73) Shenzhen Merrytek Technology Co., Ltd	VEHICLE AND A PULLED OR PUSHED	(32) 14.12.2016
(72) ZOU, Xin	TRAILER	(33) Japan
ZOU, Gaodi	(73) ZF CV Systems Hannover GmbH	(51) G01M 13/005
(31) 201910197299	(72) BÜHRKE, Johannes	(11) EP3785003
(32) 15.03.2019	THIELKE, Lars	(21) EP19714317.5
(33) China	ZIELKE, Frank	(47) 09.02.2022
(51) G01J 1/42	FRERICHS, Ludger	(87) EP2019025079
G01J 1/44	HANKKE, Steffen	31.10.2019
G01J 5/20	KEMPER, Sebastian	(22) 26.03.2019
H01L 27/144	BRÜTT, Mirko	(54) TEST DEVICE AND TEST STAND FOR
H01L 39/10	(31) 102018106856	SHAFT SEAL RINGS
(11) EP3121855	(32) 22.03.2018	(73) Sew-Eurodrive GmbH & Co. KG
(21) EP14886349.1	(33) Germany	(72) SCHÜTTERLE, Ingo
(47) 09.02.2022	(51) G01M 1/02	HÜTTINGER, Alexander
(87) CN2014077204	G01M 1/04	WÖPPERMANN, Markus
24.09.2015	G01M 1/16	WEISENBURGER, Julia
(22) 12.05.2014	G01M 1/22	(31) 102018003292
(54) METHOD AND DEVICE FOR	(11) EP3839468	(32) 23.04.2018
REDUCING EXTRINSIC DARK COUNT	(21) EP19218488.5	(33) Germany
OF NANOWIRE SINGLE PHOTON	(47) 09.02.2022	(51) G01N 1/38
DETECTOR	(22) 20.12.2019	B01F 3/20
(73) Shanghai Institute Of Microsystem	(54) METHOD FOR BALANCING A ROTOR	G01N 35/10
And Information Technology, Chinese	(73) Robert Bosch S.p.A.	G01N 35/00
Academy Of Sciences	(72) DAMBACH, Gerhard	(11) EP3721204
(72) WANG, Zhen	SAVARESI, Sergio Matteo	(21) EP18833087.2
LI, Hao	TANELLI, Mara	(47) 09.02.2022
YOU, Lixing	POZZATO, Gabriele	(87) FR2018053077
ZHANG, Weijun	STRADA, Silvia Carla	13.06.2019
YANG, Xiaoyan	(51) G01M 3/16	(22) 03.12.2018
(31) 201410106302	G01B 7/06	(54) DEVICE FOR PREPARING REAGENT
(32) 20.03.2014	G01N 15/08	FOR PARTICLE ANALYSIS DEVICES
(33) China	(11) EP2929313	(73) Horiba ABX SAS
(51) G01K 1/16	(21) EP13802024.3	(72) THORAVAL, Coralie
G01K 1/14	(47) 09.02.2022	(31) 1761596
(11) EP3729030	(87) EP2013075511	(32) 04.12.2017
(21) EP18836364.2	12.06.2014	(33) France
(47) 09.02.2022	(22) 04.12.2013	(51) G01N 11/00
(87) EP2018086351	(54) APPARATUS AND METHOD FOR	G01N 3/32
27.06.2019	DETERMINING THE AVERAGE LAYER	G01N 11/14
(22) 20.12.2018	THICKNESS AND THE PERMEATION	F16C 32/04
(54) A TANK COMPRISING A PRESSURE	RATE OF A PACKAGING MATERIAL	(11) EP3534142
SENSOR AND ANOTHER SENSOR	(73) BOEHRINGER INGELHEIM	(21) EP19156352.7
(73) Plastic Omnium Advanced Innovation	INTERNATIONAL GMBH	(47) 09.02.2022
And Research	(72) BALTHES, Eduard	(22) 11.02.2019
(72) CHAUSSINAND, Antoine	BRAUN, Mathias	(54) RHEOMETER
HILL, David	(31) 12195956	(73) Anton Paar GmbH
(31) 17209095	(32) 06.12.2012	(72) KOTZIAN, Heimo
(32) 20.12.2017	(33) European Patent Office (EPO)	KRAKER, Martin
(33) European Patent Office (EPO)	(51) G01M 7/08	ROMIRER, Richard
(51) G01L 1/22	A61H 3/00	(31) 501742018
A01B 63/00	G01L 5/00	(32) 01.03.2018
B60D 1/00	G01N 3/30	(33) Austria
B60T 1/00	G01N 3/34	(51) G01N 21/03
G01L 5/13	(11) EP3557215	G01N 21/05
G01L 5/16	(21) EP17880678.2	G01N 21/76
G01L 1/16	(47) 09.02.2022	G01F 23/02
B60T 7/20	(87) JP2017044800	G01F 23/284
B60T 8/17	21.06.2018	G01F 23/292
B60T 13/08	(22) 13.12.2017	G01N 21/69
B60T 13/66	(54) APPARATUS AND METHOD	B01L 3/00
B60T 8/00	FOR TESTING STRENGTH AND	B01L 7/00

B01L 9/00	G01N 21/84	TISCHLER, Ylva
(11) EP3514519	(11) EP3477282	THIESSEN, Eiko
(21) EP19000097.6	(21) EP18199528.3	(31) 13198050
(47) 09.02.2022	(47) 09.02.2022	(32) 18.12.2013
(22) 03.12.2010	(22) 10.10.2018	(33) European Patent Office (EPO)
(54) ASSAY CARTRIDGES	(54) METHOD AND APPARATUS	(51) G01N 21/65
(73) Meso Scale Technologies, LLC.	DETERMINING RESIN COLOR	B82Y 15/00
(72) LAWRENCE, Noel	(73) Panasonic Intellectual Property	B82Y 40/00
SIGAL, George	Management Co., Ltd.	(11) EP2889605
PAGE, Kenneth	(72) HAMADA, Shingo	(21) EP13827159.8
ANDERSON, Nicholas	SUZUKI, Noriyuki	(47) 09.02.2022
GLEZER, Eli N.	(31) 2018121184	(87) JP2013071696
KUMAR, Sudeep	2017209068	13.02.2014
WEST, Sharon	(32) 26.06.2018	(22) 09.08.2013
DEBAD, Jeffery	30.10.2017	(54) SURFACE-ENHANCED RAMAN
(31) 28427609 P	(33) Japan	SCATTERING ELEMENT
28392709 P	Japan	(73) Hamamatsu Photonics K.K.
28367709 P	(51) G01N 21/552	(72) ITO, Masashi
(32) 16.12.2009	G01N 21/958	SHIBAYAMA, Katsumi
10.12.2009	B60S 1/08	MARUYAMA, Yoshihiro
07.12.2009	G01N 21/94	(31) 2012178773
(33) United States of America	(11) EP3712597	(32) 10.08.2012
United States of America	(21) EP20164268.3	(33) Japan
United States of America	(47) 09.02.2022	(51) G01N 21/76
(51) G01N 21/17	(22) 19.03.2020	G01N 21/64
G01F 23/292	(54) OPTICAL RAIN SENSOR	(11) EP3189325
G01N 21/85	(73) Littelfuse, Inc.	(21) EP15838441.2
G01N 21/43	(72) RASIULIS, Mangirdas	(47) 09.02.2022
G01N 21/41	KETLERIUS, Mindaugas	(87) FI2015050578
(11) EP2980559	(31) 201962820983 P	10.03.2016
(21) EP14774478.3	(32) 20.03.2019	(22) 03.09.2015
(47) 09.02.2022	(33) United States of America	(54) METHOD AND APPARATUS FOR
(87) BR2014000088	(51) G01N 21/63	OPTICAL MEASUREMENT OF A
02.10.2014	G01N 21/71	LIQUID SAMPLE
(22) 19.03.2014	(11) EP3505912	(73) Life Technologies Holdings PTE LTD
(54) MULTIPARAMETER DEVICE FOR	(21) EP16913957.3	(72) PORTTILA, Sauli
MEASURING BY OPTICAL MEANS	(47) 09.02.2022	LAMPINEN, Jorma
THE FILLING LEVEL OF TANKS AND	(87) CN2016101742	TUUNANEN, Jukka
RESERVOIRS OF LIQUIDS AND	01.03.2018	KÄRMENIEMI, Timo
LIQUEFIED PRODUCTS, THE INDEX	(22) 11.10.2016	SAIRANEN, Matti
OF REFRACTION, AND FOR IMAGE	(54) METHOD FOR DETECTING	VON LERBER, Tuomo
ANALYSIS, WITHOUT MOVING PARTS	COMPOSITION OF STEEL SAMPLE BY	(31) 20146110
(73) Luxtec - Sistemas Ópticos Ltda - ME	USING MULTI-PULSE LASER-INDUCED	20145774
(72) OMEGNA DE SOUZA FILHO, Cícero	PLASMA SPECTROMETER	(32) 17.12.2014
Lívio	(73) Academy of Opto-Electronics Chinese	05.09.2014
(31) 102013006794	Academy of Sciences	(33) Finland
(32) 25.03.2013	(72) FAN, Zhongwei	Finland
(33) Brazil	SUN, Hui	(51) G01N 21/77
(51) G01N 21/3504	(31) 201610717184	G02B 6/42
G01J 3/42	(32) 24.08.2016	G01N 21/64
G01N 21/31	(33) China	(11) EP3239695
G01N 21/359	(51) G01N 21/64	(21) EP17168543.1
G01J 3/10	G01N 21/63	(47) 09.02.2022
G01J 3/28	A01G 7/00	(22) 27.04.2017
(11) EP3507588	G01N 33/00	(54) DEVICE FOR DETECTING A
(21) EP17768186.3	(11) EP3084401	SUBSTANCE IN A FLUID
(47) 09.02.2022	(21) EP14815682.1	(73) Commissariat à l'Energie Atomique et
(87) FR2017052322	(47) 09.02.2022	aux Energies Alternatives
08.03.2018	(87) EP2014078198	(72) HAMM, Stephan
(22) 01.09.2017	25.06.2015	HUE, Jean
(54) METHOD FOR ANALYSING A GAS	(22) 17.12.2014	(31) 1653899
(73) Elichens	(54) DETERMINATION OF A FUNGAL	(32) 29.04.2016
(72) CARITU, Yanis	INFECTION OF A PLANT BY	(33) France
(31) 1658243	CHLOROPHYLL FLUORESCENCE	(51) G01N 21/87
(32) 05.09.2016	INDUCED BY DIFFERENT EXCITATION	(11) EP3729063
(33) France	WAVELENGTHS	(21) EP18836529.0
(51) G01N 21/3563	(73) BASF SE	(47) 09.02.2022
B07C 5/342	(72) HARTUNG, Eberhard	(87) IB2018060450

27.06.2019	(54) PROCESS AND APPARATUS FOR	(47) 09.02.2022
(22) 20.12.2018	SCRAP METAL SCANNING	(87) US2011028090
(54) SYSTEM AND METHOD FOR	(73) Scrapscanner B.V.	15.09.2011
SPECTROSCOPY ANALYSIS OF	(72) REM, Peter Carlo	(22) 11.03.2011
DIAMONDS	VAN DE POLL, Martijn	(54) MAGNETIC SENSOR BASED
(73) Università degli Studi di Milano - Bicocca	STAAL, Hendrikus	QUANTITATIVE BINDING KINETICS
(72) ZULLINO, Andrea	BERKHOUT, Simon Petrus Maria	ANALYSIS
PALEARI, Alberto Maria Felice	(31) 2017769	(73) The Board of Trustees of the Leland
LORENZI, Roberto	(32) 11.11.2016	Stanford Junior University
(31) 201700148104	(33) Netherlands	(72) HAN, Shu-Jen
(32) 21.12.2017	(51) G01N 25/18	XU, Liang
(33) Italy	G01N 33/48	WANG, Shan, X.
(51) G01N 21/90	G01N 33/50	WILSON, Robert
(11) EP3286553	G01N 33/543	GASTER, Richard, S.
(21) EP16723528.2	(11) EP3415899	(31) 313604 P
(47) 09.02.2022	(21) EP17175655.4	(32) 12.03.2010
(87) IB2016052262	(47) 09.02.2022	(33) United States of America
27.10.2016	(22) 13.06.2017	(51) G01N 29/00
(22) 21.04.2016	(54) METHOD FOR IMMOBILIZING	B41J 2/045
(54) APPARATUS AND METHOD FOR	MOLECULARLY IMPRINTED	(11) EP3620787
OPTICAL INSPECTION OF PARISONS	POLYMERS	(21) EP19204276.0
(73) Sacmi Cooperativa Meccanici Imola	(73) IMEC vzw	(47) 09.02.2022
Societa' Cooperativa	Universiteit Hasselt	(22) 26.01.2011
(72) LAICO, Donato	(72) KELLENS, Evelien	(54) FOCUS-ACTIVATED ACOUSTIC
(31) BO20150203	ETHIRAJAN, Anitha	EJECTION
(32) 21.04.2015	(51) G01N 27/12	(73) Labcyte Inc.
(33) Italy	G01N 33/00	(72) ELLSON, Richard N.
(51) G01N 21/95	(11) EP3591389	(31) 29841510 P
G01N 21/88	(21) EP17898362.3	(32) 26.01.2010
(11) EP3502672	(47) 09.02.2022	(33) United States of America
(21) EP17382869.0	(87) KR2017005665	(51) G01N 33/48
(47) 09.02.2022	07.09.2018	G01N 15/14
(22) 20.12.2017	(22) 31.05.2017	C12M 1/34
(54) METHODS AND SYSTEMS FOR	(54) DUAL HEATER GAS SENSOR MODULE	(11) EP3350593
VISUAL INSPECTION	(73) LG Electronics Inc.	(21) EP16847318.9
(73) Universidad del Pais Vasco/Euskal	(72) HWANG, Insung	(47) 09.02.2022
Herriko Unibertsitatea	KIM, Moosub	(87) US2016051970
Fundacion Tecnalia Research &	(31) 20170027695	23.03.2017
Innovation	(32) 03.03.2017	(22) 15.09.2016
(72) Duro Rodriguez, Gorka	(33) Korea (Republic)	(54) THRESHOLD SELECTOR FOR FLOW
Isasi Andrieu, Alberto	(51) G01N 27/333	CYTOMETER
Iriondo Bengoa, Pedro Maria	G01N 33/62	(73) Bio-Rad Laboratories, Inc.
Garrote Contreras, Estibaliz	G01N 33/49	(72) FOX, Daniel, Nelson
(51) G01N 23/20	(11) EP3391038	(31) 201615264326
G01N 23/201	(21) EP16861086.3	201562219049 P
G01N 23/207	(47) 09.02.2022	(32) 13.09.2016
G21K 1/06	(87) EP2016080607	15.09.2015
(11) EP3845891	27.07.2017	(33) United States of America
(21) EP19290126.2	(22) 12.12.2016	United States of America
(47) 09.02.2022	(54) METHOD OF OPERATING A MIXED	(51) G01N 33/49
(22) 30.12.2019	IONOPHORE ION-SELECTIVE	G01N 1/38
(54) X-RAY SCATTERING APPARATUS	ELECTRODE FOR THE IMPROVED	G01N 33/96
(73) Xenocs SAS	DETECTION OF UREA IN BLOOD	(11) EP3321676
(72) HØGHØJ, Peter (c/o Xenocs SAS)	(73) Radiometer Medical ApS	(21) EP16821431.0
MAHE, Ronan (c/o Xenocs SAS)	(72) SOERENSEN, Paul, Ravn	(47) 09.02.2022
JOENSEN, Karsten (c/o Xenocs Inc.)	KJAER, Thomas	(87) JP2016070007
(51) G01N 23/204	JAKOBSEN, Hans, Peter, Blaabjerg	12.01.2017
G01V 5/00	MICHELSSEN, Lone	(22) 06.07.2016
B03C 1/00	(31) 201500818	(54) BLOOD TEST KIT AND BLOOD
C22B 1/00	(32) 18.12.2015	ANALYSIS METHOD
G01N 21/71	(33) Denmark	(73) FUJIFILM Corporation
G01N 21/85	(51) G01N 27/74	(72) NAKATSUGAWA Haruyasu
(11) EP3538880	C12Q 1/68	YAMASHITA Seiji
(21) EP17817233.4	G01N 33/483	OSAWA Susumu
(47) 09.02.2022	G01N 33/53	SUGIMOTO Shinya
(87) NL2017050732	G01N 33/557	(31) 2015135067
17.05.2018	(11) EP2545367	(32) 06.07.2015
(22) 13.11.2017	(21) EP11754157.3	(33) Japan

(51) G01N 33/493 A61B 10/00 B01L 3/00	(87) GB2012050964 08.11.2012	NEUGEBAUER, Eva STIBA, Konstanze
(11) EP3373003 (21) EP18169356.5 (47) 09.02.2022 (22) 05.10.2015 (54) URINE TEST STRIP (73) Duravit Aktiengesellschaft (72) JANSEN, Dirk SPANGENBERG, Bernd KAISER, Bernd	(22) 03.05.2012 (54) DEVICE AND METHOD FOR NON-INVASIVE COLLECTION OF COLORECTAL MUCOCELLULAR LAYER AND DISEASE DETECTION (73) Diagnodus Limited (72) ANDERSON, Neil BANDALETOVA, Tatiana LOKTIONOV, Alexandre	(51) G01N 33/68 G01N 33/74 G01N 33/86 (11) EP3682247 (21) EP18765659.0 (47) 09.02.2022 (87) EP2018074725 21.03.2019 (22) 13.09.2018 (54) PROADRENOMEDULLIN AS A MARKER FOR ABNORMAL PLATELET LEVELS
(31) 102014115914 (32) 31.10.2014 (33) Germany	(31) 201107466 (32) 05.05.2011 (33) United Kingdom	(73) B.R.A.H.M.S GmbH (72) PEHLA, Aline WILSON, Darius KIRSCH, Stefan
(51) G01N 33/50 (11) EP3108003 (21) EP15751902.6 (47) 09.02.2022 (87) US2015016868 27.08.2015 (22) 20.02.2015 (54) DE NOVO DESIGN OF ALLOSTERIC PROTEINS (73) President and Fellows of Harvard College (72) TAYLOR, Noah D. RAMAN, Srivatsan CHURCH, George M.	(31) 201461942755 P (32) 21.02.2014 (33) United States of America	(31) 18161091 17190912 (32) 09.03.2018 13.09.2017 (33) European Patent Office (EPO) European Patent Office (EPO)
(51) G01N 33/50 (11) EP3185012 (21) EP17156147.5 (47) 09.02.2022 (22) 04.11.2009 (54) METHOD FOR IDENTIFICATION, SELECTION AND ANALYSIS OF TUMOUR CELLS (73) Menarini Silicon Biosystems S.p.A. (72) GIORGINI, Giuseppe MEDORO, Gianni MANARESI, Nicolò	(51) G01N 33/53 G01N 35/10 G01N 35/00 (11) EP3325965 (21) EP16828686.2 (47) 09.02.2022 (87) US2016043873 26.01.2017 (22) 25.07.2016 (54) ON-BOARD KITTING (73) Hycor Biomedical, Inc. (72) VAN CLEVE, Mark, David (31) 201562214773 P 201562195878 P (32) 04.09.2015 23.07.2015 (33) United States of America United States of America	(51) G01N 35/00 G01N 35/02 G01N 35/04 (11) EP2808683 (21) EP12866882.9 (47) 09.02.2022 (87) JP2012083132 01.08.2013 (22) 20.12.2012 (54) AUTOMATIC ANALYSIS DEVICE (73) Hitachi High-Tech Corporation (72) SUZUKI Yoshihiro OKUSA Takenori NAKAMURA Kazuhiro
(31) 2020080814 (32) 04.11.2008 (33) Italy	(51) G01N 33/50 (11) EP3583421 (21) EP17842354.7 (47) 09.02.2022 (87) EP2017001383 12.04.2018 (22) 28.11.2017 (54) NOVEL IN VITRO SYSTEM FOR PREDICTING THE EFFICACY OF DRUG COMBINATIONS IN TUMOR CELLS OR OTHER TARGET CELLS (73) Kischkel, Frank ,Christian (72) Kischkel, Frank ,Christian (31) 102016011765 (32) 04.10.2016 (33) Germany	(31) 2012011541 (32) 23.01.2012 (33) Japan
(51) G01N 33/50 (11) EP3583421 (21) EP17842354.7 (47) 09.02.2022 (87) EP2017001383 12.04.2018 (22) 28.11.2017 (54) NOVEL IN VITRO SYSTEM FOR PREDICTING THE EFFICACY OF DRUG COMBINATIONS IN TUMOR CELLS OR OTHER TARGET CELLS (73) Kischkel, Frank ,Christian (72) Kischkel, Frank ,Christian (31) 102016011765 (32) 04.10.2016 (33) Germany	(51) G01N 33/50 (11) EP3583421 (21) EP17842354.7 (47) 09.02.2022 (87) EP2017001383 12.04.2018 (22) 28.11.2017 (54) NOVEL IN VITRO SYSTEM FOR PREDICTING THE EFFICACY OF DRUG COMBINATIONS IN TUMOR CELLS OR OTHER TARGET CELLS (73) Kischkel, Frank ,Christian (72) Kischkel, Frank ,Christian (31) 102016011765 (32) 04.10.2016 (33) Germany	(51) G01N 35/10 B01L 3/00 (11) EP3740313 (21) EP18826658.9 (47) 09.02.2022 (87) EP2018086162 18.07.2019 (22) 20.12.2018 (54) METHOD FOR PROVIDING A SOLUTION OF THE SUBSTANCE IN A MICROFLUIDIC DEVICE (73) Robert Bosch GmbH (72) FRANK, Tino (31) 102018200520 (32) 15.01.2018 (33) Germany
(51) G01N 33/50 G01N 33/574 (11) EP2705363 (21) EP12730009.3 (47) 09.02.2022	(31) 201615269543 (32) 19.09.2016 (33) United States of America	(51) G01P 3/49 G01P 3/50 G01P 3/52 (11) EP3584586 (21) EP19176947.0 (47) 09.02.2022 (22) 28.05.2019 (54) SPEED DETECTING DEVICE AND SPEED DETECTING METHOD (73) Nabtesco Corporation (72) KOLAR, Johann W.
	(51) G01N 33/569 C07K 14/005 C07K 14/165 (11) EP3869199 (21) EP20215445.6 (47) 09.02.2022 (22) 20.02.2020 (54) A METHOD AND REAGENTS FOR THE DIAGNOSIS OF SARS-COV-2 (73) Charité - Universitätsmedizin Berlin EUROIMMUN Medizinische Labordiagnostika AG (72) MESSING, Claudia STEINHAGEN, Katja LATTWEIN, Erik MÜLLER, Marcel LINDHORST, Fabian CORMAN, Victor	

TUEYSUEZ, Arda	(73) YAZAKI CORPORATION	(21) EP18811190.0
NAKAMURA, Kazuhito	(72) TOTSUKA, Shigeki	(47) 09.02.2022
FLANKL, Michael	AONO, Yuusuke	(87) EP2018082345
TSUKADA, Yusuke	MAKINO, Yoshiaki	25.07.2019
(31) 2018102399	(31) 2019161885	(22) 23.11.2018
(32) 29.05.2018	(32) 05.09.2019	(54) ELECTRICAL CIRCUIT FOR TESTING
(33) Japan	(33) Japan	PRIMARY INTERNAL SIGNALS ON AN
(51) G01P 3/50	(51) G01R 15/16	ASIC
G01P 3/49	G01R 15/18	(73) Robert Bosch GmbH
G01P 3/66	G01R 15/20	(72) HERMANN, Carsten
(11) EP3584587	G01R 19/165	(31) 102018200723
(21) EP19177206.0	H02J 3/18	(32) 17.01.2018
(47) 09.02.2022	H02J 3/20	(33) Germany
(22) 29.05.2019	H02J 3/24	(51) G01R 33/24
(54) SPEED DETECTING DEVICE AND	G05F 1/70	(11) EP3730959
SPEED DETECTING METHOD	H02J 13/00	(21) EP20160154.9
(73) Nabtesco Corporation	(11) EP3414577	(47) 09.02.2022
(72) FLANKL, Michael	(21) EP16890099.1	(22) 28.02.2020
NAKAMURA, Kazuhito	(47) 09.02.2022	(54) SLAVE ZERO FIELD MAGNETOMETER
TUEYSUEZ, Arda	(87) US2016063200	WITH LOW-FREQUENCY FILTERING
TSUKADA, Yusuke	17.08.2017	OF THE COMPENSATION FIELD
KOLAR, Johann W.	(22) 21.11.2016	(73) Commissariat à l'énergie atomique et aux
(31) 2018102397	(54) SYSTEM AND METHOD FOR	énergies alternatives
(32) 29.05.2018	DISTRIBUTED GRID CONTROL WITH	(72) PALACIOS LALOY, Agustin
(33) Japan	SUB-CYCLIC LOCAL RESPONSE	LE PRADO, Matthieu
(51) G01P 15/125	CAPABILITY	(31) 1902495
B81B 3/00	(73) Smart Wires Inc.	(32) 12.03.2019
G01D 5/241	(72) ZHOU, Aaron	(33) France
G01P 15/08	IYER, Amrit	(51) G01R 33/32
(11) EP3739344	DAS, Debrup	G01N 24/10
(21) EP20170531.6	INAM, Haroon	G01R 33/60
(47) 09.02.2022	KREIKEBAUM, Frank	G01R 33/26
(22) 21.04.2020	(31) 201615068397	G01N 24/00
(54) ROBUST Z-AXIS ACCELERATION	201662294230 P	(11) EP3591419
SENSOR	(32) 11.03.2016	(21) EP19182758.3
(73) Murata Manufacturing Co., Ltd.	11.02.2016	(47) 09.02.2022
(72) Vesterinen, Hannu	(33) United States of America	(22) 27.06.2019
Liukku, Matti	United States of America	(54) MAGNETIC FIELD MEASUREMENT
Rytkönen, Ville-Pekka	(51) G01R 31/08	APPARATUS AND MAGNETIC FIELD
(31) 20195402	G01R 15/14	MEASUREMENT METHOD
(32) 15.05.2019	H02H 3/38	(73) Sumida Corporation
(33) Finland	H02H 7/26	(72) YOSHII, Yoshiharu
(51) G01P 21/00	(11) EP2985613	MIZUOCHI, Norikazu
B61F 99/00	(21) EP14772927.1	(31) 2018126541
(11) EP3329286	(47) 09.02.2022	(32) 03.07.2018
(21) EP16766504.1	(87) CN2014074206	(33) Japan
(47) 09.02.2022	02.10.2014	(51) G01R 33/385
(87) EP2016070946	(22) 27.03.2014	G01R 33/28
06.04.2017	(54) METHOD AND SYSTEM FOR	(11) EP2294436
(22) 06.09.2016	DETECTING AND LOCATING SINGLE-	(21) EP09767831.2
(54) METHOD FOR DETECTING A DEFECT	PHASE GROUND FAULT ON LOW	(47) 09.02.2022
IN AN ACCELERATION SENSOR AND	CURRENT GROUNDED POWER-	(87) US2009047960
MEASURING SYSTEM	DISTRIBUTION NETWORK	23.12.2009
(73) Siemens Mobility GmbH	(73) Beijing Inhand Networks Technology Co.,	(22) 19.06.2009
(72) KNOLL, Markus	Ltd.	(54) METHOD FOR DECREASING BIO-
RACKL, Hugo	(72) TANG, Xianwu	EFFECTS OF MAGNETIC FIELD
KITZMÜLLER, Christian	ZHANG, Jianliang	GRADIENTS
SCHROEDER-BODENSTEIN, Kaspar	LI, Jinao	(73) Weinberg, Irving
(31) 102015218941	ZANG, Hongwei	(72) Weinberg, Irving
(32) 30.09.2015	(31) 201310120519	(31) 74397 P
(33) Germany	201310106380	(32) 20.06.2008
(51) G01R 1/20	(32) 09.04.2013	(33) United States of America
(11) EP3789773	29.03.2013	(51) G01R 33/48
(21) EP20194221.6	(33) China	G01R 33/56
(47) 09.02.2022	China	(11) EP3391069
(22) 03.09.2020	(51) G01R 31/3167	(21) EP16806191.9
(54) SHUNT-RESISTANCE TYPE CURRENT	G01R 31/317	(47) 09.02.2022
DETECTOR	(11) EP3740771	(87) EP2016080546

22.06.2017	(47) 09.02.2022	ROESSL, Ewald
(22) 12.12.2016	(87) EP2018000584	(31) 16173344
(54) SEGMENTATION OF QUANTITATIVE SUSCEPTIBILITY MAPPING	27.06.2019	(32) 07.06.2016
MAGNETIC RESONANCE IMAGES	(22) 21.12.2018	(33) European Patent Office (EPO)
(73) Koninklijke Philips N.V.	(54) METHOD FOR CHECKING THE ASSOCIATION OF RADIO NODES WITH A RADIO ENVIRONMENT BY EVALUATING INTERFERENCE SIGNAL COMPONENTS	(51) G01V 1/16 G01V 1/18 H02G 13/00 G01V 1/00
(72) KATSCHER, Ulrich MEINEKE, Jan Jakob	(73) Metirionic GmbH	(11) EP3446155
(31) 15200768	(72) EGGERT, Dietmar	(21) EP16899679.1
(32) 17.12.2015	(31) 102017011879	(47) 09.02.2022
(33) European Patent Office (EPO)	201862622689 P	(87) US2016055591
(51) G01R 33/483	(32) 21.12.2017	26.10.2017
G01R 33/565	(32) 21.12.2018	(22) 05.10.2016
G01R 33/561	(33) Germany	(54) LIGHTNING PROTECTION FOR LAND SEISMIC SENSOR UNIT
G01R 33/563	United States of America	(73) Schlumberger Technology B.V.
(11) EP3627172	(51) G01S 13/89	(72) MULLER, Lars
(21) EP18195188.0	G01V 3/12	AMAR, Sara
(47) 09.02.2022	(11) EP2862003	(31) 201662324329 P
(22) 18.09.2018	(21) EP13730054.7	(32) 18.04.2016
(54) METHOD AND APPARATUS FOR SIMULTANEOUS MULTI-SLICE MAGNETIC RESONANCE IMAGING	(47) 09.02.2022	(33) United States of America
(73) Siemens Healthcare GmbH	(87) GB2013051545	(51) G01V 1/36 G01V 1/32 G01V 1/30
(72) Zeller, Mario	19.12.2013	(11) EP3326010
(51) G01R 33/485	(22) 12.06.2013	(21) EP16828362.0
G01R 33/56	(54) METHODS FOR DETERMINING MATERIAL AND/OR SUBSURFACE COMPOSITION	(47) 09.02.2022
G01R 33/565	(73) Adrok Ltd.	(87) US2016042782
G01R 33/483	(72) ROBINSON, Michael James	26.01.2017
(11) EP3513209	STOVE, Gordon Douglas Colvin	(22) 18.07.2016
(21) EP17732437.3	STOVE, George Colin	(54) SYSTEMS AND METHODS FOR DETECTING SUBSURFACE FEATURES USING 3D ANGLE GATHERS
(47) 09.02.2022	(31) 201210480	(73) Fairfield Industries Incorporated
(87) EP2017065571	(32) 13.06.2012	(72) SCHNEIDER, William Aeppli
22.03.2018	(33) United Kingdom	(31) 201514806418
(22) 23.06.2017	(51) G01S 19/40	(32) 22.07.2015
(54) NMR SPECTROSCOPIC CHEMICAL-SHIFT IMAGING	G01S 19/14	(33) United States of America
(73) Universiteit Gent	G01S 19/07	(51) G01V 3/12 G01V 3/08
(72) SERRAI, Hacene	(11) EP3405811	(11) EP3318901
ACHTEN, Eric	(21) EP17741978.5	(21) EP17208536.7
BHADURI, Sourav	(47) 09.02.2022	(47) 09.02.2022
(31) 16188475	(87) US2017014250	(22) 14.04.2017
(32) 13.09.2016	27.07.2017	(54) DETECTOR OF UNAUTHORISED OBJECTS OR MATERIALS CONCEALED IN A SHOE
(33) European Patent Office (EPO)	(22) 20.01.2017	(73) Manneschi, Alessandro
(51) G01R 33/563	(54) LONG TERM REPEATABILITY OF DETERMINED POSITION IN GNSS NAVIGATION SYSTEM	(72) Manneschi, Alessandro
(11) EP3105606	(73) Deere & Company	(31) 1653385
(21) EP15746618.6	(72) CHEN, Yiqun	(32) 15.04.2016
(47) 09.02.2022	DAI, Liwen L.	(33) France
(87) SE2015050156	(31) 201615285409	(51) G01V 3/17 G06Q 10/06
13.08.2015	201662281522 P	(11) EP3255465
(22) 10.02.2015	(32) 04.10.2016	(21) EP17153646.9
(54) METHOD FOR QUANTIFYING ISOTROPIC DIFFUSION AND/OR ANISOTROPIC DIFFUSION IN A SAMPLE	21.01.2016	(47) 09.02.2022
(73) CR Development AB	(33) United States of America	(22) 27.01.2017
(72) NILSSON, Markus	United States of America	(54) BURIED ASSET LOCATE DEVICE MOTION SENSING FOR QUALITY CONTROL
LASIC, Samo	(51) G01T 1/17	(73) Haddy, Alan
TOPGAARD, Daniel	G01T 1/24	(72) Haddy, Alan
(31) 201461937941 P	(11) EP3465276	(31) 201615215331
(32) 10.02.2014	(21) EP17727268.9	201615144423
(33) United States of America	(47) 09.02.2022	(32) 20.07.2016
(51) G01S 5/02	(87) EP2017063809	02.05.2016
G01S 13/74	14.12.2017	
H04W 4/02	(22) 07.06.2017	
H04W 4/40	(54) DEAD-TIME CALIBRATION FOR A RADIATION DETECTOR	
G07C 9/00	(73) Koninklijke Philips N.V.	
(11) EP3692388	(72) STEADMAN BOOKER, Roger	
(21) EP18836346.9		

(33) United States of America United States of America	(21) EP12852141.6 (47) 09.02.2022	(72) XIANG, Hong (31) 201811633685
(51) G02B 5/00 G02B 21/34 G02B 21/36	(87) US2012066180 30.05.2013	(32) 29.12.2018 (33) China
(11) EP3394649 (21) EP16816707.0 (47) 09.02.2022	(22) 21.11.2012 (54) BREAKOUT ASSEMBLIES AND ASSOCIATED MOUNTING MEMBERS FOR FIBER OPTIC APPLICATIONS	(51) G02B 21/24 (11) EP3367153 (21) EP17158143.2 (47) 09.02.2022
(87) EP2016082564 29.06.2017 (22) 23.12.2016	(73) Ortronics, Inc. (72) MURANO, Adam RYNASKI, Chester, H.	(22) 27.02.2017 (54) CODED ZOOM KNOB, MICROSCOPE HAVING THE SAME AND METHOD FOR RETROFITTING A CODED ZOOM KNOB
(54) CALIBRATION SLIDE FOR DIGITAL PATHOLOGY (73) Koninklijke Philips N.V. (72) BOAMFA, Marius, Iosif VALSTER, Susanne, Maaike SHRESTHA, Prarthana	(31) 201113301034 (32) 21.11.2011 (33) United States of America	(73) Leica Instruments (Singapore) Pte. Ltd. (72) Peng, Liu Bosch, Andreas Chee-keong, Chew
(31) 15202506 (32) 23.12.2015 (33) European Patent Office (EPO)	(51) G02B 6/44 (11) EP3633432 (21) EP18809868.5 (47) 09.02.2022	(51) G02B 21/26 G01Q 30/02 G01Q 30/18 G01Q 30/20 G01Q 30/14 G01Q 30/16
(51) G02B 5/08 (11) EP2962137 (21) EP14708779.5 (47) 09.02.2022	(87) JP2018017936 06.12.2018 (22) 09.05.2018 (54) OPTICAL FIBER CABLE AND METHOD FOR MANUFACTURING OPTICAL FIBER CABLE	(11) EP3314271 (21) EP16815065.4 (47) 09.02.2022 (87) US2016037496 29.12.2016 (22) 15.06.2016
(87) US2014018519 04.09.2014 (22) 26.02.2014	(73) Fujikura Ltd. (72) NAMAZUE, Akira TAKI, Go OSATO, Ken SHIMIZU, Shogo	(54) SAMPLE VESSEL RETENTION FOR AN INVERTED MICROSCOPE WITH A SCANNING PROBE MICROSCOPE (73) Bruker Nano, Inc. (72) HU, Shuiqing SU, Chanmin SHAW, James MEYER, Charles
(54) ENHANCED, DURABLE SILVER COATING STACKS FOR HIGHLY REFLECTIVE MIRRORS (73) Corning Incorporated (72) BALLOU, Jason S. SOUCY, Timothy R. WANG, Jue HART, Gary Allen WALTON, Robin Merchant WAMBOLDT, Leonard Gerard GAGLIARDI, Frederick J.	(31) 2018039696 2017109872 (32) 06.03.2018 02.06.2017 (33) Japan Japan	(31) 201562184779 P (32) 25.06.2015 (33) United States of America
(31) 201313834230 201361770548 P (32) 15.03.2013 28.02.2013	(51) G02B 6/44 H01B 9/02 H01B 1/24 C08K 3/04 H01B 7/36 G01R 31/12 H01B 9/00 C08K 3/014 C08K 3/016 C08K 5/00	(51) G02B 21/26 G02B 21/36 (11) EP3230785 (21) EP15817582.8 (47) 09.02.2022 (87) JP2015006083 16.06.2016 (22) 08.12.2015
(33) United States of America United States of America	(11) EP3715928 (21) EP20162931.8 (47) 09.02.2022 (22) 13.03.2020	(54) MICROSCOPE SYSTEM AND CONTROL METHOD THEREOF (73) Canon Kabushiki Kaisha (72) HASEGAWA, Masahide SAKAMOTO, Michiie HASHIGUCHI, Akinori ANDO, Masahiro MASUDA, Shinobu NAGATSUKA, Osamu SAKATA, Tsuguhide NISHIKAWA, Koichiro
(51) G02B 6/38 G02B 6/255 (11) EP3151046 (21) EP16199828.1 (47) 09.02.2022	(54) OPTICAL FIBER CONNECTOR, OPTICAL FIBER CONNECTOR ASSEMBLING METHOD, PIN CLAMP (73) FUJIKURA LTD. (72) TAKAHASHI, Shigeo TAKIZAWA, Kazuhiro	(31) 20150004699 (32) 29.03.2019 (33) Italy
(22) 14.01.2011 (54) OPTICAL FIBER CONNECTOR, OPTICAL FIBER CONNECTOR ASSEMBLING METHOD, PIN CLAMP (73) FUJIKURA LTD. (72) TAKAHASHI, Shigeo TAKIZAWA, Kazuhiro	(31) 201900004699 (32) 29.03.2019 (33) Italy	(51) G02B 21/26 G02B 21/16 G02B 21/26 G02B 27/58 (11) EP3677944 (21) EP19219713.5 (47) 09.02.2022 (22) 25.12.2019
(31) 2010006290 2010006292 2010006331 (32) 14.01.2010 14.01.2010 14.01.2010	(51) G02B 21/00 G02B 21/16 G02B 21/26 G02B 27/58 (11) EP3677944 (21) EP19219713.5 (47) 09.02.2022 (22) 25.12.2019	(51) G02B 21/33 G02B 21/34 B05D 5/04 G02B 27/00 (11) EP3673314 (21) EP18755164.3
(33) Japan Japan Japan	(54) OPTICAL IMAGING EQUIPMENT AND METHOD (73) Beijing Yapu Optical Instrument Techology Co., LTD.	(33) Japan
(51) G02B 6/38 G02B 6/44 (11) EP2783249		

(47) 09.02.2022	(73) National Institute of Advanced Industrial Science and Technology	(22) 27.12.2017
(87) EP2018071274 28.02.2019	(72) UETSUKA, Hisato	(54) LIGHT SOURCE APPARATUS AND IMAGE PROJECTION APPARATUS
(22) 06.08.2018	OOKAWA, Masahiro	(73) CANON KABUSHIKI KAISHA
(54) IMMERSION MICROSCOPY	YAO, Bing	(72) MAEDA, Yuuki
(73) Carl Zeiss Microscopy GmbH	(31) 2016241575	INOKO, Kazuhiro
(72) OHRT, Thomas	(32) 13.12.2016	(31) 2017226959
GÖGLER, Michael	(33) Japan	2016254570
KUES, Thorsten	(51) G03B 3/00	(32) 27.11.2017
(31) 102017119093	G03B 5/00	28.12.2016
(32) 21.08.2017	H04N 5/222	(33) Japan
(33) Germany	(11) EP3076235	Japan
(51) G02B 27/01	(21) EP16163688.1	(51) G03F 7/00
H04N 21/414	(47) 09.02.2022	G03F 7/075
G01C 21/36	(22) 04.04.2016	B82Y 10/00
(11) EP3742218	(54) LENS DRIVING DEVICE, CAMERA MODULE AND OPTICAL APPARATUS	B82Y 40/00
(21) EP20169999.8	(73) LG Innotek Co., Ltd.	(11) EP3807717
(47) 09.02.2022	(72) LEE, Jun Taek	(21) EP19728426.8
(22) 17.04.2020	PARK, Sang Ok	(47) 09.02.2022
(54) DISPLAY UNIT	MIN, Sang Jun	(87) EP2019064391
(73) YAZAKI CORPORATION	(31) 20150063612	19.12.2019
(72) NAKAJIMA, Harutoshi	20150047635	(22) 04.06.2019
(31) 2019095315	(32) 07.05.2015	(54) IMPRINTING COMPOSITION AND METHOD OF FORMING A PATTERNED LAYER USING THE SAME
(32) 21.05.2019	03.04.2015	(73) Koninklijke Philips N.V.
(33) Japan	(33) Korea (Republic)	(72) VERSCHUUREN, Marcus Antonius
(51) G02B 27/42	Korea (Republic)	(31) 18177613
B42D 25/328	(51) G03B 15/00	(32) 13.06.2018
G02B 3/00	H04N 5/232	(33) European Patent Office (EPO)
B42D 25/30	G06K 9/46	(51) G03F 7/039
G02B 3/08	(11) EP2232331	C08F 220/18
G02B 5/18	(21) EP08863889.5	C08L 33/10
G07D 7/00	(47) 09.02.2022	G03F 7/004
B42D 25/324	(87) EP2008067685	G03F 7/20
B42D 25/29	02.07.2009	(11) EP3605228
B42D 25/355	(22) 17.12.2008	(21) EP18775825.5
G03H 1/00	(54) DEVICE FOR HELPING THE CAPTURE OF IMAGES	(47) 09.02.2022
G07D 7/207	(73) InterDigital CE Patent Holdings	(87) JP2018006324
G07D 7/12	(72) GUILLOTTEL, Philippe	04.10.2018
G03H 1/22	LE MEUR, Olivier	(22) 21.02.2018
(11) EP3598204	CHEVET, Jean-Claude	(54) RADIATION SENSITIVE COMPOSITION AND RESIST PATTERN FORMING METHOD
(21) EP18768308.1	(31) 0760170	(73) JSR Corporation
(47) 09.02.2022	(32) 20.12.2007	(72) MARUYAMA Ken
(87) RU2018000156	(33) France	(31) 2017068051
20.09.2018	(51) G03B 17/56	(32) 30.03.2017
(22) 13.03.2018	G03B 3/10	(33) Japan
(54) MICRO-OPTICAL SYSTEM FOR FORMING VISUAL IMAGES WITH KINEMATIC MOVEMENT EFFECTS	G03B 5/00	(51) G03F 7/20
(73) Computer Holography Centre Ltd	(11) EP3837583	(11) EP3769157
(72) MELNIK, Dmitry Vladimirovich	(21) EP20781017.7	(21) EP19712709.5
DURLEVICH, Svyatoslav Radomirovich	(47) 09.02.2022	(47) 09.02.2022
GONCHARSKIY, Alexander	(87) EP2020077604	(87) EP2019056371
Vladimirovich	08.04.2021	26.09.2019
GONCHARSKIY, Anton Aleksandrovich	(22) 01.10.2020	(22) 14.03.2019
(31) 201700240	(54) CYLINDRICAL ACTUATOR SUBASSEMBLY WITH FLEXURE-BASED LINEAR GUIDANCE MECHANISM	(54) OPTICAL ARRANGEMENT FOR EUV LITHOGRAPHY
(32) 15.03.2017	(73) Actuator Solutions GmbH	(73) Carl Zeiss SMT GmbH
(33) Eurasian Patent Organization	(72) BOBIC, Neven	(72) GONCHAR, Anastasia
(51) G02F 1/29	SCHUMM, Tobias	(31) 102018204364
G02F 1/13	(31) 201900017843	(32) 22.03.2018
(11) EP3557319	(32) 03.10.2019	(33) Germany
(21) EP17879870.8	(33) Italy	(51) G03F 7/20
(47) 09.02.2022	(51) G03B 21/20	B41C 1/10
(87) JP20170444043	(11) EP3343289	(11) EP3721293
21.06.2018	(21) EP17210628.8	(21) EP18816029.5
(22) 07.12.2017	(47) 09.02.2022	(47) 09.02.2022
(54) OPTICAL BEAM DEFLECTION ELEMENT AND MODULE		

(87) EP2018083996 13.06.2019	(31) 2014072830 2013206791	(21) EP16181815.8 (47) 09.02.2022
(22) 07.12.2018	2013118324	(22) 29.07.2016
(54) METHOD FOR CHARACTERISING A RELIEF PRECURSOR FOR FORMING A RELIEF STRUCTURE	(32) 2013090443 31.03.2014 01.10.2013	(54) DRIVE DEVICE, ELECTRONIC WATCH, AND CONTROL METHOD OF DRIVE DEVICE
(73) Flint Group Germany GmbH	04.06.2013	(73) CASIO COMPUTER CO., LTD.
(72) KNAPP, Andrew LENNICK, Ruediger BICKERT, Timo MUEHLFEIT, Markus	(33) Japan Japan Japan Japan	(72) MINAKUCHI, Mototaka KITTA, Noriyuki
(31) 17206168		(31) 2015179218
(32) 08.12.2017		(32) 11.09.2015
(33) European Patent Office (EPO)	(51) G03G 15/08	(33) Japan
(51) G03F 7/42	G03G 21/16	(51) G04C 3/16
C11D 1/04	G03G 21/18	G04C 15/00
C11D 1/08	(11) EP3571551	H02P 21/18
C11D 1/10	(21) EP18852729.5	(11) EP3722891
C11D 1/40	(47) 09.02.2022	(21) EP19168876.1
C11D 1/42	(87) JP2018035971	(47) 09.02.2022
(11) EP3443418	03.10.2019	(22) 12.04.2019
(21) EP17782805.0	(22) 27.09.2018	(54) METHODS AND SYSTEM FOR DETERMINING AN ERROR AND FOR CORRECTING THE ANGULAR POSITION OF AN ENGINE WITH CONTINUOUS ROTATION
(47) 09.02.2022	(54) DEVELOPING CARTRIDGE	(73) The Swatch Group Research and Development Ltd
(87) US2017023301	(73) BROTHER KOGYO KABUSHIKI KAISHA	(72) HOOVER, David
19.10.2017	(72) WANG, Yuwen	(51) G04G 13/02
(22) 21.03.2017	OOKA, Kazuaki	(11) EP3081998
(54) AQUEOUS SOLUTION AND PROCESS FOR REMOVING SUBSTANCES FROM SUBSTRATES	HASHIMOTO, Junichi	(21) EP16165179.9
(73) Versum Materials US, LLC	KISHI, Isao	(47) 09.02.2022
(72) ACRA, Travis W. PETERS, Richard Dalton POLLARD, Kimberly Dona	(31) 2018067898	(22) 13.04.2016
(31) 201615096362	(32) 30.03.2018	(54) METHOD AND DEVICE FOR REMINDING BASED ON ALARM CLOCK
(32) 12.04.2016	(33) Japan	(73) Xiaomi Inc.
(33) United States of America	(51) G03G 21/00	(72) GAO, Yi
(51) G03G 15/02	G03G 9/097	LONG, Hai
G03G 15/20	(11) EP3499314	WANG, Hongqiang
(11) EP3358423	(21) EP18212180.6	(31) 201510181426
(21) EP18152961.1	(47) 09.02.2022	(32) 16.04.2015
(47) 09.02.2022	(22) 13.12.2018	(33) China
(22) 23.01.2018	(54) CARTRIDGE AND IMAGE FORMING APPARATUS	(51) G05B 11/42
(54) FIXING APPARATUS AND IMAGE FORMING APPARATUS	(73) CANON KABUSHIKI KAISHA	(11) EP3349074
(73) Konica Minolta, Inc.	(72) OKA, Takuya	(21) EP17196776.3
(72) FUKAYA, Mamoru HAYASE, Toru IKEDA, Hideaki MURAKAMI, Masanori	(72) IKAMI, Yasukazu MITSUI, Yoshihiro	(47) 09.02.2022
(31) 2017016593	(31) 2018204523	(22) 17.10.2017
(32) 01.02.2017	2017240747	(54) CONTROL DEVICE, CONTROL METHOD, AND CONTROL PROGRAM FOR TUNING AN AMOUNT OF OPERATION OF A DEVICE
(33) Japan	(32) 30.10.2018	(73) Omron Corporation
(51) G03G 15/08	15.12.2017	(72) YANO, Keisuke
(11) EP2813898	(33) Japan Japan	TANAKA, Hitoshi
(21) EP14165558.9	(51) G04B 3/08	TSUBATA, Hajime
(47) 09.02.2022	G04F 7/08	YAMADA, Takaaki
(22) 23.04.2014	G04F 8/08	HASUI, Ryosuke
(54) Magnetic permeability detector, developing device, image forming apparatus, and oscillation signal frequency calculation method therefor	(11) EP3519901	(31) 2017003833
(73) Ricoh Company, Ltd.	(21) EP17755412.8	(32) 13.01.2017
(72) Hirota, Tetsuro Hosokawa, Hiroshi Yamane, Masayuki Kato, Shunji Nishizaki, Shingo Watanabe, Masahiro	(47) 09.02.2022	(33) Japan
	(87) DE2017100615	(51) G05B 15/02
	01.02.2018	H04N 21/41
	(22) 24.07.2017	H04N 21/436
	(54) CHRONOGRAPH AND METHOD FOR OPERATING A CHRONOGRAPH	H04N 21/478
	(73) Porsche Lizenz- und Handelsgesellschaft mbH & Co. KG	G06F 3/0484
	(72) TRAGATSCHNIG, Jörg SCHWAMKRUG, Christian	(11) EP2823647
	(31) 102016113744	(21) EP12870792.4
	(32) 26.07.2016	(47) 09.02.2022
	(33) Germany	
	(51) G04C 3/14	
	(11) EP3141967	

(87) KR2012005103 12.09.2013	UEYAMA, Yuki KAWANOUE, Shinsuke	(33) Japan
(22) 28.06.2012	(31) 2018044474	(51) G05B 23/02
(54) DEVICE, METHOD AND TIMELINE USER INTERFACE FOR CONTROLLING HOME DEVICES	(32) 12.03.2018 (33) Japan	F03D 1/00
(73) LG Electronics Inc.	(51) G05B 19/05	(11) EP2710438
(72) PARK, Hyorim KIM, Jihwan	(11) EP3454144 (21) EP18156422.0 (47) 09.02.2022	(21) EP12733516.4 (47) 09.02.2022
(31) 20120039730 201261606469 P	(22) 13.02.2018 (54) CONTROL DEVICE AND CONTROL METHOD	(87) GB2012051154 29.11.2012
(32) 17.04.2012 04.03.2012	(73) OMRON CORPORATION	(22) 21.05.2012
(33) Korea (Republic) United States of America	(72) YAMAMOTO, Eiji SHIMAMURA, Junji NAKANO, Masahiko	(54) DETERMINING DAMAGE AND REMAINING USEFUL LIFE OF ROTATING MACHINERY INCLUDING DRIVE TRAINS, GEARBOXES, AND GENERATORS
(51) G05B 19/042	(31) 2017174922	(73) Insight Analytics Solutions Holdings Limited
(11) EP3534225	(32) 12.09.2017	(72) POON, Andy
(21) EP18159717.0	(33) Japan	COULTATE, John Karl MA, Xiaojin
(47) 09.02.2022	(51) G05B 19/404	GOLYSHEVA, Evgenia
(22) 02.03.2018	B23B 13/12 B23Q 1/76	(31) 201110360 201110003 201108476
(54) MODULE FOR INDUSTRIAL PROCESS AUTOMATION AND METHOD FOR OPERATING AND PROJECT DESIGN	(11) EP3611584 (21) EP19157423.5 (47) 09.02.2022	(32) 20.06.2011 14.06.2011 20.05.2011
(73) Siemens Aktiengesellschaft	(22) 15.02.2019 (54) METHOD FOR OPERATING A LATHE WITH A STEADY REST	(33) United Kingdom United Kingdom United Kingdom
(72) Röhle, Holger	(73) WEILER Werkzeugmaschinen GmbH (72) Popp, Matthias Kohl, Günter	(51) G05D 1/00 G01C 21/34 G05D 1/02 G01C 21/20
(51) G05B 19/042	(31) 102018119889	(11) EP3435189
(11) EP3534226	(32) 16.08.2018	(21) EP18189110.2 (47) 09.02.2022
(21) EP18159820.2	(33) Germany	(22) 10.04.2012
(47) 09.02.2022	(51) G05B 19/406	(54) APPARATUS FOR EFFICIENT SCHEDULING FOR MULTIPLE AUTOMATED NON-HOLONOMIC VEHICLES USING A COORDINATED PATH PLANNER
(22) 02.03.2018	(11) EP3602215 (21) EP18723721.9 (47) 09.02.2022	(73) Crown Equipment Corporation (72) THOMSON, Jacob Jay (31) 201161474030 P (32) 11.04.2011
(54) MODULAR CONTROL SYSTEM	(87) EP2018060283 01.11.2018	(33) United States of America
(73) Emm! solutions GmbH	(22) 23.04.2018 (54) METHOD AND DEVICE FOR AUTOMATIC GENERATION A MANAGEMENT PROGRAM EXCLUSIVELY FOR DIAGNOSTIC PURPOSES FOR A PRODUCTION OR MACHINE TOOL	(51) G05D 1/02 (11) EP3721310 (21) EP18822015.6 (47) 09.02.2022
(72) Müller, Armin	(73) Siemens Aktiengesellschaft (72) SCHÄFFERS, Elmar HASCHKA, Markus Stephan SCHÜR, Torsten	(87) EP2018083817 13.06.2019
(51) G05B 19/042	(31) 17167862 (32) 25.04.2017	(22) 06.12.2018
G05B 19/05	(33) European Patent Office (EPO)	(54) METHOD FOR CONTROLLING THE DRIVING BEHAVIOR OF A LEADING VEHICLE OF A VEHICLE TRAIN
G07C 9/00	(51) G05B 19/406	(73) KNORR-BREMSE Systeme für Nutzfahrzeuge GmbH
(11) EP3719593	(11) EP3731046 (21) EP20170146.3 (47) 09.02.2022	(72) HECKER, Falk MUSTAPHA, Adnan GÜCKER, Ulrich
(21) EP18901050.7	(22) 17.04.2020 (54) PRESS MACHINE AND METHOD OF SETTING OPERATION FOR PRESS MACHINE	(31) 102017011346 (32) 08.12.2017
(47) 09.02.2022	(73) AIDA ENGINEERING, LTD. (72) HARADA, Yasuhiro BANDO, Shintaro	(33) Germany
(87) CN2018120591 25.07.2019	(31) 2019085139 (32) 26.04.2019	(51) G05D 1/02 (11) EP3620882 (21) EP19194278.8
(22) 12.12.2018		
(54) EQUIPMENT UNIT STATE CONTROLLING METHOD AND DEVICE, AND EQUIPMENT UNIT		
(73) Gree Electric Appliances, Inc. of Zhuhai		
(72) ZHOU, Baolin LIN, Guiqing TANG, Zhengqing CHEN, Wanxing WU, Baolong DONG, Yuhong		
(31) 201810059370		
(32) 22.01.2018		
(33) China		
(51) G05B 19/042		
G05B 23/02		
G05B 19/418		
G05B 19/05		
(11) EP3540532		
(21) EP18211275.5		
(47) 09.02.2022		
(22) 10.12.2018		
(54) CONTROL SYSTEM AND CONTROL METHOD		
(73) OMRON Corporation		
(72) ABE, Yutaka MIYAMOTO, Kota		

(47) 09.02.2022	G05B 13/04	(54) DISPLAY OF A VISUAL EVENT
(22) 29.08.2019	B64C 27/08	NOTIFICATION
(54) AUTONOMOUS TRAVEL CART	B64C 39/02	(73) Nokia Technologies Oy
(73) Kabushiki Kaisha Toyota Jidoshokki	(11) EP3529683	(72) NGUYEN, David
(72) KASSAI, Taro	(21) EP17863172.7	DESJARDINS, Audrey
NAKASHIMA, Takashi	(47) 09.02.2022	(31) 201361879063 P
(31) 2018168024	(87) AU2017051129	(32) 17.09.2013
(32) 07.09.2018	26.04.2018	(33) United States of America
(33) Japan	(22) 18.10.2017	<hr/>
(51) G05D 1/02	(54) THRUST VECTORED MULTICOPTERS	(51) G06F 1/16
A01D 34/00	(73) Deakin University	H04M 1/02
(11) EP3589111	(72) KOUZANI, Abbas Zahedi	(11) EP3594777
(21) EP18761934.1	NORTON, Michael John	(21) EP19174454.9
(47) 09.02.2022	KHOO, Sui Yang	(47) 09.02.2022
(87) SE2018050051	(31) 2016904231	(22) 14.05.2019
07.09.2018	(32) 18.10.2016	(54) FUNCTIONAL COMPONENT, METHOD
(22) 24.01.2018	(33) Australia	FOR CONTROLLING FUNCTIONAL
(54) IMPROVED REDUCTION OF WHEEL	(51) G05D 1/12	COMPONENT, AND TERMINAL
TRACKS FOR ROBOTIC LAWNMOWER	G05D 1/00	(73) Beijing Xiaomi Mobile Software Co., Ltd.
(73) Husqvarna AB	G05D 1/02	(72) LUO, Tianbiao
(72) LILJEDAHL, Marcus	B64C 39/02	(31) 201810751542
(31) 1750226	(11) EP3368957	(32) 10.07.2018
(32) 02.03.2017	(21) EP16858592.5	(33) China
(33) Sweden	(47) 09.02.2022	<hr/>
(51) G05D 1/02	(87) CN2016074830	(51) G06F 1/24
B60P 1/00	04.05.2017	H01S 5/068
B62D 15/02	(22) 29.02.2016	G06F 1/16
G06Q 10/08	(54) SYSTEMS AND METHODS FOR UAV	H04M 1/02
(11) EP3139236	PATH PLANNING AND CONTROL	(11) EP3584672
(21) EP16181450.4	(73) SZ DJI Technology Co., Ltd.	(21) EP19177180.7
(47) 09.02.2022	(72) LIU, Ang	(47) 09.02.2022
(22) 27.07.2016	HU, Xiao	(22) 29.05.2019
(54) METHOD FOR FORWARDING	TANG, Ketan	(54) SYSTEMS FOR CONTROLLING
AT LEAST ONE LOAD FROM A	ZHANG, Litian	LASER PROJECTOR AND MOBILE
TRANSFER VEHICLE TO A TAKEOVER	(31) PCT/CN2015/093459	TERMINALS
VEHICLE AND TRANSFER VEHICLE	(32) 30.10.2015	(73) GUANGDONG OPPO MOBILE
(73) Deutsche Post AG	(33) World Intellectual Property Office (WIPO)	TELECOMMUNICATIONS CORP., LTD.
(72) Wiechers, Dr. Ralph	(51) G05D 23/19	(72) CHEN, Biao
(31) 102015114772	G05B 5/01	BAI, Jian
(32) 03.09.2015	G05B 11/36	LYU, Xiangnan
(33) Germany	G05B 11/42	(31) 201810539345
(51) G05D 1/10	(11) EP3591493	201810539478
G05D 1/02	(21) EP17898548.7	(32) 30.05.2018
(11) EP3518068	(47) 09.02.2022	30.05.2018
(21) EP18153409.0	(87) JP2017007871	(33) China
(47) 09.02.2022	07.09.2018	China
(22) 25.01.2018	(22) 28.02.2017	<hr/>
(54) TRAJECTORY CONTROL FOR A	(54) TEMPERATURE CONTROL DEVICE,	(51) G06F 1/26
SWARM OF VEHICLES	TEMPERATURE CONTROL METHOD,	G06F 1/28
(73) Nokia Technologies Oy	COMPUTER PROGRAM, AND	G06F 1/30
(72) SUVITIE, Arto	STORAGE MEDIUM	H02J 7/34
(51) G05D 1/10	(73) Pioneer Corporation	H02J 9/06
G05D 1/06	Nikkiso Company Limited	(11) EP3540562
(11) EP3109724	(72) TATEISHI, Kiyoshi	(21) EP18211460.3
(21) EP15382337.2	ADACHI, Genki	(47) 09.02.2022
(47) 09.02.2022	KONDO, Tadashi	(22) 11.12.2018
(22) 26.06.2015	MURAKAMI, Tomoya	(54) ARITHMETIC UNIT AND CONTROL
(54) METHOD AND SYSTEM OF	AGATA, Akari	APPARATUS
CONTROLLING A FLIGHT OF	(51) G06F 1/16	(73) OMRON Corporation
AN AIRCRAFT SUBJECTED TO	G06F 3/0487	(72) UEDA, Hiroaki
A REQUIRED TIME OF ARRIVAL	G06F 3/0346	(31) 2018044522
CONSTRAINT	G06F 3/01	(32) 12.03.2018
(73) The Boeing Company	(11) EP3047364	(33) Japan
(72) Garrido Lopez, David	(21) EP14846714.5	<hr/>
(51) G05D 1/10	(47) 09.02.2022	(51) G06F 1/32
G05D 1/08	(87) US2014055829	G11C 16/30
B64C 27/52	26.03.2015	G06F 1/26
	(22) 16.09.2014	G06F 1/30
		G11C 5/14
		(11) EP3563214
		(21) EP17888932.5
		(47) 09.02.2022

(87) US2017063531 05.07.2018	(33) China	(33) Israel
(22) 28.11.2017	(51) G06F 3/01	(51) G06F 3/0346
(54) ENABLING FUNCTIONS OF A MEMORY DEVICE IN A PLURALITY OF PHASES	G06F 3/0488	G06F 3/01
(73) Intel Corporation	G06F 21/32	(11) EP2902884
(72) ZUPANC, Zeljko	G06K 9/00	(21) EP14197587.0
MOCANU, Adrian	H04L 29/06	(47) 09.02.2022
MORNING-SMITH, Andrew	H04M 1/67	(22) 12.12.2014
(31) 201615391037	(11) EP3011483	(54) Method, device, and system for recognizing gesture based on multi- terminal collaboration
(32) 27.12.2016	(21) EP14814408.2	(73) Huawei Technologies Co., Ltd.
(33) United States of America	(47) 09.02.2022	(72) Lian, Shiguo
(51) G06F 3/01	(87) IB2014062293	Song, Xingguang
G06F 3/042	24.12.2014	Hu, Wei
G06F 3/0481	(22) 17.06.2014	(31) 201310746679
G06F 3/0484	(54) SYSTEM, DEVICE, AND METHOD OF DETECTING IDENTITY OF A USER OF A MOBILE ELECTRONIC DEVICE	(32) 30.12.2013
G06F 3/0488	(73) BIOCATCH LTD.	(33) China
G06F 3/03	(72) TURGEMAN, Avi	(51) G06F 3/0346
(11) EP3109737	(31) 201313922271	G06F 3/046
(21) EP16192521.9	(32) 20.06.2013	A63F 13/20
(47) 09.02.2022	(33) United States of America	A63F 9/04
(22) 06.10.2016	(51) G06F 3/01	G06F 3/0487
(54) DESIGN SYSTEM FOR ASSISTANCE IN DESIGNING THE LAYOUT OF A KITCHEN	G09G 3/00	G06F 3/0484
(73) NEXT-TECH SPRL	G06F 3/0488	A63F 3/00
(72) IOANNATOS, Thomas	G06F 3/16	G06F 3/041
IOANNATOS, Pierre	G09B 21/00	A63F 13/235
(31) 201505628	A61K 33/22	(11) EP2941683
(32) 06.10.2015	A61K 9/00	(21) EP13827030.1
(33) Belgium	A61P 19/02	(47) 09.02.2022
(51) G06F 3/01	(11) EP3423920	(87) FR2013053286
G06F 3/042	(21) EP17733558.5	10.07.2014
G06F 3/0481	(47) 09.02.2022	(22) 30.12.2013
G06F 3/0484	(87) TR2017000033	(54) CONTROL OF A HOST STATION THROUGH MOVEMENT OF A MOVING DEVICE
G06F 3/0488	05.10.2017	(73) Starbreeze Paris
G06F 3/03	(22) 24.02.2017	(72) DUTEIL, Christophe
(11) EP3547085	(54) THERAPEUTIC MIXTURES FOR TREATING OSTEOARTHRITIS COMPRISING NANO HEXAGONAL BORON NITRIDE COMPOSITION	LEFÈVRE, Valentin
(21) EP19175591.7	(73) Bortek Bor Teknolojileri Ve Mekatronik Sanayi Ticaret Anonim Sirketi	(31) 1350079
(47) 09.02.2022	(72) GONCU, Yapincak	(32) 04.01.2013
(22) 06.10.2016	AY, Nuran	(33) France
(54) DESIGN SYSTEM FOR ASSISTANCE IN DESIGNING THE LAYOUT OF A KITCHEN	AY, Suleyman	(51) G06F 3/0354
(73) NEXT-TECH SPRL	(31) 201606270	G06F 3/041
(72) Ioannatos, Pierre	201602710	G06F 3/046
Ioannatos, Thomas	(32) 12.05.2016	(11) EP3792735
(31) 201505628	02.03.2016	(21) EP19197601.8
(32) 06.10.2015	(33) Turkey	(47) 09.02.2022
(33) Belgium	Turkey	(22) 16.09.2019
(51) G06F 3/01	(51) G06F 3/033	(54) STYLUS SPEED
G06F 3/0484	G06F 3/01	(73) Microsoft Technology Licensing, LLC
G06K 9/00	G06F 3/0484	(72) BAR-NESS, Assaf
(11) EP3367228	G06F 3/0481	DEKEL, Shoham
(21) EP16869907.2	(11) EP3398039	(51) G06F 3/038
(47) 09.02.2022	(21) EP16881410.1	G06F 3/0488
(87) CN2016107014	(47) 09.02.2022	G06F 3/14
08.06.2017	(87) IL2016051390	G06F 3/041
(22) 24.11.2016	06.07.2017	G06F 3/0354
(54) METHOD AND APPARATUS FOR DISPLAYING DISPLAY OBJECT ACCORDING TO REAL-TIME INFORMATION	(22) 28.12.2016	(11) EP2975829
(73) Advanced New Technologies Co., Ltd.	(54) MANAGING DISPLAYED INFORMATION ACCORDING TO USER GAZE DIRECTIONS	(21) EP14765255.6
(72) ZENG, Yuewei	(73) Elbit Systems Ltd.	(47) 09.02.2022
(31) 201510884339	(72) NOCHAM, Itamar	(87) JP2014055485
(32) 04.12.2015	SHAHAL, Avner	18.09.2014
	(31) 24342215	(22) 04.03.2014
	(32) 30.12.2015	(54) DISPLAY APPARATUS
		(73) Clarion Co., Ltd.
		(72) MATSUMOTO, Yusuke
		NARA, Norikazu
		SANO, Katsumi

MATSUYUKI, Katsuya	(33) Korea (Republic)	(32) 10.08.2018
(31) 2013050791	(51) G06F 3/041	(33) Korea (Republic)
(32) 13.03.2013	G06F 3/044	(51) G06F 3/041
(33) Japan	(11) EP3507682	G06F 3/044
(51) G06F 3/041	(21) EP17784509.6	H01L 27/32
(11) EP3043243	(47) 09.02.2022	(11) EP3396503
(21) EP14843015.0	(87) US2017054809	(21) EP18169318.5
(47) 09.02.2022	19.04.2018	(47) 09.02.2022
(87) JP2014069383	(22) 03.10.2017	(22) 25.04.2018
12.03.2015	(54) GROUND REFERENCE FLOATING IN A TOUCH-SENSITIVE DISPLAY	(54) DISPLAY DEVICE AND METHOD OF MANUFACTURING THE SAME
(22) 23.07.2014	(73) Microsoft Technology Licensing, LLC	(73) LG Display Co., Ltd.
(54) SENSOR DEVICE, DISPLAY DEVICE, AND INPUT DEVICE	(72) TANG, Yingying	(72) CHO, Woo-Chan
(73) Sony Group Corporation	VARLAMOEV, Denis	LEE, Young-Wook
(72) TANAKA, Takayuki	WESTHUES, Jonathan	(31) 20170054218
SHINKAI, Shogo	QIAO, Tianzhu	(32) 27.04.2017
IIDA, Fumihiko	(31) 201615289852	(33) Korea (Republic)
ABE, Yasuyuki	(32) 10.10.2016	(51) G06F 3/044
HASEGAWA, Hayato	(33) United States of America	(11) EP3410278
NISHIMURA, Taizo	(51) G06F 3/041	(21) EP17210116.4
MIZUNO, Hiroshi	G06F 3/044	(47) 09.02.2022
(31) 2013182509	(11) EP3598283	(22) 22.12.2017
(32) 03.09.2013	(21) EP19187390.0	(54) TOUCH DISPLAY DEVICE AND TOUCHSCREEN PANEL
(33) Japan	(47) 09.02.2022	(73) LG Display Co., Ltd.
(51) G06F 3/041	(22) 19.07.2019	(72) HWANG, KwangJo
G06F 3/01	(54) TOUCH DISPLAY PANEL, TOUCH DISPLAY DEVICE, AND DRIVING METHOD THEREOF	LEE, Yangsik
G06F 3/044	(73) LG Display Co., Ltd.	LEE, JaeGyun
(11) EP3401768	(72) KIM, Jaeseung	LEE, DeukSu
(21) EP18180405.5	KIM, Sangkyu	(31) 20170068354
(47) 09.02.2022	KIM, Taeyun	(32) 01.06.2017
(22) 05.06.2015	LEE, Yangsik	(33) Korea (Republic)
(54) TOUCH PANEL	LEE, HwiDeuk	(51) G06F 3/048
(73) LG Display Co., Ltd.	(31) 20180084545	G06F 3/0482
(72) KIM, Ki Seon	(32) 20.07.2018	G06F 3/0488
CHO, Sung Yong	(33) Korea (Republic)	B60K 35/00
SON, Ji Eun	(51) G06F 3/041	B60K 37/06
KIM, Eun Jung	G06F 3/044	(11) EP3097468
(31) 20140111849	(11) EP3309662	(21) EP14825280.2
(32) 26.08.2014	(21) EP17196311.9	(47) 09.02.2022
(33) Korea (Republic)	(47) 09.02.2022	(87) EP2014077791
(51) G06F 3/041	(22) 13.10.2017	30.07.2015
G06F 3/044	(54) TOUCH DISPLAY DEVICE, METHOD FOR DRIVING THE SAME, DRIVING CIRCUIT, DATA-DRIVING CIRCUIT, AND GATE-DRIVING CIRCUIT	(22) 15.12.2014
(11) EP3200052	(73) LG Display Co., Ltd.	(54) USER INTERFACE AND METHOD FOR ADAPTING A VIEW OF A DISPLAY UNIT
(21) EP16181393.6	(72) KANG, HyeongWon	(73) Volkswagen Aktiengesellschaft
(47) 09.02.2022	JO, Youngwoo	(72) WILD, Holger
(22) 27.07.2016	LEE, HongJu	(31) 102014200993
(54) DRIVING CIRCUIT, TOUCH DISPLAY DEVICE, AND METHOD OF DRIVING THE TOUCH DISPLAY DEVICE	(31) 20160133165	(32) 21.01.2014
(73) LG Display Co., Ltd.	(32) 13.10.2016	(33) Germany
(72) KIM, SungChul	(33) Korea (Republic)	(51) G06F 3/0481
KIM, JuHan	(51) G06F 3/041	G06F 3/0486
(31) 20160011723	G06F 3/044	H04W 4/02
(32) 29.01.2016	G06K 9/00	H04W 4/80
(33) Korea (Republic)	(11) EP3608763	G06F 3/0488
(51) G06F 3/041	(21) EP19164406.1	(11) EP3657313
G06F 3/044	(47) 09.02.2022	(21) EP19207960.6
G06F 3/044	(22) 21.03.2019	(47) 09.02.2022
(11) EP3336667	(54) TOUCH-FINGERPRINT COMPLEX SENSOR AND ELECTRONIC APPARATUS INCLUDING THE SAME	(22) 08.11.2019
(21) EP17207757.0	(73) Samsung Electronics Co., Ltd.	(54) COMMUNICATION METHOD BETWEEN A PORTABLE DEVICE COMPRISING A TOUCH-SENSITIVE SURFACE, AND A PERIPHERAL DEVICE SELECTED BY DIRECTIVE SLIDING ON THE TOUCH-SENSITIVE SURFACE
(47) 09.02.2022	(72) HONG, Seogwoo	(73) SAGEMCOM BROADBAND SAS
(22) 15.12.2017	KIM, Jinmyoung	(72) BENAMROUCHE, Farid
(54) DISPLAY DEVICE WITH AN INTEGRATED TOUCH SENSOR	(31) 20180093991	
(73) LG Display Co., Ltd.		
(72) SONG, Tae-Joon		
LEE, Kyu-Hwang		
(31) 20160172664		
(32) 16.12.2016		

(31) 1871612	KAMAT, Mallika	(22) 25.04.2017
(32) 20.11.2018	(31) 3344CH2015	(54) HYBRID BLOCK-BASED PROCESSOR AND CUSTOM FUNCTION BLOCKS
(33) France	201615187480	(73) Microsoft Technology Licensing, LLC
(51) G06F 3/0488	201615187452	(72) SMITH, Aaron L.
G06F 3/0482	(32) 30.06.2015	GRAY, Jan S.
G06F 3/0484	20.06.2016	(31) 201615224624
G06F 3/0486	20.06.2016	201662328976 P
G06F 1/16	(33) India	(32) 31.07.2016
A61B 5/024	United States of America	28.04.2016
A61B 5/00	United States of America	(33) United States of America
A61B 5/11	(51) G06F 8/61	United States of America
G08B 21/04	G06F 21/57	(51) G06F 9/4401
A61B 5/02	H04W 12/12	(11) EP2761465
A61B 5/05	H04W 4/50	(21) EP11873192.6
A61B 5/24	H04W 4/60	(47) 09.02.2022
(11) EP3654166	H04L 29/06	(87) US2011054407
(21) EP19200845.6	H04W 12/30	04.04.2013
(47) 09.02.2022	(11) EP3105677	(22) 30.09.2011
(22) 11.11.2014	(21) EP15708939.2	(54) AUTONOMOUS INITIALIZATION OF NON-VOLATILE RANDOM ACCESS MEMORY IN A COMPUTER SYSTEM
(54) METHOD AND APPARATUS FOR PROVIDING APPLICATION INFORMATION	(47) 09.02.2022	(73) Intel Corporation
(73) Samsung Electronics Co., Ltd.	(87) US2015015292	(72) KUMAR, Mohan
(72) Baek, Kun-Woo	20.08.2015	NACHIMUTHU, Murugasamy, K.
Lee, Kyung-Hee	(22) 10.02.2015	ZIAKAS, Dimitrios
Park, Ken-Hyung	(54) SYSTEMS AND METHODS FOR INFORMING USERS ABOUT APPLICATIONS AVAILABLE FOR DOWNLOAD	(51) G06F 9/4401
Heo, Chang-Ryong	(73) NortonLifeLock Inc.	B60W 50/04
Cho, Chi-Hyun	(72) SAVANT, Anubhav	(11) EP3167360
(31) 20130136773	(31) 201414178279	(21) EP15745630.2
(32) 12.11.2013	(32) 12.02.2014	(47) 09.02.2022
(33) Korea (Republic)	(33) United States of America	(87) US2015039750
(51) G06F 3/06	(51) G06F 8/654	14.01.2016
G06F 12/06	G06F 1/16	(22) 09.07.2015
G06F 13/16	(11) EP3164796	(54) OPERATING SYSTEM STARTUP ACCELERATION
G06F 13/42	(21) EP14896494.3	(73) Harman International Industries, Incorporated
(11) EP3614253	(47) 09.02.2022	(72) VARGHESE, Eugene
(21) EP18917582.1	(87) US2014045210	CHAKRABORTY, Pranjal
(47) 09.02.2022	07.01.2016	RAMAN, Prakash
(87) CN2018093919	(22) 02.07.2014	(31) 3428CH2014
02.01.2020	(54) FIRMWARE UPDATE	(32) 10.07.2014
(22) 30.06.2018	(73) Hewlett-Packard Development Company, L.P.	(33) India
(54) DATA PROCESSING METHOD AND STORAGE SYSTEM	(72) KULKARNI, Anand	(51) G06F 9/448
(73) Huawei Technologies Co., Ltd.	PARK, Stanley Hyojun	(11) EP3532924
(72) Li, Junying	(51) G06F 9/38	(21) EP17797757.6
ZHOU, Guanfeng	(11) EP3384378	(47) 09.02.2022
GISSIN, Victor	(21) EP16871213.1	(87) IB2017056696
LIN, Jiashu	(47) 09.02.2022	03.05.2018
(51) G06F 8/61	(87) US2016054072	(22) 27.10.2017
G06F 8/65	08.06.2017	(54) SYSTEMS AND METHODS FOR IMPLEMENTING DETERMINISTIC FINITE AUTOMATA (DFAS) VIA A BLOCKCHAIN
G06F 9/455	(22) 28.09.2016	(73) Nchain Holdings Limited
G06F 9/50	(54) INSTRUCTION AND LOGIC FOR IN-ORDER HANDLING IN AN OUT-OF-ORDER PROCESSOR	(72) JIMENEZ-DELGADO, Pedro
H04L 29/08	(73) Intel Corporation	WRIGHT, Craig Steven
(11) EP3317762	(72) MATHEW, Jacob	(31) 201618235
(21) EP16739341.2	(31) 201514953644	201618234
(47) 09.02.2022	(32) 30.11.2015	201618233
(87) US2016040205	(33) United States of America	(32) 28.10.2016
05.01.2017	(51) G06F 9/38	28.10.2016
(22) 29.06.2016	G06F 15/78	28.10.2016
(54) METHODS AND APPARATUS FOR SOFTWARE LIFECYCLE MANAGEMENT OF A VIRTUAL COMPUTING ENVIRONMENT	G06F 9/30	(33) United Kingdom
(73) VMWare, Inc.	(11) EP3449358	United Kingdom
(72) NEWELL, Don	(21) EP17721017.6	United Kingdom
SEN, Rohan	(47) 09.02.2022	(51) G06F 9/451
MUKHOPADHYAY, Sudipto	(87) US2017029227	
PANDA, Atanu	02.11.2017	

(11) EP3005088	G06F 11/34	Lipstone, Laurence
(21) EP14734657.1	(11) EP3529700	Koller, Jeffrey G.
(47) 09.02.2022	(21) EP17832742.5	Fullagar, David
(87) US2014040100	(47) 09.02.2022	Yevmenkin, Maksim
11.12.2014	(87) EP2017081693	Crowder, William
(22) 30.05.2014	26.07.2018	(31) 201161570486 P
(54) LAUNCH SURFACE CONTROL	(22) 06.12.2017	201161570448 P
(73) Microsoft Technology Licensing, LLC	(54) METHOD FOR OPERATING A	(32) 14.12.2011
(72) GARCIA, Jonathan	MONITORING ENTITY	14.12.2011
SMITH, Robert	(73) NEC Corporation	(33) United States of America
WYMAN, Joseph	(72) KLAEDTKE, Felix	United States of America
BIELICH, Matt	(31) 17152709	(51) G06F 15/167
(31) 201313907969	(32) 23.01.2017	H04L 29/08
(32) 03.06.2013	(33) European Patent Office (EPO)	H04L 12/24
(33) United States of America	(51) G06F 12/1009	H04L 29/06
(51) G06F 9/50	(11) EP2847668	(11) EP3249546
G06F 1/329	(21) EP12876530.2	(21) EP17179713.7
H04M 1/72427	(47) 09.02.2022	(47) 09.02.2022
H04M 1/72454	(87) US2012037164	(22) 14.12.2012
(11) EP3477472	14.11.2013	(54) CONTENT DELIVERY NETWORK
(21) EP18200361.6	(22) 09.05.2012	(73) Level 3 Communications, LLC
(47) 09.02.2022	(54) EXECUTION USING MULTIPLE PAGE	(72) Yevmenkin, Maksim
(22) 15.10.2018	TABLES	Fullagar, David
(54) METHOD FOR RESOURCE	(73) Intel Corporation	Lipstone, Laurence
ALLOCATION AND TERMINAL DEVICE	(72) MACPHERSON, Mike B.	Koller, Jeffrey G.
(73) GUANGDONG OPPO MOBILE	(51) G06F 13/14	Crowder, William
TELECOMMUNICATIONS CORP., LTD.	G06F 13/16	Newton, Christopher
(72) CHEN, Yan	G06F 13/38	(31) 201161570486 P
CHENG, Jie	G06F 3/06	201161570448 P
(31) 201711047929	(11) EP2981900	(32) 14.12.2011
(32) 31.10.2017	(21) EP13881361.3	14.12.2011
(33) China	(47) 09.02.2022	(33) United States of America
(51) G06F 11/28	(87) US2013034796	United States of America
(11) EP3244300	09.10.2014	(51) G06F 16/245
(21) EP16183497.3	(22) 01.04.2013	G06F 16/27
(47) 09.02.2022	(54) EXTERNAL MEMORY CONTROLLER	(11) EP3811230
(22) 10.08.2016	(73) Hewlett Packard Enterprise Development	(21) EP19718530.9
(54) METHOD AND TOOL FOR	LP	(47) 09.02.2022
GENERATING A PROGRAM CODE	(72) GOSTIN, Gary	(87) US2019025650
CONFIGURED FOR PERFORMING	MORRIS, Dale C.	02.01.2020
A CONTROL FLOW CHECK OF	LESARTRE, Gregg B.	(22) 03.04.2019
ANOTHER PROGRAM CODE	HERRELL, Russ W.	(54) AUTOMATIC QUERY OFFLOADING TO
INCLUDING INDIRECT BRANCHING	(51) G06F 15/16	A STANDBY DATABASE
INSTRUCTIONS	H03M 7/30	(73) Oracle International Corporation
(73) STMicroelectronics (Rousset) SAS	(11) EP3000050	(72) GIRKAR, Mahesh
(72) ORLANDO, William	(21) EP14801505.0	SONAWANE, Sachin
TERRAS, Lydie	(47) 09.02.2022	(31) 201816016978
(31) 1651507	(87) US2014039209	(32) 25.06.2018
(32) 24.02.2016	27.11.2014	(33) United States of America
(33) France	(22) 22.05.2014	(51) G06F 16/2452
(51) G06F 11/30	(54) EFFICIENT DATA COMPRESSION AND	G06F 16/835
G06F 11/07	ANALYSIS AS A SERVICE	(11) EP3028183
(11) EP3480700	(73) Amazon Technologies, Inc.	(21) EP14750956.6
(21) EP17819920.4	(72) GUPTA, Anurag Windlass	(47) 09.02.2022
(47) 09.02.2022	(31) 201313900350	(87) US2014049290
(87) JP2017022453	(32) 22.05.2013	05.02.2015
04.01.2018	(33) United States of America	(22) 31.07.2014
(22) 19.06.2017	(51) G06F 15/167	(54) A GENERIC SQL ENHANCEMENT TO
(54) ELECTRONIC CONTROL DEVICE	H04L 29/08	QUERY ANY SEMI-STRUCTURED
(73) Hitachi Astemo, Ltd.	H04L 12/24	DATA AND TECHNIQUES TO
(72) OHNO, Atsuhiko	H04L 29/06	EFFICIENTLY SUPPORT SUCH
NEMOTO, Mamoru	(11) EP3249545	ENHANCEMENTS
MATSUBARA, Masahiro	(21) EP17179711.1	(73) Oracle International Corporation
(31) 2016130393	(47) 09.02.2022	(72) HAMMERSCHMIDT, Beda
(32) 30.06.2016	(22) 14.12.2012	LIU, Zhen Hua
(33) Japan	(54) CONTENT DELIVERY NETWORK	(31) 201414337189
(51) G06F 11/30	(73) Level 3 Communications, LLC	201361860848 P
G06F 11/07	(72) Newton, Christopher	(32) 21.07.2014

31.07.2013	(72) DRESSEL, Olaf	(54) DETECTING SCRIPT-BASED
(33) United States of America	DIETRICH, Frank	MALWARE CROSS REFERENCE TO
United States of America	(31) 102016116770	RELATED APPLICATIONS
(51) G06F 16/332	(32) 07.09.2016	(73) CrowdStrike, Inc.
G06F 3/16	(33) Germany	(72) IONESCU, Ion-Alexandru
G06F 40/274	(51) G06F 21/33	TANDA, Satoshi
(11) EP3360056	G06F 21/35	(31) 201816224678
(21) EP16781897.0	G06F 21/62	201762607870 P
(47) 09.02.2022	H04L 29/06	(32) 18.12.2018
(87) US2016052374	(11) EP3731119	19.12.2017
13.04.2017	(21) EP20175065.0	(33) United States of America
(22) 17.09.2016	(47) 09.02.2022	United States of America
(54) FACILITATING AWARENESS AND	(22) 20.02.2015	(51) G06F 21/57
CONVERSATION THROUGHPUT IN AN	(54) COMPUTER IMPLEMENTED METHOD	H04L 9/32
AUGMENTATIVE AND ALTERNATIVE	FOR CONTROLLING ACCESS	H04L 29/08
COMMUNICATION SYSTEM	(73) Bundesdruckerei GmbH	(11) EP3607733
(73) Microsoft Technology Licensing, LLC	(72) MORGNER, Frank	(21) EP19725897.3
(72) PARADISO, Ann	BASTIAN, Paul	(47) 09.02.2022
MORRIS, Meredith	(31) 102015202308	(87) CN2019078552
BEAVERS, Jay	(32) 10.02.2015	31.05.2019
FIANNACA, Alexander	(33) Germany	(22) 18.03.2019
KULKARNI, Harish	(51) G06F 21/41	(54) CONSENSUS SYSTEM DOWNTIME
CAMPBELL, Jon	H04L 29/06	RECOVERY
SHAH, Mira E.	G06F 21/31	(73) Advanced New Technologies Co., Ltd.
(31) 201514880061	G06F 21/32	(72) YANG, Dayi
(32) 09.10.2015	G06K 9/00	(51) G06F 21/79
(33) United States of America	H04L 9/32	(11) EP3460709
(51) G06F 16/9535	H04W 12/06	(21) EP17306273.8
G06F 16/248	H04W 88/02	(47) 09.02.2022
G06F 16/951	G06F 3/0488	(22) 26.09.2017
G06F 40/284	G06F 3/0481	(54) DEVICES AND METHODS FOR
G06F 40/289	(11) EP3770782	SECURED PROCESSORS
G06F 40/35	(21) EP20196476.4	(73) Secure-IC SAS
H04L 12/58	(47) 09.02.2022	(72) TIMBERT, Michaël
(11) EP3607470	(22) 09.09.2014	GUILLEY, Sylvain
(21) EP18720432.6	(54) DEVICE, METHOD, AND	FACON, Adrien
(47) 09.02.2022	GRAPHICAL USER INTERFACE FOR	(51) G06K 7/00
(87) US2018024691	MANIPULATING USER INTERFACES	(11) EP3475872
11.10.2018	BASED ON UNLOCK INPUTS	(21) EP16734233.6
(22) 28.03.2018	(73) Apple Inc.	(47) 09.02.2022
(54) CONVERSATION BOT DISCOVERY	(72) WHITNEY, Christopher R.	(87) EP2016064533
AND RESPONSE FUSION	COFFMAN, Patrick L.	28.12.2017
(73) Microsoft Technology Licensing, LLC	SCHIMPF, Daniel O.	(22) 23.06.2016
(72) BRINKMAN, Donald	DASCOLA, Jonathan R.	(54) SYSTEM FOR TAKING INVENTORY
ABRAMSON, Dustin	HUGHES, Brittany D.	AND ESTIMATING THE POSITION OF
MU, Hailong	LANGOULANT, Brendan J.	OBJECTS
KOUKOU MIDIS, Emmanouil	PITSCHER, Donald W.	(73) Keonn Technologies S.L.
ALEXANDROPOULOU, Maria	MARCINIAK, Craig A.	(72) MORENZA-CINOS, Marc
JOHNSON, Joseph Edwin, Jr.	HAN, Byron B.	POUS, Rafael
ELACHQAR, Oussama	CHAUDHRI, Imran	DE PORRATA-DORIA, Ramir
(31) 201715620724	WHALLEY, Andrew R.	(51) G06K 7/08
201762480958 P	GAMBLE, Matthew H.	G06Q 20/32
(32) 12.06.2017	SHEPHERD, Matthew E.	G07F 7/08
03.04.2017	FEDERIGHI, Craig M.	G06Q 20/20
(33) United States of America	YANG, Lawrence	H04B 5/00
United States of America	CHRISTIE, Gregory	(11) EP3418940
(51) G06F 21/31	(31) 201414480183	(21) EP17796375.8
G06F 21/64	201361875669 P	(47) 09.02.2022
(11) EP3510515	(32) 08.09.2014	(87) KR2017004820
(21) EP17758543.7	09.09.2013	16.11.2017
(47) 09.02.2022	(33) United States of America	(22) 10.05.2017
(87) EP2017071621	United States of America	(54) MAGNETIC STRIPE DATA
15.03.2018	(51) G06F 21/55	TRANSMISSION DEVICE AND
(22) 29.08.2017	G06F 21/56	METHOD
(54) DATA GLASSES FOR	(11) EP3502944	(73) Samsung Electronics Co., Ltd.
CRYPTOGRAPHICALLY SIGNING	(21) EP18213891.7	(72) LEE, Jungyub
IMAGE DATA	(47) 09.02.2022	LEE, Youngju
(73) Bundesdruckerei GmbH	(22) 19.12.2018	HA, Dohyuk

OLYUNIN, Nicolay	(11) EP3786847	AUTHORISATION VERIFICATION
KUM, Junsig	(21) EP20199076.9	APPARATUS ON THE BASIS OF
(31) 20160057176	(47) 09.02.2022	INFORMATION FROM A SHIPMENT
(32) 10.05.2016	(22) 23.07.2018	(73) Deutsche Post AG
(33) Korea (Republic)	(54) SYSTEM FOR LOCATING AN OBJECT	(72) CARSTENS, Christian
(51) G06K 9/00	TO BE X-RAYED	LIPPERT, Marcus
(11) EP3731133	(73) Beweis	DAUTZ, Christoph
(21) EP19809368.4	(72) CROZET, Sylvain	BULYGIN, Stanislav
(47) 09.02.2022	VALENSI, J�r�my	BENZ, Ramin
(87) CN2019077855	CATONIO, Jacky	JANSEN, Jochen
17.09.2020	(31) 1757002	(31) 102014105247
(22) 12.03.2019	(32) 24.07.2017	102013113554
(54) UNDER-SCREEN FINGERPRINT	(33) France	(32) 11.04.2014
RECOGNITION APPARATUS AND	(51) G06N 3/08	05.12.2013
ELECTRONIC DEVICE	G05B 19/042	(33) Germany
(73) SHENZHEN GOODIX TECHNOLOGY	G05B 17/02	Germany
CO., LTD.	G06K 9/62	(51) G06Q 10/10
(72) XIE, Hao	G06K 9/00	H04L 12/58
ZHANG, Schiao	(11) EP3729213	(11) EP2291818
(51) G06K 9/00	(21) EP18833596.2	(21) EP09770642.8
B60R 1/00	(47) 09.02.2022	(47) 09.02.2022
G06T 7/00	(87) AT2018060311	(87) US2009045471
G11B 11/26	27.06.2019	30.12.2009
(11) EP3291137	(22) 20.12.2018	(22) 28.05.2009
(21) EP17187300.3	(54) BEHAVIOUR MODEL OF AN	(54) RECONCILIATION AND REMEDIATION
(47) 09.02.2022	ENVIRONMENT SENSOR	WITH COMMUNICATION ARCHIVES
(22) 22.08.2017	(73) AVL List GmbH	(73) Microsoft Technology Licensing, LLC
(54) CAMERA BASED TRAILER	(72) PAULWEBER, Michael	(72) CHAND, Naveen
DETECTION AND TRACKING	SAAD, Kmeid	KAY, Jeffrey
(73) Aptiv Technologies Limited	(31) 510702017	THOMAS, Shawn
(72) CASHLER, Robert, J	(32) 22.12.2017	WANG, Yamin
KRISHNA PRASAD, Premchand	(33) Austria	PULLA, Gautam
(31) 201615257062	(51) G06N 10/00	(31) 147668
(32) 06.09.2016	(11) EP3685321	(32) 27.06.2008
(33) United States of America	(21) EP17784775.3	(33) United States of America
(51) G06K 9/20	(47) 09.02.2022	(51) G06Q 20/20
G06K 9/62	(87) US2017054714	G06Q 20/02
G06K 9/74	11.04.2019	G06Q 20/38
(11) EP3629237	(22) 02.10.2017	(11) EP3699851
(21) EP18197145.8	(54) FERMIONIC SIMULATION GATES	(21) EP19157958.0
(47) 09.02.2022	(73) Google LLC	(47) 09.02.2022
(22) 27.09.2018	(72) BABBUSH, Ryan	(22) 19.02.2019
(54) DEVICE AND METHOD TO IMPROVE	(51) G06Q 10/08	(54) DERIVATION OF A TOKEN USING A
THE ROBUSTNESS AGAINST	B65G 1/04	TRANSACTION-SPECIFIC UNIQUE
'ADVERSARIAL EXAMPLES'	B66F 9/06	KEY
(73) Robert Bosch GmbH	(11) EP3372534	(73) VR Payment GmbH
(72) Kolter, Jeremy Zico	(21) EP18163439.5	(72) BARTEL, Oliver
Li, Billy	(47) 09.02.2022	(51) G06Q 20/22
(51) G06K 9/34	(22) 05.12.2013	G06Q 20/40
(11) EP3401842	(54) ROBOT FOR TRANSPORTING	G06F 21/57
(21) EP16883481.0	STORAGE BINS	G06F 21/62
(47) 09.02.2022	(73) Autostore Technology AS	H04W 12/06
(87) CN2016113843	(72) HOGNALAND, Ingvar	H04W 12/082
13.07.2017	(31) 20121488	(11) EP3226128
(22) 30.12.2016	(32) 10.12.2012	(21) EP17159233.0
(54) TEXT IMAGE PROCESSING METHOD	(33) Norway	(47) 09.02.2022
AND APPARATUS	(51) G06Q 10/08	(22) 03.03.2017
(73) Tencent Technology (Shenzhen)	G07C 9/00	(54) METHOD AND DEVICE FOR ONLINE
Company Limited	H04W 4/80	PAYMENT
(72) ZHOU, Longsha	H04W 12/082	(73) Beijing Xiaomi Mobile Software Co., Ltd.
WANG, Hongfa	(11) EP3077966	(72) LI, Minghao
(31) 201610004431	(21) EP14811810.2	WU, Liangxiang
(32) 05.01.2016	(47) 09.02.2022	LIU, Ming
(33) China	(87) EP2014076573	(31) 201610186624
(51) G06K 19/04	11.06.2015	(32) 29.03.2016
G06K 19/077	(22) 04.12.2014	(33) China
G09F 3/03	(54) SELECTION OF ACCESS CONTROL	(51) G06T 5/00
	APPARATUSES ON AN ACCESS	(11) EP3729365

(21) EP18834095.4	A61B 8/06	(11) EP3671634
(47) 09.02.2022	A61B 8/08	(21) EP19216742.7
(87) US2018065143	A61B 5/025	(47) 09.02.2022
27.06.2019	A61B 6/03	(22) 16.12.2019
(22) 12.12.2018	A61B 6/00	(54) CURVILINEAR OBJECT
(54) IMPROVED INVERSE TONE MAPPING	G01R 33/563	SEGMENTATION WITH GEOMETRIC
METHOD AND CORRESPONDING	G16H 50/30	PRIORS
DEVICE	A61B 5/026	(73) Palo Alto Research Center Incorporated
(73) InterDigital VC Holdings, Inc.	(11) EP3664026	(72) CHERUKURI, Venkateswararao
(72) GUERMOUD, Hassane	(21) EP20151462.7	KUMAR B G, Vijay
POULI, Tania	(47) 09.02.2022	BALA, Raja
CAUVIN, Laurent	(22) 27.02.2014	(31) 201816223519
KERVEC, Jonathan	(54) AUTOMATICALLY SELECTING IMAGES	(32) 18.12.2018
(31) 17306862	TO PRODUCE MODELS FOR USE IN	(33) United States of America
(32) 21.12.2017	PATIENT-SPECIFIC BLOOD FLOW	(51) G06T 9/00
(33) European Patent Office (EPO)	SIMULATION	(11) EP3185152
(51) G06T 5/00	(73) HeartFlow, Inc.	(21) EP15307117.0
G06T 1/20	(72) SCHAAP, Michiel	(47) 09.02.2022
G06T 1/60	WU, Zhongle	(22) 22.12.2015
G06T 3/00	SENGUPTA, Souma	(54) DISTRIBUTED CLASH AND SNAPPING
(11) EP3640886	FONTE, Timothy, A.	(73) Dassault Systèmes
(21) EP19197618.2	HUNLEY, Stanley, C.	(72) TUFFREAU, Jean Julien
(47) 09.02.2022	GRADY, Leo, J.	BOULKENAFED, Malika
(22) 04.04.2016	(31) 201414163589	(51) G06T 17/00
(54) HOMOGRAPHY RECTIFICATION	201361793162 P	A61C 8/00
(73) Cognex Corporation	(32) 24.01.2014	A61C 13/00
(72) BOGAN, Nathaniel	15.03.2013	G06N 3/02
(31) 201514678279	(33) United States of America	(11) EP3729380
201514678299	United States of America	(21) EP18825723.2
(32) 03.04.2015	(51) G06T 7/00	(47) 09.02.2022
03.04.2015	G06K 9/46	(87) EP2018086686
(33) United States of America	(11) EP3471054	27.06.2019
United States of America	(21) EP17196657.5	(22) 21.12.2018
(51) G06T 7/00	(47) 09.02.2022	(54) AUTOMATED 3D ROOT SHAPE
(11) EP3407297	(22) 16.10.2017	PREDICTION USING DEEP LEARNING
(21) EP18172802.3	(54) METHOD FOR DETERMINING AT	METHODS
(47) 09.02.2022	LEAST ONE OBJECT FEATURE OF AN	(73) Promaton Holding B.V.
(22) 17.05.2018	OBJECT	(72) ANSSARI MOIN, David
(54) METHOD AND DEVICE FOR	(73) Siemens Healthcare GmbH	CLAESSEN, Frank Theodorus Catharina
DETERMINING A CHARACTERISTIC	(72) Mühlberg, Alexander	VERHEIJ, Bas Alexander
OF A DISPLAY DEVICE	Kärgel, Rainer	CHERICI, Teo
(73) InterDigital CE Patent Holdings	Sühling, Michael	(31) 17210529
(72) DUCHENE, Sylvain	Wels, Michael	(32) 22.12.2017
STAUDER, Jürgen	(51) G06T 7/00	(33) European Patent Office (EPO)
ROBERT, Philippe	G06T 7/33	(51) G07C 5/00
(31) 17305600	G06T 7/12	B60W 50/00
(32) 23.05.2017	G06T 7/143	H04L 12/12
(33) European Patent Office (EPO)	(11) EP3520075	B60R 16/02
(51) G06T 7/00	(21) EP17786832.0	(11) EP2788240
(11) EP3365868	(47) 09.02.2022	(21) EP12855864.0
(21) EP16826381.2	(87) EP2017074727	(47) 09.02.2022
(47) 09.02.2022	05.04.2018	(87) KR2012010401
(87) FR2016053442	(22) 28.09.2017	13.06.2013
13.07.2017	(54) CBCT TO MR REGISTRATION	(22) 04.12.2012
(22) 15.12.2016	VIA OCCLUDED SHAPE	(54) SYSTEM AND METHOD FOR
(54) DIGITAL ANALYSIS OF A DIGITAL	RECONSTRUCTION AND ROBUST	MANAGING VEHICLE BY USING
IMAGE REPRESENTING A	POINT MATCHING	MOBILE TERMINAL
WOUND FOR ITS AUTOMATIC	(73) Koninklijke Philips N.V.	(73) Samsung Electronics Co., Ltd.
CHARACTERIZATION	Yale University	(72) MIN, Hyun-suk
(73) URGO RECHERCHE INNOVATION ET	(72) SMOLKA, Susanne	JEONG, Dae-yeon
DEVELOPPEMENT	DUNCAN, James	(31) 20110129911
(72) MANSENCAL, Boris	GESCHWIND, Jean-François	(32) 06.12.2011
STEINBRUNN, Julien	TREILHARD, John	(33) Korea (Republic)
DOMENGER, Jean-Philippe	LIN, Ming De	(51) G07C 5/02
(31) 1650111	(31) 201662401375 P	(11) EP3479360
(32) 07.01.2016	(32) 29.09.2016	(21) EP17751837.0
(33) France	(33) United States of America	(47) 09.02.2022
(51) G06T 7/00	(51) G06T 7/10	(87) IB2017053950

04.01.2018	(11) EP3407324	(54) MESSAGE TRANSMISSION SYSTEM,
(22) 30.06.2017	(21) EP18172233.1	COMMUNICATION TERMINAL,
(54) A METHOD FOR ESTIMATING THE	(47) 09.02.2022	SERVER DEVICE, MESSAGE
TRAVEL TIME OF A VEHICLE BASED	(22) 15.05.2018	TRANSMISSION METHOD, AND
ON THE DETERMINATION OF THE	(54) METHOD FOR MONITORING A	PROGRAM
STATE OF THE VEHICLE	VEHICLE BY MEANS OF AT LEAST	(73) NIPPON TELEGRAPH AND
(73) OCTO Telematics S.p.A.	ONE UNMANNED AERIAL VEHICLE,	TELEPHONE CORPORATION
(72) CAPOZZA, Massimo	CONTROL DEVICE AND UNMANNED	(72) YOSHIDA, Reo
(31) UA20164800	AERIAL VEHICLE	OKANO, Yuki
(32) 30.06.2016	(73) Jenoptik Robot GmbH	KOBAYASHI, Tetsutaro
(33) Italy	(72) Reiß, Maik	(31) 2016246821
(51) G07D 7/12	Kienitz, Stefan	(32) 20.12.2016
(11) EP3035301	Schiffer, Lukas	(33) Japan
(21) EP15003525.1	Leijssen, Marco	(51) G09F 9/30
(47) 09.02.2022	Lehning, Michael	G09F 9/00
(22) 10.12.2015	(31) 102017208333	H01L 27/32
(54) METHOD FOR CHECKING	(32) 17.05.2017	H01L 51/50
AUTHENTICITY OF A DOCUMENT	(33) Germany	H05B 33/02
WITH A PHOTOCHROMIC SECUIRITY	(51) G08G 1/16	G09F 11/21
FEATURE	B60R 1/00	G09F 11/15
(73) Giesecke+Devrient Mobile Security	G06K 9/00	G09F 11/00
GmbH	(11) EP2879109	(11) EP3723070
(72) Gawlas, Florian	(21) EP13822459.7	(21) EP18886275.9
Tarantino, Thomas	(47) 09.02.2022	(47) 09.02.2022
Liebler, Ralf	(87) JP2013068935	(87) JP2018039678
Dorff, Giselher	30.01.2014	13.06.2019
Fiedler, Michael	(22) 11.07.2013	(22) 25.10.2018
(31) 102015004874	(54) VEHICLE-MOUNTED SURROUNDING	(54) DISPLAY DEVICE
102014018866	ENVIRONMENT RECOGNITION	(73) Sony Group Corporation
(32) 16.04.2015	DEVICE	(72) TACHIKAWA, Yoshinori
16.12.2014	(73) Nissan Motor Company, Limited	AZUMA, Yohei
(33) Germany	Clarion Co., Ltd.	YAMAMOTO, Takeshi
Germany	(72) MURAMATSU, Shoji	ARAKI, Soya
(51) G07D 7/121	KIYOHARA, Masahiro	ESHITA, Yoichiro
G07D 7/20	FUKATA, Osamu	(31) 2017235272
(11) EP3078006	UTAGAWA, Akira	(32) 07.12.2017
(21) EP13819079.8	TAKEMURA, Masayuki	(33) Japan
(47) 09.02.2022	HAYAKAWA, Yasuhisa	(51) G09F 17/00
(87) IB2013060674	(31) 2012167603	G09F 27/00
11.06.2015	(32) 27.07.2012	(11) EP3608896
(22) 05.12.2013	(33) Japan	(21) EP19188668.8
(54) DEVICE AND METHOD FOR	(51) G08G 5/00	(47) 09.02.2022
DECODING GRAPHIC AND MICRO-	(11) EP3735624	(22) 26.07.2019
PERFORATED PATTERNS	(21) EP18830337.4	(54) FLAG WITH INTEGRATED DEVICE
(73) Shenzhen Pu Ying Innovation	(47) 09.02.2022	(73) Display Light
Technology Corporation Limited	(87) US2018063766	(72) AZORIN, Didier
(72) AIELLO, Sergio	11.07.2019	(31) 1857402
(51) G07F 11/28	(22) 04.12.2018	(32) 09.08.2018
G07F 11/42	(54) ADJUSTABLE OBJECT AVOIDANCE	(33) France
B65G 47/88	PROXIMITY THRESHOLD	(51) G10C 3/12
(11) EP3082114	(73) QUALCOMM INCORPORATED	G10B 3/12
(21) EP16165544.4	(72) TAVEIRA, Michael Franco	G10H 1/34
(47) 09.02.2022	MELLINGER III, Daniel Warren	(11) EP3605522
(22) 15.04.2016	(31) 201815860928	(21) EP17901665.4
(54) DEVICE FOR HOLDING AND	(32) 03.01.2018	(47) 09.02.2022
EXPPELLING PACKAGES,	(33) United States of America	(87) JP2017011841
PARTICULARLY OF MEDICINES OR	(51) G09C 1/00	27.09.2018
THE LIKE, FROM AN INCLINED CHUTE	H04L 9/16	(22) 23.03.2017
OF A STORAGE CABINET	H04L 9/00	(54) KEYBOARD WEIGHT, KEY UNIT, AND
(73) Label Elettronica S.R.L.	H04L 9/08	METHOD FOR MANUFACTURING KEY
(72) RAMI, Margherita	G06F 16/00	UNIT
RAMI, Enrico	(11) EP3561797	(73) Yamaha Corporation
(31) PD20150083	(21) EP17884208.4	(72) NINOMIYA, Yoriko
(32) 17.04.2015	(47) 09.02.2022	KATO, Tadaharu
(33) Italy	(87) JP2017043766	(51) G10L 15/22
(51) G08G 1/01	28.06.2018	G06F 3/16
G08G 1/04	(22) 06.12.2017	H04N 21/422
G08G 5/00		H04N 21/439

(11) EP3729420	(51) G10L 25/30	(11) EP3475947
(21) EP18814578.3	G10L 15/26	(21) EP17820872.4
(47) 09.02.2022	(11) EP3657501	(47) 09.02.2022
(87) EP2018083477	(21) EP19179693.7	(87) US2017036148
27.06.2019	(47) 09.02.2022	04.01.2018
(22) 04.12.2018	(22) 12.06.2019	(22) 06.06.2017
(54) DEVICE AND METHOD FOR VOICE ASSISTANCE	(54) SPEECH RECOGNITION METHOD AND APPRATUS	(54) MULTI-LEVEL STORAGE IN FERROELECTRIC MEMORY
(73) SAGEMCOM BROADBAND SAS	(73) Samsung Electronics Co., Ltd.	(73) Micron Technology, Inc.
(72) BOURGOIN, Gilles	(72) Lee, Jihyn	(72) KAWAMURA, Christopher John
(31) 1762493	(31) 20180144753	(31) 201615194178
(32) 19.12.2017	(32) 21.11.2018	(32) 27.06.2016
(33) France	(33) Korea (Republic)	(33) United States of America
(51) G10L 17/10	(51) G11C 11/16	(51) G11C 13/00
G10L 15/02	G11C 11/18	(11) EP3547318
G10L 15/06	H01F 10/193	(21) EP19157046.4
G10L 17/04	H01L 27/22	(47) 09.02.2022
G10L 21/0216	H01L 43/10	(22) 13.02.2019
(11) EP3614377	(11) EP3226307	(54) TAILORING CURRENT MAGNITUDE AND DURATION DURING A PROGRAMMING PULSE FOR A MEMORY DEVICE
(21) EP18870826.7	(21) EP15863107.7	(73) INTEL Corporation
(47) 09.02.2022	(47) 09.02.2022	(72) RANGAN, Sanjay
(87) CN2018103255	(87) JP2015082466	LIU, Lu
02.05.2019	02.06.2016	BANERJEE, Koushik
(22) 30.08.2018	(22) 18.11.2015	(31) 201815942329
(54) OBJECT RECOGNITION METHOD, COMPUTER DEVICE AND COMPUTER READABLE STORAGE MEDIUM	(54) MAGNETIC ELEMENT, SKYRMION MEMORY, SOLID-STATE ELECTRONIC DEVICE HAVING SKYRMION MEMORY INSTALLED, DATA RECORDING DEVICE, DATA PROCESSING DEVICE, AND COMMUNICATION DEVICE	(32) 30.03.2018
(73) Tencent Technology (Shenzhen) Company Limited	(73) Riken	(33) United States of America
(72) ZHANG, Mingyuan	(72) KANEKO, Yoshio	(51) G11C 29/52
(31) 201710992605	MATSUNO, Jobu	G11C 29/00
(32) 23.10.2017	KAWASAKI, Masashi	G11C 29/42
(33) China	TOKURA, Yoshinori	G11C 5/02
(51) G10L 21/0208	NAKAMURA, Masao	G06F 11/10
H04M 9/08	(31) 2014240225	G11C 5/04
G10L 19/00	(32) 27.11.2014	G11C 7/10
G10L 13/00	(33) Japan	G11C 29/04
G10L 15/26	(51) G11C 11/419	(11) EP3422353
G10L 15/02	G11C 11/4096	(21) EP18175275.9
(11) EP3441969	G11C 11/412	(47) 09.02.2022
(21) EP18187938.8	G11C 11/405	(22) 30.05.2018
(47) 09.02.2022	G11C 7/10	(54) STACKED MEMORY CHIP DEVICE WITH ENHANCED DATA PROTECTION CAPABILITY
(22) 08.08.2018	G11C 11/418	(73) INTEL Corporation
(54) SYNTHETIC SPEECH FOR IN VEHICLE COMMUNICATION	G11C 11/408	(72) HALBERT, John B.
(73) BlackBerry Limited	G11C 11/4074	ALAMEER, Hussein
(72) HETHERINGTON, Phillip, Alan	G11C 11/4094	WU, Wei
LAYTON, Leonard, Charles	G11C 5/14	AGARWAL, Rajat
PARANJPE, Shreyas, Anand	G11C 7/12	KANG, Uksong
(31) 201715672808	G11C 11/4093	CRISS, Kjersten E.
(32) 09.08.2017	(11) EP3567591	(31) 201715640182
(33) United States of America	(21) EP19182004.2	(32) 30.06.2017
(51) G10L 25/18	(47) 09.02.2022	(33) United States of America
G10L 25/54	(22) 28.03.2018	(51) G16B 20/00
G10L 25/21	(54) RANDOM-ACCESS MEMORY AND ASSOCIATED CIRCUIT, METHOD AND DEVICE	G16B 30/00
(11) EP3355302	(73) Tang, Chao-Jing	(11) EP3256605
(21) EP16848057.2	(72) Tang, Chao-Jing	(21) EP16748745.3
(47) 09.02.2022	(31) 106116248	(47) 09.02.2022
(87) CN2016099053	106114794	(87) CN2016073753
30.03.2017	(32) 17.05.2017	18.08.2016
(22) 14.09.2016	04.05.2017	(22) 14.02.2016
(54) AUDIO RECOGNITION METHOD AND SYSTEM	(33) Taiwan, Province of China	(54) DETECTING MUTATIONS FOR CANCER SCREENING AND FETAL ANALYSIS
(73) Advanced New Technologies Co., Ltd.	Taiwan, Province of China	(73) The Chinese University Of Hong Kong
(72) DU, Zhijun	(51) G11C 11/56	(72) JIANG, Peiyong
(31) 201510618550	G11C 11/22	LO, Yuk-Ming Dennis
(32) 24.09.2015		
(33) China		

CHAN, Kwan Chee	DOS SANTOS NUNES FOLGADO,	(31) 201715790569
CHIU, Rossa Wai Kwun	Duarte Miguel	(32) 23.10.2017
(31) 201562271196 P	(31) 2019115612	(33) United States of America
201562114471 P	19183514	(51) H01F 17/04
(32) 22.12.2015	(32) 28.06.2019	H01F 3/14
10.02.2015	30.06.2019	H01F 27/38
(33) United States of America	(33) Portugal	H02M 3/28
United States of America	European Patent Office (EPO)	(11) EP3762952
(51) G16B 50/40	(51) G21C 17/013	(21) EP19720473.8
G06F 16/903	B62D 55/32	(47) 09.02.2022
G16B 30/00	H01F 27/12	(87) EP2019059751
G06F 21/62	(11) EP3552213	31.10.2019
G16H 10/60	(21) EP17844604.3	(22) 16.04.2019
(11) EP2798553	(47) 09.02.2022	(54) INDUCTOR ASSEMBLY
(21) EP12861498.9	(87) IB2017001628	(73) Siemens Aktiengesellschaft
(47) 09.02.2022	14.06.2018	(72) HÄNSEL, Stefan
(87) KR2012011477	(22) 06.12.2017	MONDAL, Gopal
04.07.2013	(54) SYSTEMS AND METHOD FOR	ROBINSON, Jonathan
(22) 26.12.2012	INSPECTING A MACHINE	NEUMEISTER, Matthias
(54) APPARATUS AND METHOD FOR	(73) Hitachi Energy Switzerland AG	(31) 18169864
MANAGING GENETIC INFORMATION	(72) MORATO, Carlos	(32) 27.04.2018
(73) SNU R&DB Foundation	LASKO, Daniel	(33) European Patent Office (EPO)
Macrogen Inc.	CHEIM, Luiz, V.	(51) H01F 27/00
(72) RHEE, Hwanseok	FUHLBRIGGE, Thomas, A.	(11) EP3188202
SEO, Jeong-Sun	SHAH, Harshang	(21) EP17155911.5
CHUNG, Hedoo	SHARMA, Saumya	(47) 09.02.2022
(31) 20110143958	ROSSANO, Gregory, F.	(22) 23.02.2016
(32) 27.12.2011	EAKINS, William, John	(54) ELECTRONIC COMPONENT
(33) Korea (Republic)	COLE, Gregory	(73) Sumida Corporation
(51) G16H 20/30	CHOI, Sanguen	(72) OOKI, Juichi
(11) EP3084653	RAKUFF, Stefan	TAKAHASHI, Motomi
(21) EP14812241.9	PATEL, Poorvi	KAJIYAMA, Tomohiro
(47) 09.02.2022	NICHOLAS, Nolan, W.	KIKUCHI, Kazuyuki
(87) EP2014077795	ZHANG, Biao	KAWARAI, Mitsugu
25.06.2015	(31) 201662431323 P	OTSUKA, Tsutomu
(22) 15.12.2014	(32) 07.12.2016	YAMADA, Satoru
(54) MASK WEAR-OUT ASSESSMENT	(33) United States of America	(31) 2015033415
SYSTEM	(51) G21F 5/14	(32) 23.02.2015
(73) Koninklijke Philips N.V.	B65D 88/06	(33) Japan
(72) HAARTSEN, Jacob Roger	B65D 90/12	(51) H01G 4/26
KLEE, Mareike	(11) EP3559957	H01G 4/30
WILLARD, Nicolaas Petrus	(21) EP17837964.0	H01G 4/232
WOUTERS, Cornelis Bernardus Aloysius	(47) 09.02.2022	H01G 4/38
GERHARDT, Lutz Christian	(87) EP2017084226	(11) EP2519959
VAN ZANTEN, Joyce	28.06.2018	(21) EP10814715.8
POESSE, Jan Hendrik	(22) 21.12.2017	(47) 09.02.2022
(31) 13198909	(54) INNER PACKAGE OF AN OVERPACK	(87) MY2010000334
(32) 20.12.2013	(73) Soletanche Freyssinet S.A.S.	07.07.2011
(33) European Patent Office (EPO)	(72) SHACKELL, Daniel	(22) 30.12.2010
(51) G16H 50/00	(31) 201622080	(54) LOW INDUCTANCE INTEGRAL
A41D 1/00	(32) 23.12.2016	CAPACITOR ASSEMBLY
G06K 9/00	(33) United Kingdom	(73) Specscan Sdn. Bhd.
(11) EP3758023	(51) H01C 7/02	(72) MAHADEVAN, David
(21) EP20183007.2	H01H 85/06	CHEONG, Kean Phoe
(47) 09.02.2022	H01B 1/14	LOW, Kum Wan
(22) 29.06.2020	H01B 1/20	LOW, Kum Sang
(54) METHOD AND DEVICE FOR	H01B 1/24	CHIA, Chin Yang
ASSESSING PHYSICAL MOVEMENT	H01H 85/147	NG, Albert Kok Foo
OF AN OPERATOR DURING A	(11) EP3477678	LOW, Chee Hoong
WORK CYCLE EXECUTION ON AN	(21) EP18202056.0	(31) PI20095694
INDUSTRIAL MANUFACTURING WORK	(47) 09.02.2022	(32) 31.12.2009
STATION	(22) 23.10.2018	(33) Malaysia
(73) Associação Fraunhofer Portugal	(54) PPTC COMPOSITION AND DEVICE	(51) H01H 9/40
Research	HAVING THERMAL DEGRADATION	H01H 9/54
(72) FERNANDES CARVALHO, Miguel	RESISTANCE	H01H 33/59
Ângelo	(73) Littelfuse, Inc.	H01H 9/30
DA SILVEIRA BARANDAS, Marília	(72) Chen, Jianhua	(11) EP3644336
SILVEIRA GAMBOA, Hugo Filipe	Tsang, Chun-Kwan	(21) EP18837767.5

(47) 09.02.2022	(54) FIXATION SYSTEM IN USE FOR	(11) EP3563404
(87) CN2018096225	MEDIUM OR HIGH VOLTAGE	(21) EP17886152.2
31.01.2019	SWITCHING POLES	(47) 09.02.2022
(22) 19.07.2018	(73) ABB Schweiz AG	(87) US2017060298
(54) DIRECT-CURRENT ARC-	(72) Gentsch, Dietmar	05.07.2018
EXTINGUISHING DEVICE	Reuber, Christian	(22) 07.11.2017
(73) Guo, Qiaoshi	(51) H01J 35/06	(54) APPARATUS FOR FIELD GUIDED
(72) GUO, Qiaoshi	H01J 35/16	ACID PROFILE CONTROL IN A
(31) 201810792433	H05G 1/00	PHOTORESIST LAYER
201810723029	H05G 1/02	(73) Applied Materials, Inc.
201810664507	(11) EP3240010	(72) GODET, Ludovic
201810518236	(21) EP15873052.3	BABAYAN, Viachslav
201810384250	(47) 09.02.2022	OUYANG, Christine Y.
201810334791	(87) JP2015085786	(31) 201715448060
201810026942	30.06.2016	201662440016 P
201711419656	(22) 22.12.2015	(32) 02.03.2017
201711360342	(54) FIELD EMISSION DEVICE AND	29.12.2016
201711279281	REFORMING TREATMENT METHOD	(33) United States of America
201711071590	(73) Meidensha Corporation	United States of America
201711028608	(72) TANIMIZU, Toru	(51) H01L 21/20
201710987367	TAKAHASHI, Daizo	H01L 29/78
201710828462	FUKAI, Toshimasa	H01L 21/84
201710752610	(31) 2014262766	H01L 27/12
201710681425	(32) 25.12.2014	H01L 29/04
201710608043	(33) Japan	(11) EP2887384
(32) 18.07.2018	(51) H01J 35/16	(21) EP14199888.0
04.07.2018	H01J 9/26	(47) 09.02.2022
25.06.2018	H01J 5/26	(22) 22.12.2014
27.05.2018	H01B 17/44	(54) Improved method for producing stressed
26.04.2018	H01B 17/56	semiconductor blocks on the insulating
15.04.2018	(11) EP3544043	layer of a semiconductor on insulator
11.01.2018	(21) EP19164354.3	substrate
25.12.2017	(47) 09.02.2022	(73) Commissariat à l'Énergie Atomique et
18.12.2017	(22) 21.03.2019	aux Énergies Alternatives
06.12.2017	(54) HIGH VOLTAGE SEALS AND	(72) Reboh, Shay
03.11.2017	STRUCTURES HAVING REDUCED	Maitrejean, Sylvain
29.10.2017	ELECTRIC FIELDS	Mazen, Frédéric
20.10.2017	(73) Varex Imaging Corporation	Batude, Perrine
14.09.2017	(72) HANSEN, Wayne R	(31) 1363418
28.08.2017	(31) 201815928141	(32) 23.12.2013
10.08.2017	(32) 22.03.2018	(33) France
24.07.2017	(33) United States of America	(51) H01L 21/3065
(33) China	(51) H01J 61/54	H01L 21/3213
China	H05B 41/30	H01J 37/32
China	H01J 61/90	G02B 5/18
China	(11) EP3703105	(11) EP3712927
China	(21) EP20159988.3	(21) EP18895871.4
China	(47) 09.02.2022	(47) 09.02.2022
China	(22) 28.02.2020	(87) KR2018015930
China	(54) DEVICE FOR GENERATING	04.07.2019
China	OPTIMISED UV SPECTRUM	(22) 14.12.2018
China	(73) Sanodev	(54) PLASMA ETCHING METHOD USING
China	(72) AGIER, Yaneck	FARADAY CAGE
China	OSTERMEYER, Hugo	(73) LG CHEM, LTD.
China	LAMARDELLE, Arnaud	(72) YOON, Jung Hwan
China	SANDOVAL, Laure	SHIN, Bu Gon
China	PICARD, Nicolas	PARK, Jeong Ho
China	(31) 1902113	HER, Eun Kyu
China	(32) 28.02.2019	CHOO, So Young
China	(33) France	JANG, Song Ho
(51) H01H 9/48	(51) H01L 21/027	KIM, Chung Wan
H01H 33/24	H01L 21/67	(31) 20170179300
H01H 33/662	H01L 21/677	(32) 26.12.2017
(11) EP3499537	H01L 21/683	(33) Korea (Republic)
(21) EP17207827.1	G03F 7/004	(51) H01L 21/44
(47) 09.02.2022	G03F 7/38	H01L 21/82
(22) 15.12.2017	G03F 7/20	G06K 9/00
	H01L 21/687	H01L 27/146

<p>H01L 31/112 (11) EP3596749 (21) EP17832176.6 (47) 09.02.2022 (87) CN2017100462 20.09.2018 (22) 05.09.2017 (54) OPTICAL DETECTOR, FABRICATION METHOD THEREOF, FINGERPRINT RECOGNITION SENSOR, AND DISPLAY DEVICE (73) BOE Technology Group Co., Ltd. (72) ZHANG, Wenlin SUN, Jianming NING, Ce (31) 201710144824 (32) 13.03.2017 (33) China</p> <hr/> <p>(51) H01L 21/768 H01L 25/065 H01L 23/00 H01L 21/20 H01L 23/48 (11) EP3671812 (21) EP18213852.9 (47) 09.02.2022 (22) 19.12.2018 (54) A METHOD FOR BONDING AND INTERCONNECTING SEMICONDUCTOR CHIPS (73) IMEC vzw (72) Jussot, Mr. Julien Hiblot, Mr. Gaspard Van der Plas, Mr. Geert</p> <hr/> <p>(51) H01L 21/8258 H01L 21/285 H01L 21/768 H01L 21/8238 (11) EP3136429 (21) EP16185745.3 (47) 09.02.2022 (22) 25.08.2016 (54) FORMATION OF OHMIC CONTACTS FOR A DEVICE COMPRISING A REGION MADE OF III-V MATERIAL AND A REGION MADE OF ANOTHER SEMICONDUCTOR MATERIAL (73) STMicroelectronics (Crolles 2) SAS Commissariat à l'énergie atomique et aux énergies alternatives (72) NEMOUCHI, Fabrice RODRIGUEZ, Philippe GHEGIN, Elodie (31) 1558060 (32) 31.08.2015 (33) France</p> <hr/> <p>(51) H01L 23/13 H01L 23/02 H01L 23/12 H05K 1/03 H05K 1/09 H05K 3/38 (11) EP3588551 (21) EP18757272.2 (47) 09.02.2022 (87) JP2018002148 30.08.2018 (22) 24.01.2018</p>	<p>(54) WIRING SUBSTRATE, ELECTRONIC DEVICE PACKAGE, AND ELECTRONIC DEVICE (73) Kyocera Corporation (72) YAMAMOTO, Makoto KIRIKIHIRA, Isamu (31) 2017031937 (32) 23.02.2017 (33) Japan</p> <hr/> <p>(51) H01L 23/367 H01L 21/48 (11) EP2962328 (21) EP14719633.1 (47) 09.02.2022 (87) EP2014053224 04.09.2014 (22) 19.02.2014 (54) METHOD FOR PRODUCING A HEAT SINK, AND HEAT SINK FOR ELECTRICAL COMPONENTS (73) Neuman Aluminium Fließpresswerk GmbH (72) WOLFF, Roland (31) 501232013 (32) 26.02.2013 (33) Austria</p> <hr/> <p>(51) H01L 23/367 H01L 23/373 H05K 7/20 H01L 23/047 H01L 23/13 H01L 23/36 H01L 23/433 H01L 23/495 (11) EP3496140 (21) EP18209817.8 (47) 09.02.2022 (22) 03.12.2018 (54) MICROELECTRONIC COMPONENTS HAVING INTEGRATED HEAT DISSIPATION POSTS, SYSTEMS INCLUDING THE SAME, AND METHODS FOR THE FABRICATION THEREOF (73) NXP USA, Inc. (72) MOLLA, Jaynal A. ABDO, David TUCKER, Geoffrey HART, Paul Richard D'ACOSTA, Carl Emil POARCH, Justin Eugene SHAH, Mahesh K. Li, Lu VISWANATHAN, Lakshminarayan (31) 201715832479 (32) 05.12.2017 (33) United States of America</p> <hr/> <p>(51) H01L 23/367 H01L 23/473 H01L 23/40 (11) EP3340292 (21) EP16206002.4 (47) 09.02.2022 (22) 21.12.2016 (54) HEAT SINK, POWER ELECTRONICS UNIT COMPRISING THE HEAT SINK AND METHOD FOR ASSEMBLING THE POWER ELECTRONICS UNIT</p>	<p>(73) Valeo Siemens eAutomotive Germany GmbH (72) KLAPPACH, Ullus</p> <hr/> <p>(51) H01L 25/075 H01L 33/62 (11) EP3660903 (21) EP18837540.6 (47) 09.02.2022 (87) KR2018008407 31.01.2019 (22) 25.07.2018 (54) TRANSPARENT LIGHT EMITTING ELEMENT DISPLAY (73) LG Chem, Ltd. (72) LEE, Kun Seok SON, Yong Goo LEE, Seung Heon (31) 20170096101 (32) 28.07.2017 (33) Korea (Republic)</p> <hr/> <p>(51) H01L 27/12 H01L 29/78 H01L 29/49 H01L 29/66 H01L 29/786 (11) EP3343618 (21) EP17210707.0 (47) 09.02.2022 (22) 27.12.2017 (54) THIN FILM TRANSISTOR AND METHOD FOR MANUFACTURING THE SAME, AND DISPLAY DEVICE INCLUDING THE SAME (73) LG Display Co., Ltd. (72) JOON, Hyung (31) 20160183661 (32) 30.12.2016 (33) Korea (Republic)</p> <hr/> <p>(51) H01L 27/146 A61B 1/045 H04N 5/357 H04N 5/374 H04N 5/365 H04N 5/369 (11) EP3754710 (21) EP20187566.3 (47) 09.02.2022 (22) 22.06.2017 (54) SOLID-STATE IMAGE PICKUP APPARATUS, CORRECTION METHOD, AND ELECTRONIC APPARATUS (73) Sony Semiconductor Solutions Corporation (72) NISHIKORI, Katsumi TSUZUKI, Takeru (31) 2016133966 (32) 06.07.2016 (33) Japan</p> <hr/> <p>(51) H01L 27/146 H01L 27/15 (11) EP3770968 (21) EP20185102.9 (47) 09.02.2022 (22) 09.07.2020 (54) METHOD FOR COLLECTIVE CURVATURE OF A SET OF ELECTRONIC CHIPS</p>
--	---	---

(73) Commissariat à l'Energie Atomique et aux Energies Alternatives	(54) A METHOD FOR FORMING A QUBIT DEVICE	(47) 09.02.2022
(72) CHAMBION, Bertrand	(73) IMEC VZW	(87) US2012033345
COLONNA, Jean-Philippe	(72) MERCKLING, Clement	10.01.2013
(31) 1908529	COLLAERT, Nadine	(22) 12.04.2012
(32) 26.07.2019	(51) H01L 29/861	(54) PHOTOVOLTAIC MODULE AND LAMINATE
(33) France	H01L 21/329	(73) Maxeon Solar Pte. Ltd.
(51) H01L 27/146	H01L 29/06	(72) KIM, Sung Dug
H04N 5/33	H01L 25/18	BUNEA, Gabriela E.
H04N 13/00	H01L 23/495	KAVULAK, David F. J.
(11) EP3503192	(11) EP3451387	(31) 201113175578
(21) EP18208212.3	(21) EP18191836.8	(32) 01.07.2011
(47) 09.02.2022	(47) 09.02.2022	(33) United States of America
(22) 26.11.2018	(22) 30.08.2018	(51) H01L 31/113
(54) DEVICE FOR ACQUIRING A 2D IMAGE AND A DEPTH IMAGE OF A SCENE	(54) PACKAGED FAST INVERSE DIODE COMPONENT FOR PFC APPLICATIONS	G06F 3/042
(73) Commissariat à l'Energie Atomique et aux Energies Alternatives	(73) Littelfuse, Inc.	G01J 1/42
(72) ROCHAS, Alexis	(72) Seok, Kyoung Wook	(11) EP2639838
CAZAUX, Yvon	(31) 201715693416	(21) EP12191754.6
VAILLANT, Jérôme	(32) 31.08.2017	(47) 09.02.2022
(31) 1762469	(33) United States of America	(22) 08.11.2012
(32) 19.12.2017	(51) H01L 29/861	(54) Photosensing transistor for optical touch screen device and method of manufacturing the photosensing transistor
(33) France	H01L 29/06	(73) Samsung Electronics Co., Ltd
(51) H01L 27/32	H01L 21/329	(72) Ahn, Seung-eon
(11) EP3336899	(11) EP3451386	Jeon, Sang-hun
(21) EP17207119.3	(21) EP18191735.2	Song, I-hun
(47) 09.02.2022	(47) 09.02.2022	(31) 20120025666
(22) 13.12.2017	(22) 30.08.2018	(32) 13.03.2012
(54) LIGHT EMITTING DISPLAY DEVICE	(54) INVERSE DIODE WITH CHARGE CARRIER EXTRACTION REGIONS	(33) Korea (Republic)
(73) LG Display Co., Ltd.	(73) Littelfuse, Inc.	(51) H01L 43/12
(72) KIM, Ho-Jin	(72) Seok, Kyoung Wook	H01L 21/033
KIM, JongSung	(31) 201715693392	(11) EP3557637
BAIK, SeungMin	(32) 31.08.2017	(21) EP19158871.4
(31) 20160170350	(33) United States of America	(47) 09.02.2022
(32) 14.12.2016	(51) H01L 31/0224	(22) 22.02.2019
(33) Korea (Republic)	H01L 31/05	(54) METAL/DIELECTRIC/METAL HYBRID HARD MASK TO DEFINE ULTRA-LARGE HEIGHT TOP ELECTRODE FOR SUB 60 NM MRAM DEVICES
(51) H01L 29/40	H01L 31/02	(73) Taiwan Semiconductor Manufacturing Company, Ltd.
H01L 29/78	(11) EP3300123	(72) YANG, YI
H01L 29/06	(21) EP17192609.0	WANG, YU-JEN
H01L 29/423	(47) 09.02.2022	(31) 201815902391
H01L 29/08	(22) 22.09.2017	(32) 22.02.2018
H01L 29/10	(54) SOLAR CELL AND SOLAR CELL PANEL INCLUDING THE SAME	(33) United States of America
(11) EP3540780	(73) LG ELECTRONICS INC.	(51) H01L 51/42
(21) EP19163154.8	(72) CHANG, Sungho	C07F 1/10
(47) 09.02.2022	SONG, Wondoo	C07F 5/00
(22) 15.03.2019	CHO, Yunhui	C01G 29/00
(54) EMBEDDED FIELD PLATE FIELD EFFECT TRANSISTOR	LEE, Suchun	C01G 30/00
(73) Littelfuse, Inc.	KIM, Youngjun	H01L 51/00
(72) SEOK, Kyoung Wook	(31) 20160128103	(11) EP3345230
(31) 201815924186	20160126000	(21) EP16762840.3
(32) 17.03.2018	20160124236	(47) 09.02.2022
(33) United States of America	(32) 05.10.2016	(87) GB2016052691
(51) H01L 29/66	30.09.2016	09.03.2017
H01L 21/334	27.09.2016	(22) 31.08.2016
H01L 29/06	(33) Korea (Republic)	(54) DOUBLE PEROVSKITE
H01L 29/76	Korea (Republic)	(73) Oxford University Innovation Limited
H01L 39/22	Korea (Republic)	(72) HAGIGHIRAD, Amir Abbas
B82Y 10/00	(51) H01L 31/048	SNAITH, Henry James
H01L 29/41	H01L 31/049	VOLONAKIS, George
H01L 29/08	B32B 7/12	FILIP, Marina
H01L 29/423	B32B 27/08	GIUSTINO, Feliciano
(11) EP3505490	B32B 27/32	(31) 201603804
(21) EP17211120.5	B32B 27/12	
(47) 09.02.2022	(11) EP2727237	
(22) 29.12.2017	(21) EP12806894.7	

201515546	(54) SECONDARY BATTERY, BATTERY PACK, AND VEHICLE	(72) Sasaki, Akito
(32) 04.03.2016		Nakamura, Miho
02.09.2015	(73) KABUSHIKI KAISHA TOSHIBA	Naka, Tomomichi
(33) United Kingdom	(72) Takami, Norio	Tokuno, Yoko
United Kingdom	Yoshima, Kazuomi	Oozu, Hideyuki
(51) H01L 51/42	Matsuno, Shinsuke	(31) 2012068970
H01L 31/072	(31) 2017052749	(32) 26.03.2012
(11) EP2936579	(32) 17.03.2017	(33) Japan
(21) EP13815840.7	(33) Japan	
(47) 09.02.2022	(51) H01M 4/13	(51) H01M 4/62
(87) IL2013051044	H01M 10/0587	H01M 10/052
26.06.2014	H01M 10/052	H01M 10/0562
(22) 19.12.2013	H01M 10/04	H01M 4/02
(54) PEROVSKITE SCHOTTKY TYPE SOLAR CELL	H01M 4/131	(11) EP3358663
(73) Yissum Research Development Company of the Hebrew University of Jerusalem Ltd.	H01M 10/0525	(21) EP17207396.7
(72) ETGAR, Lioz	H01M 4/62	(47) 09.02.2022
(31) 201261740147 P	(11) EP3637506	(22) 14.12.2017
(32) 20.12.2012	(21) EP18876057.3	(54) ALL-SOLID-STATE BATTERY
(33) United States of America	(47) 09.02.2022	(73) Panasonic Intellectual Property Management Co., Ltd.
(51) H01L 51/52	(87) KR2018013671	(72) HASEGAWA, Kenta
(11) EP3174119	16.05.2019	KUROMIYA, Takao
(21) EP16201030.0	(22) 09.11.2018	(31) 2017018891
(47) 09.02.2022	(54) STRIP-SHAPED ELECTRODE USED FOR CYLINDRICAL JELLY ROLL AND LITHIUM SECONDARY BATTERY COMPRISING SAME	(32) 03.02.2017
(22) 29.11.2016	(73) LG Energy Solution Ltd.	(33) Japan
(54) ORGANIC EMITTING DIODE AND ORGANIC LIGHT EMITTING DIODE DISPLAY DEVICE INCLUDING THE SAME	(72) AHN, Byoung-Hoon	(51) H01M 8/04313
(73) LG Display Co., Ltd.	CHOY, Sang-Hoon	H01M 8/247
(72) LEE, Hak-Min	YANG, Jung-Min	H01M 8/248
KIM, Hee-Jin	(31) 20170148955	(11) EP3680972
PARK, Sung-Soo	(32) 09.11.2017	(21) EP19787717.8
(31) 20150169502	(33) Korea (Republic)	(47) 09.02.2022
(32) 30.11.2015	(51) H01M 4/133	(87) KR2019003438
(33) Korea (Republic)	H01M 4/587	24.10.2019
(51) H01L 51/52	H01M 4/62	(22) 25.03.2019
B29C 70/86	H01M 10/052	(54) APPARATUS FOR EVALUATING PERFORMANCE OF FUEL CELL STACK
B29C 65/48	H01M 4/02	(73) LG CHEM, LTD.
B29C 65/00	H01M 4/04	(72) KIM, Daehwan
B29C 70/46	H01M 10/0525	CHOI, Kwangwook
F01D 5/28	(11) EP3471175	PARK, Sun Young
B29L 31/08	(21) EP18208317.0	PARK, Sanghyun
B29K 705/00	(47) 09.02.2022	PARK, Kwangyeon
(11) EP3776682	(22) 26.11.2018	SHIN, Cheolju
(21) EP19718436.9	(54) NEGATIVE ELECTRODE PLATE AND SECONDARY BATTERY COMPRISING THE SAME	HEO, Yeonhyuk
(47) 09.02.2022	(73) Contemporary Amperex Technology Co., Limited	(31) 20180044319
(87) FR2019050640	(72) SHEN, Yuliang	(32) 17.04.2018
03.10.2019	WANG, Jiazheng	(33) Korea (Republic)
(22) 20.03.2019	KANG, Meng	(51) H01M 10/04
(54) METHOD OF MANUFACTURING A COMPOSITE BLADE WITH A METALLIC LEADING EDGE FOR A GAS TURBINE	HE, Libing	H01M 10/0583
(73) SAFRAN	PENG, Tianquan	(11) EP3573166
(72) PICON, Romain	(31) 201810469061	(21) EP19180776.7
FARRANDS, Maximilien	(32) 16.05.2018	(47) 09.02.2022
BLANQUART, Magalie	(33) China	(22) 19.09.2016
(31) 1852675	(51) H01M 4/36	(54) ELECTRODE ASSEMBLY
(32) 28.03.2018	H01M 4/48	(73) NS Co., Ltd.
(33) France	H01M 14/00	(72) Lee, Han Woong
(51) H01M 4/02	H01M 16/00	Lee, See Yong
H01M 10/36	(11) EP2645459	Jun, Sung Jin
(11) EP3376578	(21) EP13157995.5	(31) 20160097313
(21) EP17188755.7	(47) 09.02.2022	20160097312
(47) 09.02.2022	(22) 06.03.2013	20160041212
(22) 31.08.2017	(54) Substrate and secondary battery	20160040466
	(73) Toshiba Materials Co., Ltd.	(32) 29.07.2016
	Kabushiki Kaisha Toshiba	29.07.2016
		04.04.2016
		01.04.2016
		(33) Korea (Republic)
		Korea (Republic)

Korea (Republic)	(22) 15.09.2016	KADDARA, Youness
Korea (Republic)	(54) ANTENNA ON PROTRUSION OF	(31) 1908630
(51) H01M 10/48	MULTI-LAYER CERAMIC-BASED	(32) 29.07.2019
(11) EP3367494	STRUCTURE	(33) France
(21) EP18156584.7	(73) Sony Group Corporation	(51) H01Q 19/06
(47) 09.02.2022	(72) YING, Zhinong	H01Q 19/08
(22) 13.02.2018	(51) H01Q 1/24	G01S 13/93
(54) BATTERY MODULE	H01Q 1/50	G01S 7/03
(73) Contemporary Amperex Technology Co.,	H01R 12/71	H01Q 1/52
Limited	H05K 1/02	H01Q 15/08
(72) WANG, Juan	(11) EP3128607	H01Q 1/32
MA, Lin	(21) EP16182771.2	H01Q 1/42
QIN, Feng	(47) 09.02.2022	H01Q 21/06
YOU, Zhiyi	(22) 04.08.2016	G01S 7/02
ZHANG, Jie	(54) ANTENNA FOR DEVICE	G01S 13/931
XIAO, Xinfu	(73) Samsung Electronics Co., Ltd.	(11) EP3264530
(31) 201710112115	(72) Yu, Ji Heon	(21) EP16755671.1
(32) 28.02.2017	Lee, Cheol Ho	(47) 09.02.2022
(33) China	Chung, Il Hyung	(87) JP2016055751
(51) H01M 50/449	Kim, Dae Woong	01.09.2016
H01M 50/409	(31) 20150110070	(22) 26.02.2016
H01M 10/052	(32) 04.08.2015	(54) ANTENNA APPARATUS
(11) EP3522260	(33) Korea (Republic)	(73) Furukawa Automotive Systems Inc.
(21) EP18838172.7	(51) H01Q 1/24	Furukawa Electric Co., Ltd.
(47) 09.02.2022	H01Q 21/00	(72) NAGATA, Masayuki
(87) KR2018008357	H01Q 21/06	INOUE, Daisuke
31.01.2019	H01Q 21/28	(31) 2015037828
(22) 24.07.2018	H01Q 21/29	(32) 27.02.2015
(54) BATTERY SEPARATOR	(11) EP3460905	(33) Japan
COMPRISING MATERIAL REDUCING	(21) EP17192469.9	(51) H01R 4/62
HYDROFLUORIC ACID	(47) 09.02.2022	H01R 13/03
(73) LG Energy Solution Ltd.	(22) 21.09.2017	H01R 4/02
(72) LEE, Je An	(54) MULTIPLE BAND ANTENNA	H01R 11/12
KIM, Min Hyung	(73) Alcatel- Lucent Shanghai Bell Co., Ltd	H01B 1/02
NAM, Kwan Woo	(72) DAUGUET, Stephane	(11) EP3766134
KIM, Min Ji	COQUILLE, Gilles	(21) EP19711567.8
GU, Min Ji	CHAINON, Sebastien	(47) 09.02.2022
(31) 20170094377	HILARY, Aurelien	(87) EP2019056390
(32) 25.07.2017	(51) H01Q 1/38	03.10.2019
(33) Korea (Republic)	H01Q 21/06	(22) 14.03.2019
(51) H01P 1/161	H01Q 23/00	(54) METHOD FOR CONNECTING
H01P 1/17	H05K 1/14	TWO CONDUCTORS COMPOSED
(11) EP3098899	H05K 3/28	OF DIFFERENT MATERIALS,
(21) EP16171283.1	H01Q 1/22	AND CONNECTOR AND SYSTEM
(47) 09.02.2022	H01Q 9/04	THEREFOR
(22) 25.05.2016	(11) EP3561953	(73) Wobben Properties GmbH
(54) PARTIAL DIELECTRIC LOADED	(21) EP17882668.1	(72) KÖHLER, Jan-Phillip
SEPTUM POLARIZER	(47) 09.02.2022	WILLMS, Arne
(73) ViaSat Inc.	(87) JP2017043057	(31) 102018107485
(72) VOSS, John Daniel	28.06.2018	(32) 28.03.2018
JENSEN, Anders	(22) 30.11.2017	(33) Germany
RUNYON, Donald Lawson	(54) ANTENNA MODULE	(51) H01R 9/24
(31) 201514723272	(73) Kyocera Corporation	(11) EP3281252
(32) 27.05.2015	(72) SAKURAI, Keizou	(21) EP16714942.6
(33) United States of America	(31) 2016246226	(47) 09.02.2022
(51) H01Q 1/22	(32) 20.12.2016	(87) EP2016057715
H01Q 1/24	(33) Japan	13.10.2016
H01Q 9/04	(51) H01Q 1/42	(22) 08.04.2016
H01Q 9/28	(11) EP3772133	(54) HONEYCOMB COMPONENT
H01Q 13/10	(21) EP20188061.4	(73) Phoenix Contact GmbH & Co. KG
H01Q 21/30	(47) 09.02.2022	(72) SCHÄFER, Alexander
H01Q 21/28	(22) 28.07.2020	WILLEMS, Marcel
H01Q 21/20	(54) PROTECTION DEVICE FOR LIDAR OF	HOPPMANN, Ralph
(11) EP3513452	A MOTOR VEHICLE	(31) 102015105546
(21) EP16766296.4	(73) Compagnie Plastic Omnium SE	(32) 10.04.2015
(47) 09.02.2022	(72) STABLO, Frédéric	(33) Germany
(87) EP2016071849	DUBOST, Elise	(51) H01R 11/28
22.03.2018	VIDAL, Sophie	H01R 13/58

H01R 13/447	H01R 13/64	(51) H01R 13/74
(11) EP3649702	F04B 45/047	H01R 13/506
(21) EP18749138.6	(11) EP3611806	H01R 13/52
(47) 09.02.2022	(21) EP19214555.5	H01R 13/631
(87) IB2018054922	(47) 09.02.2022	(11) EP3852207
10.01.2019	(22) 09.12.2019	(21) EP20217559.2
(22) 03.07.2018	(54) ADAPTER AND VACUUM SYSTEM	(47) 09.02.2022
(54) COVERING ELEMENT FOR AN	(73) PFEIFFER VACUUM GMBH	(22) 29.12.2020
ALTERNATOR POLE	(72) Böttcher, Jochen	(54) ARRANGEMENT COMPRISING A
(73) Brescianini, Davide	(51) H01R 13/58	CONNECTOR AND A WALL PART TO
(72) Brescianini, Davide	H01R 13/506	WHICH THE CONNECTOR IS FIXED
(31) 201700075174	H01R 13/52	(73) Yazaki Corporation
(32) 05.07.2017	(11) EP3570387	(72) SEKINO, Tetsuya
(33) Italy	(21) EP18172626.6	(31) 2020004221
(51) H01R 13/03	(47) 09.02.2022	(32) 15.01.2020
H01R 43/16	(22) 16.05.2018	(33) Japan
H01R 24/60	(54) CABLE CONNECTION SYSTEM WITH	(51) H01R 24/62
H01R 43/24	CABLE FIXATION SHELL	H01R 25/00
(11) EP3664224	(73) Aptiv Technologies Limited	H01R 12/71
(21) EP17926015.3	(72) LESNIAK, Pawel	H01R 107/00
(47) 09.02.2022	ZIEMBA, Robert	H01R 13/24
(87) CN2017102505	(51) H01R 13/627	H01R 13/66
28.03.2019	H01R 13/641	(11) EP3384564
(22) 20.09.2017	H01R 13/639	(21) EP16871727.0
(54) ELECTRICAL CONNECTOR AND	(11) EP3651285	(47) 09.02.2022
MOBILE TERMINAL	(21) EP19207486.2	(87) US2016064990
(73) Huawei Technologies Co., Ltd.	(47) 09.02.2022	08.06.2017
(72) LEI, Gaobing	(22) 06.11.2019	(22) 05.12.2016
HU, Suining	(54) FITTING CONNECTOR	(54) DISPOSABLE ELECTRICAL
SU, Tien Chieh	(73) YAZAKI CORPORATION	CONNECTOR HAVING A PRINTED
ZHANG, Shihao	(72) TANAKA, Yasuhiro	CIRCUIT BOARD
(51) H01R 13/436	HAYASAKA, Noboru	(73) Smiths Interconnect Americas, Inc.
H01R 13/506	Shibata, Shotaro	(72) NANIA, Francesco A.
(11) EP3408896	(31) 2018211121	SHINDER-LERNER, Arkady
(21) EP17702691.1	(32) 09.11.2018	(31) 201662310490 P
(47) 09.02.2022	(33) Japan	201562263509 P
(87) IB2017050395	(51) H01R 13/627	(32) 18.03.2016
03.08.2017	H01R 43/26	04.12.2015
(22) 25.01.2017	H01R 13/74	(33) United States of America
(54) ERGONOMIC TERMINAL POSITION	(11) EP3644453	United States of America
ASSURANCE MEMBER	(21) EP19205007.8	(51) H01R 31/06
(73) TE Connectivity Corporation	(47) 09.02.2022	B62M 6/90
(72) DUSCHA, Kevin John	(22) 24.10.2019	(11) EP3503313
FAROLE, Dominic Anthony	(54) CONNECTOR FIXTURE	(21) EP17208973.2
MARTIN, Galen M.	(73) Kitagawa Industries Co., Ltd.	(47) 09.02.2022
(31) 201715412490	(72) YANASE, Yoshiaki	(22) 20.12.2017
201662288534 P	(31) 2018200072	(54) MULTI-BATTERY ADAPTER FOR
(32) 23.01.2017	(32) 24.10.2018	ESTABLISHING AN ELECTRICAL
29.01.2016	(33) Japan	CONNECTION BETWEEN AT LEAST
(33) United States of America	(51) H01R 13/6463	TWO TRACTION BATTERIES ON THE
United States of America	H01R 13/514	ONE HAND AND A DRIVE UNIT OF
(51) H01R 13/436	H01R 13/518	AN ELECTRICAL BICYCLE ON THE
H01R 24/60	H01R 13/6591	OTHER
(11) EP3487010	(11) EP2875554	(73) Amprio GmbH
(21) EP17192834.4	(21) EP13822681.6	(72) GREVEN, Dietmar
(47) 09.02.2022	(47) 09.02.2022	BAUMANN, Alexander
(22) 17.11.2017	(87) US2013051685	KRILL, Thorsten
(54) ELECTRICAL CONNECTOR	30.01.2014	(51) H01R 43/28
(73) Aptiv Technologies Limited	(22) 23.07.2013	H01R 4/70
(72) VENKATESAN, Sathishkumar	(54) ELECTRICAL HARNESS CONNECTOR	H01R 43/00
GANESAN, Uvaraj	SYSTEM WITH DIFFERENTIAL PAIR	H01R 4/18
VELLAICHAMY, Venmaniraja	CONNECTION LINK	(11) EP3745424
SHANMUGAM, Thulasiraman	(73) Molex, LLC	(21) EP19760556.1
URBANIYAK, Andreas	(72) GARDNER, Michael J.	(47) 09.02.2022
POSMIK, Mirko	(31) 201261674466 P	(87) JP2019006011
(51) H01R 13/447	(32) 23.07.2012	06.09.2019
H01R 31/06	(33) United States of America	(22) 19.02.2019
F04D 19/04		

- (54) ELECTRIC WIRE, ELECTRIC WIRE WITH TERMINAL, HARNESS, METHOD FOR MANUFACTURING ELECTRIC WIRE, AND METHOD FOR MANUFACTURING ELECTRIC WIRE WITH TERMINAL  
(73) Japan Aviation Electronics Industry, Ltd.  
(72) TERAMOTO, Takaichi  
SATO, Kazuomi  
NAKAMURA, Hayato  
YAMAZAKI, Kenji  
KAMEDA, Kenji  
(31) 2018037952  
(32) 02.03.2018  
(33) Japan
- 
- (51) H01S 5/183  
H01S 5/06  
G01N 21/47  
H01S 5/04  
G01N 21/39  
H01S 5/0687  
(11) EP2878048  
(21) EP13823419.0  
(47) 09.02.2022  
(87) US2013052411  
30.01.2014  
(22) 26.07.2013  
(54) AMPLIFIED WIDELY TUNABLE SHORT CAVITY LASER  
(73) Praevium Research, Inc.  
Thorlabs, Inc.  
(72) POTSAID, Benjamin, Michael  
JAYARAMAN, Vijaysekhar  
CABLE, Alex, Ezra  
(31) 201261676712 P  
(32) 27.07.2012  
(33) United States of America
- 
- (51) H01T 1/14  
H01T 2/02  
H01T 4/14  
(11) EP3759774  
(21) EP19805649.1  
(47) 09.02.2022  
(87) EP2019081586  
23.07.2020  
(22) 18.11.2019  
(54) OVERVOLTAGE PROTECTION ARRANGEMENT WITH A HORN SPARK GAP, LOCATED IN A HOUSING, WITH A CHAMBER FOR ARC QUENCHING  
(73) DEHN SE + Co KG  
(72) ZAHLMANN, Peter  
BROCKE, Ralph  
EHRHARDT, Arnd  
(31) 102019101212  
(32) 17.01.2019  
(33) Germany
- 
- (51) H02B 1/36  
(11) EP3561975  
(21) EP19167073.6  
(47) 09.02.2022  
(22) 03.04.2019  
(54) BASE MODULE FOR WITHDRAWABLE SWITCH  
(73) ABB S.p.A.  
(72) ZHOU, Qi  
REN, Jiancheng  
YE, Yanfang
- (31) 201820611268 U  
(32) 26.04.2018  
(33) China
- 
- (51) H02G 1/08  
G02B 6/44  
(11) EP3235083  
(21) EP15817997.8  
(47) 09.02.2022  
(87) FR2015053422  
23.06.2016  
(22) 10.12.2015  
(54) SPECIAL END PIECE FOR A NEEDLE INTENDED TO BE PUSHED INTO A SHEATH OCCUPIED BY CABLES  
(73) ORANGE  
(72) LISSILLOUR, Françoise  
LECOQ, Daniel  
CAMPION, Jean-Luc  
(31) 1462812  
(32) 18.12.2014  
(33) France
- 
- (51) H02G 1/12  
(11) EP2871734  
(21) EP13192378.1  
(47) 09.02.2022  
(22) 11.11.2013  
(54) Device for removing an inner sheath of the electrical conductors in a cable  
(73) Schleuniger AG  
(72) Messina, Carmelo  
Alvarez, Sergio  
Meierhans, Ivo  
Knuchel, Walter
- 
- (51) H02G 1/12  
H01R 43/28  
(11) EP3692613  
(21) EP18792502.9  
(47) 09.02.2022  
(87) IB2018057607  
11.04.2019  
(22) 01.10.2018  
(54) WIRE PREPARATION DEVICE  
(73) TE Connectivity Corporation  
(72) WEAVER, Brian Keith  
(31) 201715722281  
(32) 02.10.2017  
(33) United States of America
- 
- (51) H02G 3/04  
H02G 3/00  
(11) EP3703205  
(21) EP20159122.9  
(47) 09.02.2022  
(22) 24.02.2020  
(54) CABLE CONCEALING DEVICE  
(73) Dupont, Hervé  
(72) Dupont, Hervé  
(31) 1902151  
(32) 01.03.2019  
(33) France
- 
- (51) H02G 3/08  
H02G 3/22  
H02B 1/00  
(11) EP3716427  
(21) EP20161818.8  
(47) 09.02.2022  
(22) 09.03.2020
- (54) FLANGE PLATE FOR MOUNTING IN AN OPENING IN A HOUSING WALL  
(73) Rittal GmbH & Co. KG  
(72) Lotz, Manuel  
Otterbach, Christoph  
(31) 202019101790 U  
(32) 29.03.2019  
(33) Germany
- 
- (51) H02G 9/02  
B66B 5/00  
B66B 1/50  
H01H 13/06  
H01H 13/86  
H01H 21/18  
H02G 3/08  
H02G 9/10  
H01H 13/704  
(11) EP3817169  
(21) EP19205605.9  
(47) 09.02.2022  
(22) 28.10.2019  
(54) INSPECTION STATION  
(73) KONE Corporation  
(72) Vaskela, Mikko  
Aitamurto, Juha-Matti  
Korpela, Jukka
- 
- (51) H02H 3/04  
G01R 31/08  
H02H 3/16  
H02H 7/26  
(11) EP3723220  
(21) EP19167786.3  
(47) 09.02.2022  
(22) 08.04.2019  
(54) DETECTION OF AN EARTH FAULT IN A DC NETWORK  
(73) Siemens Aktiengesellschaft  
(72) Weis, Benno  
Schierling, Hubert
- 
- (51) H02H 7/26  
H02H 3/30  
H02H 7/122  
H02H 7/28  
(11) EP3507877  
(21) EP17771486.2  
(47) 09.02.2022  
(87) FR2017052306  
08.03.2018  
(22) 30.08.2017  
(54) METHOD FOR CONTROLLING AN INSTALLATION ALLOWING DC CURRENT TO BE TRANSMITTED IN A NETWORK WHILE PROTECTING SAID NETWORK FROM A SHORT CIRCUIT FAULT  
(73) Supergrid Institute  
Université Grenoble Alpes  
(72) RAISON, Bertrand  
LOUME, Dieynaba  
BERTINATO, Alberto  
(31) 1658165  
(32) 02.09.2016  
(33) France
- 
- (51) H02J 1/10  
G06F 1/30  
H02J 7/34  
G06F 11/20  
B60W 50/029

(11) EP3648277	(54) METHOD OF OPERATING A SINGLE-PHASE GENERATOR IN PARALLEL WITH AN INVERTER	(73) CRRC Qingdao Sifang Rolling Stock Research Institute Co., Ltd.
(21) EP18203854.7	(72) TESCH, Tod, R.	(72) WANG, Yu
(47) 09.02.2022	(73) Generac Power Systems, Inc.	LI, Bo
(22) 31.10.2018	(31) 201314138371	WANG, Shen
(54) ELECTRONIC CIRCUIT FOR REDUNDANT SUPPLY OF AN ELECTRIC LOAD	(32) 23.12.2013	ZHAO, Junbo
(73) Aptiv Technologies Limited	(33) United States of America	LI, Meiyun
(72) Heinrich, Markus	(51) H02J 3/38	ZHANG, Bo
(51) H02J 1/10	F03D 7/04	ZHU, Zhenzong
H02J 7/34	H02J 3/00	SUN, Qingwen
H02J 9/06	F03D 9/25	MAO, Yongjie
H02P 29/02	(11) EP3440756	JI, Wendong
B60L 1/00	(21) EP17716172.6	(31) 201811276033
F16C 32/06	(47) 09.02.2022	(32) 30.10.2018
(11) EP2843784	(87) EP2017058082	(33) China
(21) EP14177823.3	12.10.2017	(51) H02J 7/00
(47) 09.02.2022	(22) 05.04.2017	B60R 11/02
(22) 21.07.2014	(54) METHOD, WIND TURBINE, AND WIND PARK WITH SEVERAL WIND TURBINES FOR FEEDING ELECTRIC POWER	F16M 13/02
(54) Drive circuit for air bearing motors	(73) Wobben Properties GmbH	H02J 50/10
(73) Liebherr-Elektronik GmbH	(72) BROMBACH, Johannes	H04B 1/3877
(72) Cremer, Dr.-Ing. Ralf	(31) 102016106215	H04M 1/04
Mahdavi, Dr.-Ing. Nejat	(32) 05.04.2016	(11) EP3675317
Brodeau, Pierre	(33) Germany	(21) EP19214118.2
(31) 102013014427	(51) H02J 3/38	(47) 09.02.2022
(32) 30.08.2013	H02J 3/42	(22) 06.12.2019
(33) Germany	(11) EP3714522	(54) INDUCTIVE CHARGER WITH ROTATABLE MAGNETIC MOUNT
(51) H02J 3/00	(21) EP17811227.2	(73) Scosche Industries, Inc.
H02J 3/38	(47) 09.02.2022	(72) ALVES, Kasidy
H02J 13/00	(87) EP2017080143	(31) 201916238379
(11) EP3514908	31.05.2019	201862787154 P
(21) EP18173698.4	(22) 23.11.2017	(32) 02.01.2019
(47) 09.02.2022	(54) MICROGRID CONTROL SYSTEM AND METHOD THEREOF	31.12.2018
(22) 22.05.2018	(73) ABB Schweiz AG	(33) United States of America
(54) METHODS AND DEVICES FOR CONDITION CLASSIFICATION OF POWER NETWORK ASSETS	(72) Hitachi Energy Switzerland AG	United States of America
(73) Hitachi Energy Switzerland AG	(72) MAJUMDER, Ritwik	(51) H02J 7/00
(72) Cheim, Luiz	(51) H02J 3/38	H01M 10/42
(31) 201862620076 P	H02J 3/46	G01R 31/327
(32) 22.01.2018	H02J 3/48	B60L 3/00
(33) United States of America	(11) EP3376626	B60L 50/50
(51) H02J 3/01	(21) EP17160518.1	B60K 6/28
H02J 3/24	(47) 09.02.2022	(11) EP3588731
H02J 3/38	(22) 13.03.2017	(21) EP18858054.2
(11) EP3386057	(54) METHOD FOR CONTROLLING THE POWER OUTPUT OF A WIND FARM AND CORRESPONDING WIND FARM	(47) 09.02.2022
(21) EP18165929.3	(73) Nordex Energy SE & Co. KG	(87) KR2018010377
(47) 09.02.2022	(72) Drossel, Detlef	28.03.2019
(22) 05.04.2018	Bode, Florian	(22) 05.09.2018
(54) WIND ENERGY SYSTEM	(51) H02J 3/40	(54) BATTERY MANAGEMENT APPARATUS, AND BATTERY PACK AND AUTOMOBILE INCLUDING SAME
(73) Siemens Gamesa Renewable Energy Service GmbH	B60L 15/38	(73) LG Energy Solution Ltd.
(72) Letas, Heinz-Hermann	B60L 9/24	(72) CHOI, Yang-Lim
(31) 102017003375	B60L 50/53	YU, Seon-Uk
(32) 06.04.2017	(11) EP3813219	SONG, Hyeon-Jin
(33) Germany	(21) EP19841890.7	(31) 20170123460
(51) H02J 3/32	(47) 09.02.2022	(32) 25.09.2017
H02P 9/04	(87) CN2019102520	(33) Korea (Republic)
H02J 9/06	30.01.2020	(51) H02J 7/00
H02J 3/08	(22) 26.08.2019	H02J 7/14
H02P 25/04	(54) MULTIPLE UNIT PARALLEL AUXILIARY CONVERTER SYNCHRONOUS SOFT STARTUP NETWORKING CONTROL STRATEGY	B60W 10/24
(11) EP3087666	(21) EP19841890.7	B60L 1/00
(21) EP14873732.3	(47) 09.02.2022	B60L 50/50
(47) 09.02.2022	(87) CN2019102520	(11) EP2518858
(87) US2014056474	30.01.2020	(21) EP10839772.0
02.07.2015	(22) 26.08.2019	(47) 09.02.2022
(22) 19.09.2014	(54) MULTIPLE UNIT PARALLEL AUXILIARY CONVERTER SYNCHRONOUS SOFT STARTUP NETWORKING CONTROL STRATEGY	(87) KR2010009203
		30.06.2011
		(22) 22.12.2010

(54) POWER-CONVERTING APPARATUS FOR HYBRID VEHICLES	LI, Yanhui	(87) JP2019011359
(73) Hyundai Doosan Infracore Co., Ltd.	(31) 201810079503	03.10.2019
(72) KIM, Choon Tack	(32) 26.01.2018	(22) 19.03.2019
PARK, Cheol Gyu	(33) China	(54) STATOR FOR DYNAMO-ELECTRIC MACHINES, AND METHOD FOR MANUFACTURING STATOR FOR DYNAMO-ELECTRIC MACHINES
(31) 20090130341	(51) H02K 1/27	(73) AISIN AW CO., LTD.
(32) 24.12.2009	H02K 1/24	(72) KOBUCHI, Takahiro
(33) Korea (Republic)	H02K 29/03	FUNAYAMA, Tetsuya
(51) H02J 50/00	(11) EP3685492	KATAYAMA, Shinya
H02J 7/00	(21) EP18765436.3	SUGIHARA, Tomotsugu
B60L 53/124	(47) 09.02.2022	KOGA, Kiyotaka
B60L 53/30	(87) EP2018073804	(31) 2018144375
H05K 5/00	21.03.2019	2018059004
H02J 7/02	(22) 05.09.2018	(32) 31.07.2018
H01F 38/14	(54) ISTHMI FOR THE MAGNETIC BRIDGES OF AN ELECTRIC MACHINE ROTOR	26.03.2018
H02J 50/60	(73) Mavel EDT S.p.A.	(33) Japan
H02J 50/12	(72) DIB, Wissam	Japan
(11) EP3249783	BOISSON, Julien	(51) H02K 3/52
(21) EP16740053.0	BETTONI, Davide	H02K 15/12
(47) 09.02.2022	ABDELLI, Abdenour	H02K 15/095
(87) JP2016050980	VALIN, Thomas	H02K 15/00
28.07.2016	GAUSSENS, Benjamin	(11) EP2733826
(22) 14.01.2016	FAVRE, Luca	(21) EP13191772.6
(54) POWER TRANSMISSION SYSTEM, FOREIGN MATTER DETECTION DEVICE, AND COIL DEVICE	(31) 1758620	(47) 09.02.2022
(73) IHI Corporation	(32) 18.09.2017	(22) 06.11.2013
(72) FURIYA Kentarou	(33) France	(54) SPLIT-CORE TYPE MOTOR AND METHOD OF MANUFACTURING ARMATURE OF SPLIT-CORE TYPE MOTOR
ASANO Atsushi	(51) H02K 3/18	(73) Sanyo Denki Co., Ltd.
GOTO Masahiko	H02K 9/00	(72) Koichi, Shintarou
ARAKI Jun	(11) EP3588746	Matsuhashi, Kenta
(31) 2015050347	(21) EP18756722.7	Takeda, Tooru
2015007558	(47) 09.02.2022	(31) 2012251487
(32) 13.03.2015	(87) JP2018004535	(32) 15.11.2012
19.01.2015	30.08.2018	(33) Japan
(33) Japan	(22) 09.02.2018	(51) H02K 5/22
Japan	(54) MOTOR	H02K 11/33
(51) H02K 1/20	(73) Panasonic Intellectual Property Management Co., Ltd.	H02K 3/50
H02K 1/32	(72) NUKADA Keiichiro	B60S 1/26
H02K 15/00	YAMAUCHI Hirokazu	H02K 7/116
H02K 15/02	HISHIDA Mitsuo	F16H 1/32
H02K 1/14	YOSHIKAWA Yuichi	H02K 3/52
H02K 7/18	KATO Yasushi	(11) EP3480926
(11) EP3771073	(31) 2017030159	(21) EP18212996.5
(21) EP19382641.9	(32) 21.02.2017	(47) 09.02.2022
(47) 09.02.2022	(33) Japan	(22) 12.04.2016
(22) 26.07.2019	(51) H02K 3/30	(54) MOTOR WITH SPEED REDUCER, AND REAR WIPER MOTOR
(54) ELECTROMAGNETIC MODULES OF ELECTRICAL MACHINES	H02K 3/32	(73) Mitsuba Corporation
(73) General Electric Renovables España S.L.	H02K 3/34	(72) TOKIZAKI, Teppei
(72) MUÑIZ CASALS, César	H02K 9/22	TAMURA, Satoshi
RAMTAHAL, Sadeo	(11) EP2879276	TANAKA, Hiroto
URRESTY, Julio César	(21) EP13195082.6	TAMURA, Natsumi
(51) H02K 1/22	(47) 09.02.2022	(31) 2015081793
H02K 15/02	(22) 29.11.2013	2015081792
(11) EP3637586	(54) Rotating machine with improved cooling	(32) 13.04.2015
(21) EP19744171.0	(73) GE Renewable Technologies	13.04.2015
(47) 09.02.2022	(72) Baumeister, Stefan	(33) Japan
(87) CN2019072309	Frutiger, Simon Andreas	Japan
01.08.2019	(51) H02K 3/34	(51) H02K 11/33
(22) 18.01.2019	H02K 3/04	(11) EP3474426
(54) ROTOR, MOTOR, REINFORCEMENT RING TOOL AND MOUNTING METHOD THEREFOR	H02K 3/30	(21) EP17197581.6
(73) Beijing Goldwind Science & Creation Windpower Equipment Co., Ltd.	H02K 15/085	(47) 09.02.2022
(72) YANG, Jingchao	H02K 15/12	(22) 20.10.2017
WANG, Dong	H02K 15/06	
	H02K 3/12	
	H02K 15/10	
	(11) EP3739726	
	(21) EP19776079.6	
	(47) 09.02.2022	

(54) INVERTER FOR AN ELECTRIC MACHINE COMPRISING A COOLING CHANNEL, ELECTRIC MACHINE FOR A VEHICLE AND VEHICLE	(22) 04.08.2017 (54) MOTOR (73) Nidec Corporation	(72) Freire, Nuno Miguel Amaral Hu, Yashan Wu, Zhan-Yuan
(73) Valeo Siemens eAutomotive Germany GmbH	(72) MAKINO, Yusuke (31) 2017041572 201662371342 P	(51) H02M 3/156 H02M 1/15 H02M 1/00 H03K 4/50
(72) BOHLLÄNDER, Marco	(32) 06.03.2017 05.08.2016	(11) EP3503393 (21) EP18212950.2 (47) 09.02.2022
(51) H02K 11/33 H02K 7/18 H02K 7/14	(33) Japan United States of America	(22) 17.12.2018 (54) SYSTEM AND METHOD FOR GENERATING A RIPPLE VOLTAGE FOR A RIPPLE BASED CONSTANT-ON-TIME DC-DC CONVERTER
(11) EP3672036 (21) EP19216342.6 (47) 09.02.2022	(51) H02K 33/18 H01F 7/11 H01F 7/13	(73) NXP B.V. (72) Chan, Shufan (31) 201715853308 (32) 22.12.2017 (33) United States of America
(22) 13.12.2019 (54) LIQUID-COOLED ENCLOSURE FOR TURBOCHARGER POWER MODULE	(11) EP2754232 (21) EP12740593.4 (47) 09.02.2022	(72) Chan, Shufan (31) 201715853308 (32) 22.12.2017 (33) United States of America
(73) BorgWarner Inc. (72) GARRARD, Tyler R. (31) 201862780701 P (32) 17.12.2018 (33) United States of America	(87) EP2012064777 14.03.2013 (22) 27.07.2012 (54) ACTUATOR (73) ContiTech Vibration Control GmbH	(51) H02M 3/335 H02M 1/36 H02M 1/32 H01M 10/44
(51) H02K 15/095 (11) EP3506469 (21) EP18212347.1 (47) 09.02.2022	(72) PREUSSLER, Stefan MARIENFELD, Peter-Michael KARKOSCH, Hans-Jürgen GENDERJAHN, Robert	(11) EP3565101 (21) EP17886387.4 (47) 09.02.2022 (87) KR2017014165 05.07.2018
(22) 13.12.2018 (54) COILING MACHINE	(31) 102011053289 (32) 06.09.2011 (33) Germany	(22) 05.12.2017 (54) SWITCHING CONTROL METHOD FOR ISOLATED BIDIRECTIONAL DC-DC CONVERTER
(73) Robert Bosch GmbH Aumann Espelkamp GmbH	(33) Germany	(73) Hyosung Heavy Industries Corporation (72) JEONG, Byung Hwan LEE, Jeong Min
(72) HAGEDORN, Jürgen BURGER, Timo HUBER, Michael MELCHERS, Michael	(31) 102017223859 (32) 28.12.2017 (33) Germany	(31) 20160184376 (32) 30.12.2016 (33) Korea (Republic)
(51) H02K 15/16 H02K 1/18 H02K 5/173 H02K 5/15 H02K 9/22 H02K 5/16	(54) DEVICE AND METHOD FOR USE IN ALTERNATING-VOLTAGE PULSE OUTPUT (73) Tsinghua University Nuctech Company Limited	(51) H02M 7/00 H02M 1/12 B67D 3/00 H01L 23/473 H01L 25/11 H02H 1/00 H05K 7/20
(11) EP3627672 (21) EP17922760.8 (47) 09.02.2022	(72) TANG, Chuanxiang YIN, Wei LIU, Jinsheng LIU, Yaohong YAN, Xinchui SHI, Hao JIA, Wei GAO, Jianjun LIU, Xiyang	(11) EP3540928 (21) EP18161349.8 (47) 09.02.2022 (22) 13.03.2018 (54) ELECTRICAL APPARATUS
(87) JP2017030591 28.02.2019 (22) 25.08.2017 (54) MOTOR ASSEMBLING METHOD, CENTERING JIG, AND ELECTRIC MOTOR	(31) 201110457579 (32) 31.12.2011 (33) China	(73) General Electric Technology GmbH (72) DAVIDSON, Colin Charnock
(73) Mitsubishi Heavy Industries Engine & Turbocharger, Ltd. (72) YAMASHITA, Yukio AN, Byeongil SHIBATA, Naomichi	(51) H02M 1/12 F03D 7/02 H02J 3/01 H02J 3/38 H02P 9/30 H02P 29/50 H02M 1/00	(51) H02M 7/48 G05F 1/70 H02J 3/26 H02M 7/483 H02J 3/18 H02M 1/00 H02M 1/32
(51) H02K 29/08 H02K 1/18 H02K 5/173 H02K 21/22 H02K 5/22 H02K 11/215 H02K 11/33	(11) EP3480931 (21) EP17200324.6 (47) 09.02.2022 (22) 07.11.2017 (54) HARMONIC CONTROL OF A CONVERTER (73) Siemens Gamesa Renewable Energy A/S	(11) EP3627684 (21) EP17910396.5 (47) 09.02.2022 (87) JP2017018521 22.11.2018 (22) 17.05.2017 (54) POWER CONVERSION DEVICE (73) Mitsubishi Electric Corporation
(11) EP3496248 (21) EP17837087.0 (47) 09.02.2022 (87) JP2017028367 08.02.2018		

Toshiba Mitsubishi-Electric Industrial Systems Corporation	(32) 09.11.2016	KILSGAARD, Soren
(72) FUJII, Toshiyuki	(33) France	(51) H03K 17/06
TSUCHIYA, Taichiro	(51) H02P 6/26	H03K 17/082
UDA, Ryosuke	H02P 25/04	(11) EP3579414
TAGUCHI, Hisanori	H02P 27/06	(21) EP19178356.2
OKUYAMA, Ryota	(11) EP3282575	(47) 09.02.2022
MUKUNOKI, Kaho	(21) EP16183727.3	(22) 05.06.2019
(51) H02M 7/483	(47) 09.02.2022	(54) A TRANSISTOR GATE DRIVER
H02M 7/487	(22) 11.08.2016	(73) Analog Devices International Unlimited Company
H02J 9/06	(54) A SINGLE PHASE MOTOR DRIVE CIRCUIT AND A METHOD OF DRIVING A SINGLE PHASE MOTOR	(72) LIANG, Chuen Tschii
(11) EP3609070	(73) Melexis Bulgaria Ltd.	SPALDING, George Redfield
(21) EP19189765.1	(72) NEDELEV, Petko	(31) 201816001501
(47) 09.02.2022	LEMAN, Dirk	(32) 06.06.2018
(22) 02.08.2019	(51) H02P 29/024	(33) United States of America
(54) HIGH EFFICIENCY FLEXIBLE CONVERTER	H02M 7/48	(51) H03K 17/082
(73) Schneider Electric IT Corporation	H02H 3/05	H03K 17/687
(72) Cheng, Puyang	H02H 7/08	(11) EP3104525
Xie, Jingwen	H01H 47/00	(21) EP14881471.8
Bao, Chenlei	H02H 3/20	(47) 09.02.2022
Zhang, Tongfei	H02H 3/24	(87) JP2014082357
(31) 201810902712	(11) EP3627686	13.08.2015
(32) 09.08.2018	(21) EP18803118.1	(22) 08.12.2014
(33) China	(47) 09.02.2022	(54) LOAD-DRIVING CIRCUIT
(51) H02N 2/18	(87) JP2018015782	(73) Hitachi Astemo, Ltd.
(11) EP3745584	22.11.2018	(72) KOBAYASHI Youichirou
(21) EP19216080.2	(22) 17.04.2018	SONEHARA Masahito
(47) 09.02.2022	(54) MOTOR DRIVE DEVICE	(31) 2014020903
(22) 13.12.2019	(73) Panasonic Intellectual Property Management Co., Ltd.	(32) 06.02.2014
(54) KINETIC ENERGY HARVESTER WITH ADJUSTABLE NATURAL FREQUENCY	(72) KISHIBE, Taro	(33) Japan
(73) Hahn-Schickard-Gesellschaft für angewandte Forschung e.V.	SHIMOGAKI, Yusuke	(51) H04B 1/10
(72) Esch, Jonas	HOSOKAWA, Tomoya	(11) EP3742620
(31) 102019114171	(31) 2017097340	(21) EP18907990.8
(32) 27.05.2019	(32) 16.05.2017	(47) 09.02.2022
(33) Germany	(33) Japan	(87) JP2018007332
(51) H02P 6/15	(51) H02P 29/024	06.09.2019
H02P 23/00	H02P 21/06	(22) 27.02.2018
H02P 6/08	H02P 21/22	(54) RADIO COMMUNICATION SYSTEM AND INTERFERENCE SUPPRESSION METHOD
(11) EP3509206	H02P 6/06	(73) Mitsubishi Electric Corporation
(21) EP17846410.3	B60L 15/20	(72) HIGASHINAKA, Masatsugu
(47) 09.02.2022	(11) EP3745589	TOMITSUKA, Koji
(87) JP2017030751	(21) EP18902474.8	SANO, Hiroyasu
08.03.2018	(47) 09.02.2022	(51) H04B 1/48
(22) 28.08.2017	(87) JP2018002494	H04B 1/52
(54) BRUSHLESS MOTOR AND CONTROL METHOD	01.08.2019	(11) EP3179636
(73) Mitsuba Corporation	(22) 26.01.2018	(21) EP16202968.0
(72) IKEDA Takeshi	(54) INVERTER CONTROL METHOD AND INVERTER CONTROL DEVICE	(47) 09.02.2022
(31) 2016170801	(73) NISSAN MOTOR CO., LTD.	(22) 08.12.2016
(32) 01.09.2016	(72) YOKOYAMA, Nobuaki	(54) METHOD FOR OPERATING SWITCH AND ELECTRONIC DEVICE SUPPORTING THE SAME
(33) Japan	(51) H03F 3/393	(73) Samsung Electronics Co., Ltd.
(51) H02P 6/16	H03F 3/45	(72) Yang, Dongil
H02P 6/20	(11) EP3232922	(31) 20150174878
(11) EP3322084	(21) EP14816246.4	(32) 09.12.2015
(21) EP17195321.9	(47) 09.02.2022	(33) Korea (Republic)
(47) 09.02.2022	(87) EP2014078651	(51) H04B 1/707
(22) 06.10.2017	23.06.2016	H04N 7/10
(54) METHOD FOR MONITORING THE STARTING OF A THREE-PHASE SYNCHRONOUS ELECTRIC MOTOR WITH NO COMMUTATOR	(22) 19.12.2014	H04N 21/436
(73) SEB S.A.	(54) AN ACTIVE ELECTRODE HAVING A CLOSED-LOOP UNIT-GAIN AMPLIFIER WITH CHOPPER MODULATION	(11) EP3353899
(72) COUTELLIER, Damien	(73) T&W Engineering A/S	(21) EP16847645.5
SCHMERBER, Louis	(72) ZHOU, Xiong	(47) 09.02.2022
(31) 1660873	KIDMOSE, Preben	(87) AU2016050880
	LI, Qiang	30.03.2017
		(22) 21.09.2016

(54) SYSTEM FOR TRANSPORTING SAMPLED SIGNALS OVER IMPERFECT ELECTROMAGNETIC PATHWAYS	SUNG, Jung-Oh LEE, Ju-Hyang PARK, Seho SONG, Keumsu JEON, Jae-Woong HA, Mincheol	(33) European Patent Office (EPO)
(73) hyPHY USA, Inc.	(31) 20150162128	(51) H04B 7/06
(72) RUBINE, Dean	(32) 18.11.2015	H04B 7/08
ROCKOFF, Todd	(33) Korea (Republic)	(11) EP3701638
HANNEBAUER, Rob	(51) H04B 7/04	(21) EP17793632.5
(31) 2015903845	H04J 11/00	(47) 09.02.2022
(32) 21.09.2015	H04W 4/00	(87) EP2017077671
(33) Australia	H04W 4/06	02.05.2019
(51) H04B 1/7105	(11) EP2777174	(22) 27.10.2017
H04B 1/709	(21) EP12848035.7	(54) TECHNIQUES FOR INTERFERENCE- AWARE BEAM PAIR SELECTION
(11) EP3791479	(47) 09.02.2022	(73) Huawei Technologies Co., Ltd.
(21) EP18836926.8	(87) KR2012009511	(72) LUO, Jian
(47) 09.02.2022	16.05.2013	STIRLING-GALLACHER, Richard
(87) JP2018047421	(22) 12.11.2012	CASTANEDA GARCIA, Mario Hernán
14.11.2019	(54) METHOD AND APPARATUS FOR TRANSMITTING SYSTEM	(51) H04B 7/08
(22) 18.12.2018	INFORMATION IN A MOBILE COMMUNICATION SYSTEM	(11) EP3516788
(54) COMMUNICATION SYSTEM, COMMUNICATION METHOD AND STORAGE MEDIUM	(73) Samsung Electronics Co., Ltd.	(21) EP17772587.6
(73) Mitsubishi Electric Corporation	(72) RO, Sang-Min	(47) 09.02.2022
(72) PAJOVIC, Milutin	JI, Hyoung-Ju	(87) US2017051811
ORLIK, Philip	CHO, Joon-Young	29.03.2018
(31) 201815977024	CHOI, Seung-Hoon	(22) 15.09.2017
(32) 11.05.2018	KIM, Young-Bum	(54) IMPLEMENTATION OF IMPROVED OMNI MODE SIGNAL RECEPTION
(33) United States of America	LEE, Ju-Ho	(73) QUALCOMM Incorporated
(51) H04B 1/7143	(31) 20120029385	(72) SORIN, Simha
(11) EP3349363	20110117863	LEVIANT, Michael
(21) EP16843667.3	(32) 22.03.2012	SANDEROVICH, Amichai
(47) 09.02.2022	11.11.2011	(31) 201615274819
(87) CN2016098456	(33) Korea (Republic)	(32) 23.09.2016
16.03.2017	Korea (Republic)	(33) United States of America
(22) 08.09.2016	(51) H04B 7/06	(51) H04B 7/185
(54) INFORMATION TRANSMISSION METHOD AND DEVICE	(11) EP3286848	(11) EP3506527
(73) ZTE Corporation	(21) EP15889450.1	(21) EP18215904.6
(72) DAI, Bo	(47) 09.02.2022	(47) 09.02.2022
XIA, Shuqiang	(87) CN2015076935	(22) 26.12.2018
LIU, Kun	27.10.2016	(54) METHOD FOR MANAGING A COMMUNICATION NETWORK AND ASSOCIATED COMMUNICATION NETWORK
HAN, Xianghui	(22) 20.04.2015	(73) Thales
CHEN, Xianming	(54) METHODS AND DEVICES FOR BROADCAST TRANSMISSION AND RECEPTION	(72) SOULIE, Antoine
SHI, Jing	(73) Telefonaktiebolaget LM Ericsson (publ)	DELATTRE, Michel
ZHANG, Wen	(72) LIU, Jinhua	CHEVALLIER, Michel
FANG, Huiying	LI, Gen	(31) 1701364
(31) 201510574535	(51) H04B 7/06	(32) 26.12.2017
(32) 10.09.2015	H04B 3/54	(33) France
(33) China	H04B 3/32	(51) H04B 7/185
(51) H04B 5/00	H04W 4/06	(11) EP3676972
H02J 7/02	(11) EP2979370	(21) EP18786074.7
H02J 50/40	(21) EP14708487.5	(47) 09.02.2022
H01F 38/14	(47) 09.02.2022	(87) US2018049403
H01F 41/061	(87) EP2014000584	20.06.2019
H02J 50/12	02.10.2014	(22) 04.09.2018
H02J 50/70	(22) 06.03.2014	(54) SATELLITE-BASED NARROW-BAND COMMUNICATION
(11) EP3379733	(54) COMMUNICATION DEVICE AND METHOD PROVIDING BEAMFORMING FOR TWO OR MORE TRANSMISSION CHANNELS	(73) Google LLC
(21) EP16866615.4	(73) Sony Group Corporation	(72) AKRAM, Aamir
(47) 09.02.2022	(72) SCHWAGER, Andreas	WANG, Jibing
(87) KR2016013084	SCHNEIDER, Daniel	STAUFFER, Erik Richard
26.05.2017	(31) 13001648	(31) 201762599522 P
(22) 14.11.2016	(32) 28.03.2013	(32) 15.12.2017
(54) ELECTRONIC DEVICE AND OPERATION METHOD THEREFOR		(33) United States of America
(73) Samsung Electronics Co., Ltd.		(51) H04B 7/185
(72) KIM, Dongzo		(11) EP3614578
KIM, Kwangseob		(21) EP19192684.9
KIM, Yusu		(47) 09.02.2022

(22) 20.08.2019	(73) Samsung Electronics Co., Ltd.	HUANG, Lingchen
(54) ACARS OVER IP SYSTEM FOR NON-SAFETY MESSAGES	(72) SUN, Yibin	(31) 201710184083
(73) Honeywell International Inc.	BAEK, Ingil	(32) 24.03.2017
(72) JUDD, Thomas D.	JEONG, Junhee	(33) China
REDMOND, Scott James	JUNG, Doyoung	(51) H04L 1/00
SCHASSLER, Justin	(31) 20170022946	H04L 27/34
MCGUFFIN, Thomas F.	(32) 21.02.2017	H04L 25/03
(31) 201816109474	(33) Korea (Republic)	(11) EP3732808
(32) 22.08.2018	(51) H04J 11/00	(21) EP17915202.0
(33) United States of America	H04B 7/26	(47) 09.02.2022
(51) H04B 10/516	H04W 24/10	(87) TR2017050718
H04B 10/54	H04W 52/00	04.07.2019
H04J 14/02	H04W 52/36	(22) 28.12.2017
H04B 10/61	(11) EP3487093	(54) METHOD FOR BLOCK CAPACITY
H04L 27/34	(21) EP18210171.7	EQUALIZATION AND OPTIMIZATION
H04L 27/38	(47) 09.02.2022	(73) Aselsan Elektronik Sanayi ve Ticaret
(11) EP3759843	(22) 12.10.2011	Anonim Sirketi
(21) EP19839146.8	(54) METHOD AND APPARATUS	(72) ATAК, O uzhan
(47) 09.02.2022	FOR DETERMINING MAXIMUM	(51) H04L 1/00
(87) IB2019061214	TRANSMISSION POWER	H04W 24/08
03.09.2020	PER CARRIER IN MOBILE	H04W 88/08
(22) 20.12.2019	COMMUNICATION SYSTEM	H04W 24/10
(54) PROBABILISTIC CONSTELLATION	SUPPORTING CARRIER	H04W 56/00
SHAPING ACROSS TIME AND	AGGREGATION	(11) EP3497829
FREQUENCY	(73) Samsung Electronics Co., Ltd.	(21) EP16912846.9
(73) Ciena Corporation	(72) KIM, Sang Bum	(47) 09.02.2022
(72) EBRAHIMZAD, Hamid	VAN LIESHOUT, Gert-Jan	(87) US2016046782
REIMER, Michael	KIM, Soeng Hun	15.02.2018
(31) 201916289429	JEONG, Kyeong In	(22) 12.08.2016
(32) 28.02.2019	(31) 20110097409	(54) LINK LATENCY AND SYSTEM
(33) United States of America	39243610 P	BEHAVIOR
(51) H04B 10/60	41049310 P	(73) Nokia Solutions and Networks Oy
H03K 17/78	(32) 27.09.2011	(72) AGARWAL, Tarun
H03F 3/08	12.10.2010	SPIOTTA, Mark
H04B 10/69	06.11.2010	PALKA, Dariusz
G01J 1/44	(33) Korea (Republic)	(51) H04L 1/16
H03K 17/94	United States of America	H04L 1/18
(11) EP3272038	United States of America	(11) EP3340516
(21) EP15900509.9	(51) H04L 1/00	(21) EP17198032.9
(47) 09.02.2022	(11) EP2912794	(47) 09.02.2022
(87) US2015043078	(21) EP13831972.8	(22) 15.09.2010
09.02.2017	(47) 09.02.2022	(54) SIGNALING PROCESSING METHOD,
(22) 31.07.2015	(87) IB2013059628	BASE STATION, AND USER
(54) OPTICAL RECEIVERS	01.05.2014	EQUIPMENT
(73) Hewlett Packard Enterprise Development LP	(22) 24.10.2013	(73) Huawei Technologies Co., Ltd.
(72) YU, Kunzhi	(54) DISTRIBUTED V-MIMO PROCESSING	(72) CHEN, Xiaobo
BEAUSOLEIL, Raymond G.	FOR COORDINATED MULTIPOINT	YANG, Ruina
FIORNTINO, Marco	RECEPTION	(31) 200910092683
LI, Cheng	(73) Telefonaktiebolaget LM Ericsson (publ)	(32) 15.09.2009
(51) H04B 17/309	(72) BOUDREAU, Gary David	(33) China
H04B 17/20	COMEAU, Adrien Joseph	(51) H04L 1/16
H04B 7/0408	(31) 201213661360	H04L 1/18
H04B 7/06	(32) 26.10.2012	H04L 5/00
H04B 7/08	(33) United States of America	H04W 72/12
H04L 1/00	(51) H04L 1/00	(11) EP3646500
H04W 72/04	(11) EP3457607	(21) EP17737072.3
(11) EP3573259	(21) EP18771407.6	(47) 09.02.2022
(21) EP17898198.1	(47) 09.02.2022	(87) SE2017050719
(47) 09.02.2022	(87) CN2018079947	03.01.2019
(87) KR2017002761	27.09.2018	(22) 28.06.2017
30.08.2018	(22) 22.03.2018	(54) OPERATION OF A USER EQUIPMENT
(22) 14.03.2017	(54) POLAR CODE RATE MATCHING	AND A RECEIVING RADIO NODE
(54) BASE STATION AND TERMINAL	METHOD AND DEVICE	BASED ON A HARQ CODEBOOK,
IN WIRELESS COMMUNICATION	(73) Huawei Technologies Co., Ltd.	CONFIGURED BY A CONFIGURING
SYSTEM, AND CONTROL METHOD	(72) XU, Chen	RADIO NODE
THEREFOR	ZHANG, Huazi	(73) Telefonaktiebolaget LM Ericsson (PUBL)
	ZHANG, Gongzheng	(72) BALDEMAIR, Robert
	LI, Rong	DAHLMAN, Erik

PARKVALL, Stefan	(11) EP3547589	H04L 1/00
ANDERSSON, Mattias	(21) EP18305352.9	H04L 1/08
(51) H04L 1/18	(47) 09.02.2022	H04W 48/12
(11) EP3503448	(22) 28.03.2018	(11) EP3534564
(21) EP17922070.2	(54) METHOD AND SYSTEM FOR	(21) EP19170315.6
(47) 09.02.2022	USER DISTRIBUTION TO SUB-	(47) 09.02.2022
(87) CN2017107873	BANDS IN MULTIPLE ACCESS	(22) 22.09.2014
02.05.2019	COMMUNICATIONS SYSTEMS	(54) COVERAGE ENHANCEMENTS OF
(22) 26.10.2017	(73) Institut Mines-Telecom	BROADCAST
(54) FEEDBACK RESPONSE INFORMATION	Universite Libanaise	(73) Samsung Electronics Co., Ltd.
TRANSMISSION METHOD AND	Universite Saint-Esprit de Kaslik	(72) Li, Ying
RELATED PRODUCT	(72) ABDEL NOUR, Charbel	Papasakellariou, Aris
(73) GUANGDONG OPPO MOBILE	DOUILLARD, Catherine	(31) 201414483938
TELECOMMUNICATIONS CORP., LTD.	HOJEIJ, Marie-Rita	201361889947 P
(72) LIN, Yanan	FARAH, Joumana	201361882417 P
(51) H04L 1/18	(51) H04L 5/00	201361880683 P
H04L 1/00	(11) EP3591887	201361880673 P
(11) EP3340720	(21) EP19193577.4	(32) 11.09.2014
(21) EP16866612.1	(47) 09.02.2022	11.10.2013
(47) 09.02.2022	(22) 09.11.2018	25.09.2013
(87) KR2016012997	(54) METHODS AND APPARATUSES	20.09.2013
26.05.2017	FOR COMMUNICATIONS BASED ON	20.09.2013
(22) 11.11.2016	WIRELESS DEVICE CAPABILITIES	(33) United States of America
(54) METHOD AND APPARATUS	(73) Beijing Xiaomi Mobile Software Co., Ltd.	United States of America
FOR TRANSMITTING DATA IN	(72) DINAN, Esmael	United States of America
WIRELESS COMMUNICATION	BABAEI, Alireza	United States of America
SYSTEM SUPPORTING CARRIER	ZHOU, Hua	United States of America
AGGREGATION	PARK, Kyungmin	(51) H04L 5/00
(73) Samsung Electronics Co., Ltd.	JEON, Hyoungsuk	H04L 1/16
(72) MAENG, Seungjoo	(31) 201762585801 P	(11) EP3687100
JANG, Chulhee	201762583654 P	(21) EP20163497.9
KWON, Eunhyun	(32) 14.11.2017	(47) 09.02.2022
KIM, Eunyong	09.11.2017	(22) 05.08.2009
(31) 20150162456	(33) United States of America	(54) METHOD AND APPARATUS FOR
(32) 19.11.2015	United States of America	TRANSMITTING AND RECEIVING
(33) Korea (Republic)	(51) H04L 5/00	AN UPLINK ACKNOWLEDGEMENT
(51) H04L 1/18	H04B 7/06	CHANNEL FOR A DOWNLINK
H04L 5/00	H04J 13/00	DATA CHANNEL IN A MOBILE
(11) EP3540997	H04L 1/06	COMMUNICATION SYSTEM USING
(21) EP17869480.8	H04W 72/04	ORTHOGONAL FREQUENCY DIVISION
(47) 09.02.2022	H04L 5/14	MULTIPLE ACCESS
(87) KR2017012767	H04L 27/26	(73) Samsung Electronics Co., Ltd.
17.05.2018	H04J 11/00	(72) Han, Jin Kyu
(22) 13.11.2017	H04L 1/00	Lee, Ju Ho
(54) METHOD FOR TRANSMITTING	(11) EP3566366	Yu, Jae Chon
UPLINK SIGNAL IN WIRELESS	(21) EP17832165.9	(31) 20080076343
COMMUNICATION SYSTEM AND	(47) 09.02.2022	(32) 05.08.2008
DEVICE THEREFOR	(87) US2017068331	(33) Korea (Republic)
(73) LG Electronics Inc.	12.07.2018	(51) H04L 5/00
(72) HWANG, Daesung	(22) 22.12.2017	H04L 1/18
YI, Yunjung	(54) MULTIPLEXING UPLINK	H04W 72/12
LEE, Hyunho	TRANSMISSIONS WITH TRANSMIT	(11) EP3562082
(31) 201762501727 P	DIVERSITY WITH SINGLE CARRIER	(21) EP17895221.4
201762474595 P	WAVEFORM	(47) 09.02.2022
201762454969 P	(73) QUALCOMM Incorporated	(87) CN2017114635
201662422071 P	(72) XU, Hao	09.08.2018
201662421276 P	CHEN, Wanshi	(22) 05.12.2017
(32) 04.05.2017	ZENG, Wei	(54) RESOURCE INDICATION METHOD,
21.03.2017	WANG, Renqiu	RESOURCE ACQUISITION METHOD
06.02.2017	GAAL, Peter	AND RELATED DEVICE
15.11.2016	HUANG, Yi	(73) Huawei Technologies Co., Ltd.
12.11.2016	(31) 201715850821	(72) GU, Feifei
(33) United States of America	201762443788 P	ZHANG, Xu
United States of America	(32) 21.12.2017	SUN, Hao
United States of America	08.01.2017	QU, Bingyu
United States of America	(33) United States of America	XUE, Lixia
United States of America	United States of America	(31) 201710064600
(51) H04L 5/00	(51) H04L 5/00	(32) 04.02.2017

(33) China	(21) EP20190581.7	(21) EP18778241.2
(51) H04L 5/00	(47) 09.02.2022	(47) 09.02.2022
H04L 5/14	(22) 18.05.2017	(87) CN2018080569
H04L 5/16	(54) METHOD AND APPARATUS FOR	04.10.2018
H04W 76/14	TRANSMISSION AND RECEPTION IN	(22) 26.03.2018
H04W 88/06	WIRELESS COMMUNICATION SYSTEM	(54) METHOD AND DEVICE FOR
(11) EP3723318	SUPPORTING SCALABLE FRAME	DETERMINING TRANSMISSION
(21) EP20166779.7	STRUCTURE	PARAMETERS AND STORAGE
(47) 09.02.2022	(73) Samsung Electronics Co., Ltd.	MEDIUM
(22) 30.03.2020	(72) Kwak, Yongjun	(73) ZTE Corporation
(54) METHOD AND DEVICE FOR	Kim, Younsun	(72) CHEN, Yijian
CONTROLLING A DATA	Kim, Youngbum	LU, Zhaohua
TRANSMISSION MODE USED BY A	(31) 20160061495	LI, Yu Ngok
VEHICLE FOR COMMUNICATING	(32) 19.05.2016	ZHANG, Shujuan
(73) ORANGE	(33) Korea (Republic)	(31) 201710185413
(72) KELIF, Jean-Marc	(51) H04L 5/00	(32) 25.03.2017
DIEGO MAZA, William David	H04L 27/26	(33) China
(31) 1903769	(11) EP3718234	(51) H04L 5/00
(32) 09.04.2019	(21) EP17809071.8	H04W 72/04
(33) France	(47) 09.02.2022	(11) EP3584984
(51) H04L 5/00	(87) SE2017051186	(21) EP19184845.6
H04L 5/14	06.06.2019	(47) 09.02.2022
H04L 27/26	(22) 28.11.2017	(22) 07.06.2012
(11) EP3373494	(54) NUMEROLOGY INDICATION FOR	(54) METHOD FOR RECEIVING CONTROL
(21) EP16861450.1	RADIO ACCESS NETWORKS	INFORMATION OF A MOBILE
(47) 09.02.2022	(73) Telefonaktiebolaget LM Ericsson (publ)	COMMUNICATION SYSTEM
(87) CN2016103097	(72) DAHLMAN, Erik	(73) Electronics and Telecommunications
11.05.2017	BALDEMAIR, Robert	Research Institute
(22) 24.10.2016	PARKVALL, Stefan	(72) AHN, Jae Young
(54) METHODS OF TRANSMITTING AND	GRÖVLEN, Asbjörn	SEO, Bang Won
RECEIVING SOUNDING REFERENCE	(51) H04L 5/00	NOH, Tae Gyun
SIGNAL AND DEVICES UTILIZING	H04L 27/26	KO, Young Jo
SAME	H04B 7/26	(31) 20110071701
(73) ZTE Corporation	H04J 11/00	20110057653
(72) LI, YU Ngok	H04W 48/12	20110054668
CAI, Jianxing	(11) EP3451571	(32) 19.07.2011
LU, Zhaohua	(21) EP17789849.1	14.06.2011
CHEN, Yijian	(47) 09.02.2022	07.06.2011
WANG, Yuxin	(87) KR2017004261	(33) Korea (Republic)
LI, Yong	02.11.2017	Korea (Republic)
WU, Hao	(22) 21.04.2017	Korea (Republic)
XIAO, Huahua	(54) METHOD FOR TRANSMITTING	(51) H04L 5/00
(31) 201510752876	DISCOVERY SIGNALS AND METHOD	H04W 72/04
(32) 06.11.2015	FOR RECEIVING DISCOVERY	H04B 1/713
(33) China	SIGNALS	(11) EP3723315
(51) H04L 5/00	(73) Electronics and Telecommunications	(21) EP18900312.2
H04L 25/03	Research Institute	(47) 09.02.2022
(11) EP3342084	(72) CHOI, Eun-Young	(87) CN2018071932
(21) EP16791185.8	KIM, Minhyun	18.07.2019
(47) 09.02.2022	KIM, Cheulsoon	(22) 09.01.2018
(87) US2016057836	KIM, Ji Hyung	(54) BWP FREQUENCY HOPPING
04.05.2017	LEE, Junghoon	CONFIGURATION METHOD,
(22) 20.10.2016	MOON, Sung-Hyun	NETWORK DEVICE AND TERMINAL
(54) APPARATUS AND METHOD FOR	(31) 20170051283	(73) GUANGDONG OPPO MOBILE
GENERATING AND USING A PILOT	20160103036	TELECOMMUNICATIONS CORP., LTD.
SIGNAL	20160070544	(72) SHEN, Jia
(73) Motorola Mobility LLC	20160050325	(51) H04L 5/00
(72) NANGIA, Vijay	(32) 20.04.2017	H04W 72/12
POURAHMADI, Vahid	12.08.2016	H04W 72/00
(31) 201615293454	07.06.2016	H04L 1/08
201562248336 P	25.04.2016	H04W 72/04
(32) 14.10.2016	(33) Korea (Republic)	H04L 1/18
30.10.2015	Korea (Republic)	(11) EP3500035
(33) United States of America	Korea (Republic)	(21) EP17839811.1
United States of America	Korea (Republic)	(47) 09.02.2022
(51) H04L 5/00	(51) H04L 5/00	(87) KR2017008647
H04L 27/26	H04W 72/04	15.02.2018
(11) EP3783828	(11) EP3606233	(22) 09.08.2017

(54) METHOD FOR RECEIVING DATA IN WIRELESS COMMUNICATION SYSTEM SUPPORTING NARROW-BAND INTERNET OF THINGS, AND APPARATUS FOR SAME	ZHENG, Qingji (31) 201762598666 P (32) 14.12.2017 (33) United States of America (51) H04L 9/08	QIN, Qing LI, Maocai TU, Haitao GUO, Rui ZHU, Dawei (31) 201710557416 (32) 10.07.2017 (33) China
(73) LG Electronics Inc. (72) SHIN, Seokmin YI, Yunjung HWANG, Seunggye YOU, Hyangsun AHN, Joonkui	(11) EP3603001 (21) EP18714667.5 (47) 09.02.2022 (87) US2018022283 27.09.2018 (22) 14.03.2018 (54) HARDWARE-ACCELERATED PAYLOAD FILTERING IN SECURE COMMUNICATION	(31) 201710557416 (32) 10.07.2017 (33) China (51) H04L 9/08 H04L 9/32 H04L 29/06 H04L 29/08 H04W 12/04 H04W 12/50 H04W 84/18 (11) EP3117576 (21) EP14885285.8 (47) 09.02.2022 (87) FI2014050179 17.09.2015 (22) 12.03.2014 (54) PAIRING OF DEVICES (73) Nokia Technologies Oy (72) PALIN, Arto REUNAMÄKI, Jukka
(31) 201662405266 P 201662400645 P 201662400647 P 201662396835 P 201662385252 P 201662373374 P 201662372324 P 201662372323 P	(73) Microsoft Technology Licensing, LLC (72) CELA, Carlos Jose (31) 201715632865 201762475159 P (32) 26.06.2017 22.03.2017 (33) United States of America United States of America	(31) 201710557416 (32) 10.07.2017 (33) China (51) H04L 9/08 H04L 9/32 H04L 29/06 H04L 29/08 H04W 12/04 H04W 12/50 H04W 84/18 (11) EP3117576 (21) EP14885285.8 (47) 09.02.2022 (87) FI2014050179 17.09.2015 (22) 12.03.2014 (54) PAIRING OF DEVICES (73) Nokia Technologies Oy (72) PALIN, Arto REUNAMÄKI, Jukka
(32) 07.10.2016 28.09.2016 28.09.2016 20.09.2016 09.09.2016 11.08.2016 09.08.2016 09.08.2016	(31) 201715632865 201762475159 P (32) 26.06.2017 22.03.2017 (33) United States of America United States of America	(31) 201710557416 (32) 10.07.2017 (33) China (51) H04L 9/08 H04L 9/32 G06F 21/64 H04L 29/06 (11) EP3563329 (21) EP18865957.7 (47) 09.02.2022 (87) CN2018120887 18.04.2019 (22) 13.12.2018 (54) OFF-CHAIN SMART CONTRACT SERVICE BASED ON TRUSTED EXECUTION ENVIRONMENT
(33) United States of America United States of America United States of America United States of America United States of America United States of America United States of America United States of America	(11) EP3720042 (21) EP18890518.6 (47) 09.02.2022 (87) CN2018122188 27.06.2019 (22) 19.12.2018 (54) METHOD AND DEVICE FOR DETERMINING TRUST STATE OF TPM, AND STORAGE MEDIUM	(51) H04L 9/32 G06F 21/64 H04L 29/06 (11) EP3563329 (21) EP18865957.7 (47) 09.02.2022 (87) CN2018120887 18.04.2019 (22) 13.12.2018 (54) OFF-CHAIN SMART CONTRACT SERVICE BASED ON TRUSTED EXECUTION ENVIRONMENT (73) Advanced New Technologies Co., Ltd. (72) SONG, Xuyang ZHAO, Boran YAN, Ying LIN, Li QIU, Honglin
(51) H04L 9/00 G06F 21/72 G06F 7/72 (11) EP3480998 (21) EP17833536.0 (47) 09.02.2022 (87) CN2017094332 01.02.2018 (22) 25.07.2017 (54) OPERATION METHOD AND SECURITY CHIP	(22) 19.12.2018 (54) METHOD AND DEVICE FOR DETERMINING TRUST STATE OF TPM, AND STORAGE MEDIUM (73) HUAWEI TECHNOLOGIES CO., LTD. (72) LI, Fangzhan WANG, Honglei MEN, Fanglong (31) 201711403413 (32) 22.12.2017 (33) China (51) H04L 9/08 H04L 9/32 H04L 29/06 H04L 29/08 G06Q 20/40 (11) EP3654577 (21) EP18831795.2 (47) 09.02.2022 (87) CN2018094694 17.01.2019 (22) 05.07.2018 (54) CERTIFICATE MANAGEMENT METHOD, SYSTEM, NETWORK DEVICE AND COMPUTER READABLE STORAGE MEDIUM	(73) Advanced New Technologies Co., Ltd. (72) SONG, Xuyang ZHAO, Boran YAN, Ying LIN, Li QIU, Honglin (51) H04L 9/32 H04L 9/08 G06F 7/58 (11) EP3785399 (21) EP19718740.4 (47) 09.02.2022 (87) EP2019060525 31.10.2019 (22) 24.04.2019 (54) METHOD FOR GENERATING ON-BOARD A CRYPTOGRAPHIC KEY USING A PHYSICALLY UNCLONABLE FUNCTION (73) THALES DIS DESIGN SERVICES SAS (72) FOURQUIN, Olivier DUVAL, Benjamin BERZATI, Alexandre (31) 18305522 (32) 26.04.2018 (33) European Patent Office (EPO)
(73) Huawei Technologies Co., Ltd. (72) SUN, Shaojie HU, Cui TAN, ZhuFeng	(51) H04L 9/08 H04L 9/32 H04L 29/06 H04L 29/08 G06Q 20/40 (11) EP3654577 (21) EP18831795.2 (47) 09.02.2022 (87) CN2018094694 17.01.2019 (22) 05.07.2018 (54) CERTIFICATE MANAGEMENT METHOD, SYSTEM, NETWORK DEVICE AND COMPUTER READABLE STORAGE MEDIUM	(11) EP3785399 (21) EP19718740.4 (47) 09.02.2022 (87) EP2019060525 31.10.2019 (22) 24.04.2019 (54) METHOD FOR GENERATING ON-BOARD A CRYPTOGRAPHIC KEY USING A PHYSICALLY UNCLONABLE FUNCTION (73) THALES DIS DESIGN SERVICES SAS (72) FOURQUIN, Olivier DUVAL, Benjamin BERZATI, Alexandre (31) 18305522 (32) 26.04.2018 (33) European Patent Office (EPO)
(31) 201610594595 (32) 26.07.2016 (33) China	(11) EP3654577 (21) EP18831795.2 (47) 09.02.2022 (87) CN2018094694 17.01.2019 (22) 05.07.2018 (54) CERTIFICATE MANAGEMENT METHOD, SYSTEM, NETWORK DEVICE AND COMPUTER READABLE STORAGE MEDIUM	(11) EP3785399 (21) EP19718740.4 (47) 09.02.2022 (87) EP2019060525 31.10.2019 (22) 24.04.2019 (54) METHOD FOR GENERATING ON-BOARD A CRYPTOGRAPHIC KEY USING A PHYSICALLY UNCLONABLE FUNCTION (73) THALES DIS DESIGN SERVICES SAS (72) FOURQUIN, Olivier DUVAL, Benjamin BERZATI, Alexandre (31) 18305522 (32) 26.04.2018 (33) European Patent Office (EPO)
(51) H04L 9/00 H04L 9/08 H04L 9/32 (11) EP3725023 (21) EP18826239.8 (47) 09.02.2022 (87) EP2018084769 20.06.2019 (22) 13.12.2018 (54) METHOD FOR FASTER SECURE MULTIPARTY INNER PRODUCT WITH SPDZ	(73) Tencent Technology (Shenzhen) Company Limited (72) LIANG, Jun ZHANG, Jianjun WANG, Zongyou LIU, Binhua ZHAO, Qi	(51) H04L 9/32 H04L 9/08 G06F 7/58 (11) EP3785399 (21) EP19718740.4 (47) 09.02.2022 (87) EP2019060525 31.10.2019 (22) 24.04.2019 (54) METHOD FOR GENERATING ON-BOARD A CRYPTOGRAPHIC KEY USING A PHYSICALLY UNCLONABLE FUNCTION (73) THALES DIS DESIGN SERVICES SAS (72) FOURQUIN, Olivier DUVAL, Benjamin BERZATI, Alexandre (31) 18305522 (32) 26.04.2018 (33) European Patent Office (EPO)
(73) Robert Bosch GmbH (72) FAN, Xinxin GUAJARDO MERCHAN, Jorge	(73) Tencent Technology (Shenzhen) Company Limited (72) LIANG, Jun ZHANG, Jianjun WANG, Zongyou LIU, Binhua ZHAO, Qi	(51) H04L 9/32 H04L 9/08 G06F 7/58 (11) EP3785399 (21) EP19718740.4 (47) 09.02.2022 (87) EP2019060525 31.10.2019 (22) 24.04.2019 (54) METHOD FOR GENERATING ON-BOARD A CRYPTOGRAPHIC KEY USING A PHYSICALLY UNCLONABLE FUNCTION (73) THALES DIS DESIGN SERVICES SAS (72) FOURQUIN, Olivier DUVAL, Benjamin BERZATI, Alexandre (31) 18305522 (32) 26.04.2018 (33) European Patent Office (EPO)

24.05.2018	(51) H04L 12/18	(33) United States of America
(22) 04.09.2017	H04L 29/08	(51) H04L 12/26
(54) POWER CONTROL FOR A POWER OVER ETHERNET SYSTEM	H04L 29/06	H04B 7/04
(73) Hangzhou Hikvision Digital Technology Co., Ltd.	(11) EP3732850	H04B 7/06
(72) LI, Duanyu	(21) EP18827095.3	(11) EP3609133
(31) 201611006525	(47) 09.02.2022	(21) EP19201791.1
(32) 16.11.2016	(87) EP2018086411	(47) 09.02.2022
(33) China	04.07.2019	(22) 06.12.2016
(51) H04L 12/12	(22) 20.12.2018	(54) LINK ACQUISITION IN DIRECTIONAL WIRELESS SYSTEMS
(11) EP3854028	(54) REAL-TIME COLLABORATION PLATFORM AND METHOD FOR OUTPUTTING MEDIA STREAMS VIA A REAL-TIME ANNOUNCEMENT SYSTEM	(73) Facebook, Inc.
(21) EP20726047.2	(73) Unify Patente GmbH & Co. KG	(72) Kohli, Sanjai
(47) 09.02.2022	(72) TOTZKE, Jürgen	Gomadam, Krishna
(87) EP2020063186	KÄHLER, Christian	Tujkovic, Djordje
03.12.2020	DEGENKOLB, Patrick	(31) 201514986471
(22) 12.05.2020	(31) 102017131420	201562273381 P
(54) METHOD FOR DETECTING NETWORK SUBSCRIBERS IN AN AUTOMATION NETWORK AND AUTOMATION NETWORK	(32) 29.12.2017	(32) 31.12.2015
(73) Beckhoff Automation GmbH	(33) Germany	30.12.2015
(72) ROSTAN, Martin	(51) H04L 12/22	(33) United States of America
BÜTTNER, Holger	H04L 9/32	United States of America
RETTIG, Thomas	H04L 29/06	(51) H04L 12/26
BECKHOFF, Hans	(11) EP3525395	H04L 29/06
JANSSEN, Dirk	(21) EP19167409.2	(11) EP3624402
BECKMANN, Guido	(47) 09.02.2022	(21) EP19197365.0
ESSLER, Florian	(22) 23.09.2014	(47) 09.02.2022
(31) 102019114303	(54) RESOURCE LOCATORS WITH KEYS	(22) 13.09.2019
(32) 28.05.2019	(73) Amazon Technologies, Inc.	(54) METHOD FOR DETECTING ILLEGAL SOURCES RESPONSIBLE FOR AN ATTACK DISTRIBUTED BY DENIAL-OF-SERVICE THROUGH FLOODING OF LINK AND ASSOCIATED INSTALLATION
(33) Germany	(72) ROTH, Gregory Brancheck	(73) Thales
(51) H04L 12/14	BRANDWINE, Eric Jason	(72) BELABED, Dallal
H04W 4/02	(31) 201314037282	VANIA, Conan
H04M 15/00	(32) 25.09.2013	BOUET, Mathieu
H04W 64/00	(33) United States of America	(31) 1800954
(11) EP3163954	(51) H04L 12/24	(32) 13.09.2018
(21) EP14899473.4	H04W 28/24	(33) France
(47) 09.02.2022	(11) EP3718256	(51) H04L 12/28
(87) CN2014083880	(21) EP18815962.8	(11) EP2430767
11.02.2016	(47) 09.02.2022	(21) EP10775074.7
(22) 07.08.2014	(87) EP2018082909	(47) 09.02.2022
(54) METHODS AND APPARATUSES FOR REPORTING LOCATION INFORMATION OF USER EQUIPMENT	06.06.2019	(87) KR2010002929
(73) HUAWEI TECHNOLOGIES CO., LTD.	(22) 28.11.2018	18.11.2010
(72) SHI, Xiaoyan	(54) TARGET AREA INDICATION	(22) 07.05.2010
ZHANG, Wanqiang	(73) Telefonaktiebolaget LM Ericsson (publ)	(54) MOBILE TERMINAL
WU, Yizhuang	(72) JOHANSSON, Nicklas	(73) LG Electronics Inc.
(51) H04L 12/18	EKLÖF, Cecilia	(72) YUM, Kwan Ho
H04L 12/58	PETERSEN, Robert	KIM, Sang Oh
G08G 1/09	MONRAD, Atle	JANG, Bong Mun
G08G 1/16	(31) 201762591306 P	(31) 20090041005
(11) EP3545508	(32) 28.11.2017	(32) 11.05.2009
(21) EP17884908.9	(33) United States of America	(33) Korea (Republic)
(47) 09.02.2022	(51) H04L 12/26	(51) H04L 12/40
(87) CN2017114666	(11) EP1751919	(11) EP3729738
28.06.2018	(21) EP05731243.1	(21) EP18826581.3
(22) 05.12.2017	(47) 09.02.2022	(47) 09.02.2022
(54) METHOD AND DEVICE FOR SELECTING NOTIFICATION RECIPIENT	(87) US2005010810	(87) EP2018085271
(73) Huawei Technologies Co., Ltd.	10.11.2005	27.06.2019
(72) YU, Xin	(22) 29.03.2005	(22) 17.12.2018
CHAU, Van So	(54) METHOD AND APPARATUS FOR DYNAMICALLY DETERMINING WHEN TO USE QUALITY OF SERVICE RESERVATION IN INTERNET MEDIA APPLICATIONS	(54) METHOD FOR TRANSMITTING DATA PACKETS, CONTROL UNIT AND SYSTEM HAVING CONTROL UNIT
(31) 201615389017	(73) Cisco Technology, Inc.	(73) VOLKSWAGEN
(32) 22.12.2016	(72) ORAN, David, R.	AKTIENGESELLSCHAFT
(33) United States of America	(31) 828370	(72) MEIER, Alexander
	(32) 19.04.2004	KRIEGER, Olaf

(31) 102017130547	United States of America	H04L 5/00
(32) 19.12.2017	United States of America	H04W 74/00
(33) Germany	United States of America	(11) EP3678318
(51) H04L 12/40	United States of America	(21) EP18854914.1
H04L 12/46	(51) H04L 12/58	(47) 09.02.2022
H04L 9/32	G06Q 30/06	(87) CN2018103776
H04L 12/66	(11) EP3688943	14.03.2019
(11) EP3734911	(21) EP18836427.7	(22) 03.09.2018
(21) EP20182263.2	(47) 09.02.2022	(54) INFORMATION TRANSMISSION
(47) 09.02.2022	(87) US2018065598	METHOD AND DEVICE
(22) 30.06.2016	04.07.2019	(73) Huawei Technologies Co., Ltd.
(54) GATEWAY DEVICE, CAR ONBOARD	(22) 14.12.2018	(72) GUO, Zhiheng
NETWORK SYSTEM, AND TRANSFER	(54) ADDING IMAGES VIA MMS TO A	BERGGREN, Fredrik
METHOD	DRAFT DOCUMENT	ZHAO, Yue
(73) Panasonic Intellectual Property	(73) eBay Inc.	XIE, Xinqian
Corporation of America	(72) GLEDHILL, Vivian	(31) 201710807910
(72) UJIIE, Yoshihiro	(31) 201715856357	(32) 08.09.2017
MATSUSHIMA, Hideki	(32) 28.12.2017	(33) China
ANZAI, Jun	(33) United States of America	(51) H04L 27/26
NAKANO, Toshihisa	(51) H04L 12/70	H04W 16/14
UNAGAMI, Yuji	H04L 29/06	H04L 27/00
HAGA, Tomoyuki	H04N 1/36	(11) EP3488575
(31) 2016119773	H04N 21/242	(21) EP16766629.6
201562212104 P	H04W 56/00	(47) 09.02.2022
(32) 16.06.2016	H04L 7/00	(87) IB2016055182
31.08.2015	H04N 21/43	25.01.2018
(33) Japan	H04N 21/6437	(22) 30.08.2016
United States of America	(11) EP3591908	(54) MULTI-PROTOCOL BEACON
(51) H04L 12/413	(21) EP17902312.2	OPERATION
H04L 25/49	(47) 09.02.2022	(73) Telefonaktiebolaget LM Ericsson (publ)
H04J 3/16	(87) CN2017077925	(72) HALABIAN, Hassan
H04J 3/06	27.09.2018	SMITH, Roland
(11) EP3713158	(22) 23.03.2017	GARY, Boudreau
(21) EP20171432.6	(54) METHOD AND DEVICE FOR LIP-	(31) 201662365691 P
(47) 09.02.2022	SPEECH SYNCHRONIZATION AMONG	(32) 22.07.2016
(22) 30.06.2016	MULTIPLE DEVICES	(33) United States of America
(54) TIME TRANSFER SYSTEMS AND	(73) Huawei Technologies Co., Ltd.	(51) H04L 27/26
METHODS OVER A STREAM OF	(72) SUN, Tao	H04W 56/00
ETHERNET BLOCKS	(51) H04L 12/733	H04B 7/06
(73) Ciena Corporation	H04W 40/12	H04L 5/00
(72) GAREAU, Sebastien	H04W 40/22	H04J 11/00
LECLAIR, Marc W.	H04W 84/18	H04B 7/024
(31) 201514966779	(11) EP3739909	(11) EP3616376
201514868603	(21) EP18899357.0	(21) EP18720923.4
201514855857	(47) 09.02.2022	(47) 09.02.2022
201514824715	(87) CN2018071972	(87) US2018026922
201514824693	18.07.2019	01.11.2018
201514824667	(22) 09.01.2018	(22) 10.04.2018
201562186518 P	(54) METHOD AND APPARATUS FOR	(54) OVER-THE-AIR PHASE
201562186508 P	NETWORK SELF-ORGANIZATION	SYNCHRONIZATION FOR
201562186502 P	(73) GUANGDONG OPPO MOBILE	RECIPROCITY-BASED COMP JOINT
201562186489 P	TELECOMMUNICATIONS CORP., LTD.	TRANSMISSION
(32) 11.12.2015	(72) SHI, Cong	(73) QUALCOMM Incorporated
29.09.2015	(51) H04L 25/03	(72) FAN, Zhifei
16.09.2015	G06N 3/04	ZHANG, Xiaoxia
12.08.2015	G06N 3/08	FAKOORIAN, Seyed Ali Akbar
12.08.2015	(11) EP3836499	YOO, Taesang
12.08.2015	(21) EP19215707.1	(31) 201715830760
30.06.2015	(47) 09.02.2022	201762491046 P
30.06.2015	(22) 12.12.2019	(32) 04.12.2017
30.06.2015	(54) DEVICE AND METHOD FOR TRAINING	27.04.2017
30.06.2015	A MODEL	(33) United States of America
(33) United States of America	(73) Technische Universität Dresden	United States of America
United States of America	(72) Fettweis, Gerhard	(51) H04L 29/06
United States of America	Radi, Mohammed	(11) EP3361691
United States of America	Matus, Emil	(21) EP16853043.4
United States of America	(51) H04L 27/26	(47) 09.02.2022
United States of America		(87) CN2016095470

13.04.2017	H04W 4/40	(54) PROXY-BASED SERVICE
(22) 16.08.2016	H04W 12/108	PROCESSING METHOD, DEVICE, AND
(54) METHOD AND DEVICE FOR	B60R 25/04	NETWORK ELEMENT DEVICE
VERIFYING VALIDITY OF IDENTITY OF	(11) EP3725055	(73) Huawei Technologies Co., Ltd.
ENTITY	(21) EP18815632.7	(72) LI, Huan
(73) China Iwncomm Co., Ltd.	(47) 09.02.2022	(31) 201611238338
(72) ZHANG, Bianling	(87) EP2018083641	(32) 28.12.2016
DU, Zhiqiang	20.06.2019	(33) China
TONG, Weigang	(22) 05.12.2018	(51) H04L 29/08
LAI, Xiaolong	(54) DEVICES, METHODS, AND	(11) EP3669529
LI, Qin	COMPUTER PROGRAM FOR	(21) EP18766084.0
(31) 201510655011	RELEASING VEHICLE COMPONENTS,	(47) 09.02.2022
(32) 10.10.2015	AND VEHICLE-TO-VEHICLE	(87) US2018046729
(33) China	COMMUNICATION MODULE	21.02.2019
(51) H04L 29/06	(73) VOLKSWAGEN	(22) 14.08.2018
G06F 21/64	AKTIENGESELLSCHAFT	(54) SYSTEM AND METHOD FOR METRO
G06F 21/30	(72) TSCHACHE, Alexander	MID-TIER MAPPING IN A CONTENT
H04L 9/32	WINKELVOS, Timo	DELIVERY NETWORK
(11) EP3454238	(31) 102017222882	(73) Level 3 Communications, LLC
(21) EP16924533.9	(32) 15.12.2017	(72) POWER, William R.
(47) 09.02.2022	(33) Germany	(31) 201762545336 P
(87) CN2016111857	(51) H04L 29/06	(32) 14.08.2017
28.06.2018	H04N 5/04	(33) United States of America
(22) 23.12.2016	H04N 7/18	(51) H04L 29/08
(54) REGISTRATION AND AUTHORIZATION	H04N 7/04	(11) EP3788766
METHOD, DEVICE AND SYSTEM	(11) EP3682615	(21) EP18727493.1
(73) CloudMinds (Shanghai) Robotics Co.,	(21) EP18869740.3	(47) 09.02.2022
Ltd.	(47) 09.02.2022	(87) US2018030579
(72) WANG, Jian	(87) CN2018111361	07.11.2019
XIE, Hui	02.05.2019	(22) 02.05.2018
(51) H04L 29/06	(22) 23.10.2018	(54) DIRECT USER EQUIPMENT TO
H04L 12/12	(54) SYSTEMS AND METHODS FOR	USER EQUIPMENT WITHOUT DATA
G06F 21/86	MULTIMEDIA SIGNAL PROCESSING	NETWORK ACCESS IDENTIFIER
(11) EP3560160	AND TRANSMISSION	(73) Nokia Technologies OY
(21) EP16816685.8	(73) Zhejiang Xinsheng Electronic Technology	(72) HOFFMANN, Klaus
(47) 09.02.2022	Co., Ltd.	MORPER, Hans-Jochen
(87) EP2016081874	(72) DU, Zhaosheng	(51) H04L 29/08
28.06.2018	CUI, Genqiang	G06F 12/0817
(22) 20.12.2016	FANG, Wei	G06F 3/06
(54) MODULAR SYSTEM FOR	LYU, Bingyun	G06F 12/0837
CONTROLLING USABILITY OF A	(31) 201710992714	(11) EP3248097
DEVICE	(32) 23.10.2017	(21) EP16740669.3
(73) Sony Group Corporation	(33) China	(47) 09.02.2022
(72) LJUNG, Rickard	(51) H04L 29/06	(87) US2016014113
BERTHET, David	H04W 12/00	28.07.2016
(51) H04L 29/06	(11) EP3754930	(22) 20.01.2016
H04L 29/08	(21) EP18909699.3	(54) OBJECT MEMORY DATA FLOW
H04N 21/2343	(47) 09.02.2022	INSTRUCTION EXECUTION
H04N 21/2381	(87) CN2018116551	(73) Ultrata LLC
(11) EP3598715	19.09.2019	(72) FRANK, Steven
(21) EP18775510.3	(22) 20.11.2018	REBACK, Larry
(47) 09.02.2022	(54) DATA PROCESSING METHOD AND	(31) 201562105549 P
(87) KR2018003741	ACCESS NETWORK DEVICE	(32) 20.01.2015
04.10.2018	(73) GUANGDONG OPPO MOBILE	(33) United States of America
(22) 29.03.2018	TELECOMMUNICATIONS CORP., LTD.	(51) H04L 29/08
(54) MULTIMEDIA SERVICE CONTENT	(72) LIU, Jianhua	H04L 9/32
PROVIDING DEVICE AND METHOD	(31) PCT/CN2018/079200	H04L 29/06
(73) Samsung Electronics Co., Ltd.	(32) 15.03.2018	H04L 9/08
(72) BAE, Jae-Hyeon	(33) World Intellectual Property Office (WIPO)	(11) EP3588917
YANG, Hyun-Koo	(51) H04L 29/08	(21) EP19182528.0
KIM, Dong-Yeon	(11) EP3468153	(47) 09.02.2022
PARK, Kyung-Mo	(21) EP17886508.5	(22) 26.06.2019
SO, Young-Wan	(47) 09.02.2022	(54) INFORMATION PROCESSING
(31) 20170040310	(87) CN2017104555	APPARATUS, CONTROL METHOD
(32) 29.03.2017	05.07.2018	FOR INFORMATION PROCESSING
(33) Korea (Republic)	(22) 29.09.2017	APPARATUS, AND STORAGE MEDIUM
(51) H04L 29/06		(73) CANON KABUSHIKI KAISHA
H04L 29/08		(72) KAKUTANI, Naoya

(31) 2018125180	B60R 16/02	(54) TECHNIQUE FOR ACQUIRING AND CORRELATING SESSION-RELATED INFORMATION FROM AN INTERNET PROTOCOL MULTIMEDIA SUBSYSTEM
(32) 29.06.2018	G01C 21/36	(73) Telefonaktiebolaget LM Ericsson (publ)
(33) Japan	H04M 1/60	(72) MITCSENKOV, Attila
(51) H04L 29/08	H04M 1/725	BÁDER, Attila
H04L 29/06	(11) EP3424781	SZÁSZ, Ferenc
(11) EP3790259	(21) EP18185774.9	
(21) EP20203835.2	(47) 09.02.2022	
(47) 09.02.2022	(22) 16.09.2011	
(22) 29.05.2019	(54) REMOTE CONTROLLING OF A MOBILE DEVICE BY A IN-CAR INFORMATION SYSTEM	(51) H04M 19/04
(54) COMMUNICATION DEVICE AND COMMUNICATION METHOD		H04M 3/42
(73) FUJITSU LIMITED	(73) Clarion Co., Ltd.	H04W 4/16
(72) Imai, Satoshi	(72) NARA, Norikazu	H04M 3/436
(31) 2018107598	SUZUKI, Hidetaka	H04W 4/12
(32) 05.06.2018	KATO, Ryohei	(11) EP3291524
(33) Japan	ABE, Noriyuki	(21) EP17020462.2
(51) H04L 29/08	OKAMOTO, Kimio	(47) 09.02.2022
H04W 4/70	(31) 2011090411	(22) 02.12.2015
G01D 4/00	2010251664	(54) COLLABORATIVE PHONE REPUTATION SYSTEM
H04B 3/54	2010209333	(73) Intel Corporation
(11) EP3777102	(32) 14.04.2011	(72) LI, Hong
(21) EP19713792.0	10.11.2010	WOUHAYBI, Rita H.
(47) 09.02.2022	17.09.2010	TATOURIAN, Igor
(87) EP2019057633	(33) Japan	KOHLBERG, Tobias M.
03.10.2019	Japan	(31) 201414581446
(22) 26.03.2019	Japan	(32) 23.12.2014
(54) DATA TRANSMISSION FROM A MANAGEMENT ENTITY TO A SMART ELECTRICITY METER	(51) H04M 3/50	(33) United States of America
(73) Sagemcom Energy & Telecom SAS	H04M 3/56	
(72) TEBoulLE, Henri	H04L 29/06	(51) H04N 5/225
LECAPPON, Jean-Paul	(11) EP3491813	G03B 17/02
(31) 1852648	(21) EP17837543.2	G08B 13/196
(32) 27.03.2018	(47) 09.02.2022	H04N 7/18
(33) France	(87) US2017044910	H04N 5/232
(51) H04L 29/12	08.02.2018	F16M 13/02
H04L 12/24	(22) 01.08.2017	F16M 11/04
(11) EP3476108	(54) SYSTEM AND METHOD FOR FACILITATING SETUP AND JOINING OF CONFERENCE CALLS	F16M 11/12
(21) EP17737325.5	(73) Youmail, Inc	F16M 11/18
(47) 09.02.2022	(72) QUILICI, Alexander, E.	F16M 11/20
(87) FR2017051571	RUDOLPH, Michael, J.	G03B 17/56
28.12.2017	(31) 201662369510 P	(11) EP3562140
(22) 16.06.2017	(32) 01.08.2016	(21) EP19170575.5
(54) METHOD, COMPUTER PROGRAM AND DEVICE FOR PROVIDING AN ADDRESS BY A DEVICE TO BE MANAGED OF A NETWORK	(33) United States of America	(47) 09.02.2022
(73) ORANGE	(51) H04M 3/51	(22) 23.04.2019
(72) BASSET, Régine	H04M 3/523	(54) TWO AXIS PAN TILT CAMERA SYSTEM CONFIGURED TO MAINTAIN A LEVEL IMAGE WHEN WALL OR CEILING MOUNTED
CLOAREC, Jean-Yves	(11) EP3243143	(73) Sensormatic Electronics, LLC
OTT, Jean-Didier	(21) EP14909220.7	(72) MILLER, Channing Everet
(31) 1655808	(47) 09.02.2022	SCHIELTZ, Steven W.
(32) 22.06.2016	(87) US2014072085	SIU, Patrick
(33) France	30.06.2016	(31) 201815959860
(51) H04M 1/72412	(22) 23.12.2014	(32) 23.04.2018
H04M 1/72454	(54) SYSTEM AND METHOD FOR LANGUAGE SPECIFIC ROUTING	(33) United States of America
H04M 1/72463	(73) Interactive Intelligence Group, Inc.	
(11) EP3709613	(72) NEIDERMYER, Richard M.	(51) H04N 5/369
(21) EP19162793.4	LYNCH, David Johnston	H04N 9/04
(47) 09.02.2022		H04N 5/232
(22) 14.03.2019	(51) H04M 7/00	H04N 5/347
(54) APPARATUS, METHOD AND COMPUTER PROGRAM FOR TRIGGERING A FUNCTION	H04L 12/26	H04N 9/07
(73) Nokia Technologies Oy	H04M 3/22	H04N 5/355
(72) COYLE-GILCHRIST, Matthew	H04L 29/06	H04N 5/361
(51) H04M 1/72415	(11) EP3782358	H04N 5/3745
	(21) EP18720185.0	H01L 27/146
	(47) 09.02.2022	G02B 7/34
	(87) EP2018059903	G02B 5/20
	24.10.2019	(11) EP3618430
	(22) 18.04.2018	(21) EP18790913.0
		(47) 09.02.2022
		(87) JP2018015157

01.11.2018	H04N 5/232	United States of America
(22) 11.04.2018	G06T 7/73	(51) H04N 19/52
(54) SOLID-STATE IMAGE CAPTURING	H04N 13/128	H04N 19/527
DEVICE AND ELECTRONIC	H04N 13/296	H04N 19/567
INSTRUMENT	H04N 13/327	(11) EP3833028
(73) Sony Group Corporation	H04N 13/225	(21) EP19213109.2
(72) MIYAKOSHI, Daisuke	(11) EP3255887	(47) 09.02.2022
(31) 2017085906	(21) EP17181162.3	(22) 03.12.2019
(32) 25.04.2017	(47) 09.02.2022	(54) METHOD AND SYSTEM FOR
(33) Japan	(22) 27.03.2012	CALCULATING A COST OF ENCODING
(51) H04N 5/64	(54) IMAGING PROCESSING APPARATUS,	A MOTION VECTOR
H04R 1/02	IMAGE PROCESSING METHOD, AND	(73) Axis AB
F16M 11/04	PROGRAM	(72) Edpalm, Viktor
F16M 11/10	(73) Sony Group Corporation	(51) H04N 19/52
F16M 11/18	(72) Jun, Suzuki	H04N 19/573
(11) EP3716614	(31) 2011087211	(11) EP3525466
(21) EP19165087.8	(32) 11.04.2011	(21) EP19160689.6
(47) 09.02.2022	(33) Japan	(47) 09.02.2022
(22) 26.03.2019	(51) H04N 19/149	(22) 16.04.2003
(54) MULTIMEDIA INSTALLATION	H04N 21/234	(54) MOTION VECTOR DETERMINING
(73) Bang & Olufsen A/S	H04N 21/2343	METHOD AND APPARATUS
(72) BERGSTRØM GRABÆK, Jakob	H04N 19/102	(73) Panasonic Intellectual Property
(51) H04N 5/92	H04N 19/117	Corporation of America
(11) EP2859722	H04N 19/14	(72) KONDO, Satoshi
(21) EP13732695.5	H04N 19/137	KADONO, Shinya
(47) 09.02.2022	H04N 19/17	ABE, Kiyofumi
(87) US2013044576	H04N 19/587	HAGAI, Makoto
12.12.2013	H04N 19/59	(31) 2002204713
(22) 06.06.2013	(11) EP3582500	2002323096
(54) ADAPTIVE UPSAMPLING FILTERS	(21) EP19180079.6	2002290542
FOR VIDEO COMPRESSION	(47) 09.02.2022	2002193027
(73) Qualcomm Incorporated	(22) 13.06.2019	2002118598
(72) TU, Chengjie	(54) METHOD, SYSTEM AND COMPUTER	2002121053
SEREGIN, Vadim	PROGRAM FOR ANALYSING THE	2002156266
KARCZEWICZ, Marta	COMPLEXITY OF MULTIMEDIA	2002177889
CHEN, Jianle	CONTENT FOR ON-DEMAND	2002262151
(31) 201313910995	BROADCAST	37895402 P
201261707127 P	(73) ATEME	37864302 P
201261657516 P	(72) GUIONNET, Thomas	(32) 12.07.2002
(32) 05.06.2013	(31) 1855193	06.11.2002
28.09.2012	(32) 13.06.2018	02.10.2002
08.06.2012	(33) France	02.07.2002
(33) United States of America	(51) H04N 19/52	19.04.2002
United States of America	(11) EP2721817	23.04.2002
United States of America	(21) EP12727051.0	29.05.2002
(51) H04N 7/15	(47) 09.02.2022	19.06.2002
H04L 29/06	(87) US2012040928	06.09.2002
H04L 12/18	27.12.2012	10.05.2002
H04N 7/14	(22) 05.06.2012	09.05.2002
(11) EP3220635	(54) UNIFIED MERGE MODE AND	(33) Japan
(21) EP17161350.8	ADAPTIVE MOTION VECTOR	Japan
(47) 09.02.2022	PREDICTION MODE CANDIDATES	Japan
(22) 16.03.2017	SELECTION	Japan
(54) SEAMLESS TRANSITION OF A	(73) Qualcomm Incorporated	Japan
VIDEO SESSION BETWEEN A MESH	(72) WANG, Xianglin	Japan
TOPOLOGY AND A CENTRALIZED	KARCZEWICZ, Marta	Japan
BRIDGE TOPOLOGY	ZHENG, Yunfei	Japan
(73) Polycom, Inc.	(31) 201213487996	Japan
(72) Pai, Deep Subhash	201161509007 P	United States of America
Ignjatic, Dragan	201161506558 P	United States of America
(31) 201631009178	201161499114 P	(51) H04N 21/218
201615221371	(32) 04.06.2012	H04N 19/597
(32) 16.03.2016	18.07.2011	(11) EP3857898
27.07.2016	11.07.2011	(21) EP19766036.8
(33) India	20.06.2011	(47) 09.02.2022
United States of America	(33) United States of America	(87) EP2019074606
(51) H04N 13/00	United States of America	02.04.2020
G06T 11/60	United States of America	(22) 16.09.2019

(54) APPARATUS AND METHOD FOR GENERATING AND RENDERING A VIDEO STREAM	(31) 201715726760 (32) 06.10.2017 (33) United States of America	XUE, Jiantao (51) H04W 4/02 G06K 9/00 G05D 1/02 G01C 21/32
(73) Koninklijke Philips N.V.	(51) H04R 5/02	G01C 21/32
(72) VAREKAMP, Christiaan SONNEVELDT, Bartolomeus Wilhelmus Damianus	B60N 2/54 B60N 2/70 B60N 2/879 H04R 1/02	(11) EP3649794 (21) EP18729396.4 (47) 09.02.2022 (87) EP2018064647
(31) 18196433 (32) 25.09.2018 (33) European Patent Office (EPO)	(11) EP3531715 (21) EP18158736.1 (47) 09.02.2022 (22) 27.02.2018 (54) A SEAT ARRANGED FOR ENHANCED SOUND PERCEPTION VIA VIBRATION	(10.01.2019 (22) 04.06.2018 (54) METHOD, DRIVER ASSISTANCE SYSTEM AND COMPUTER PROGRAM FOR VERIFYING A DIGITAL MAP OF A MORE HIGHLY AUTOMATED VEHICLE (HAF), IN PARTICULAR OF A HIGHLY AUTOMATED VEHICLE
(51) H04N 21/422 H04N 21/45 G06F 3/00 H04N 5/44	(47) 09.02.2022 (22) 27.02.2018 (54) A SEAT ARRANGED FOR ENHANCED SOUND PERCEPTION VIA VIBRATION	(22) 04.06.2018 (54) METHOD, DRIVER ASSISTANCE SYSTEM AND COMPUTER PROGRAM FOR VERIFYING A DIGITAL MAP OF A MORE HIGHLY AUTOMATED VEHICLE (HAF), IN PARTICULAR OF A HIGHLY AUTOMATED VEHICLE
(11) EP3335094 (21) EP16742273.2 (47) 09.02.2022 (87) EP2016067376 16.02.2017	(73) Flexound Systems OY (72) LINJAMA, Jukka IMMONEN, Tommi	(87) EP2018064647 10.01.2019 (22) 04.06.2018 (54) METHOD, DRIVER ASSISTANCE SYSTEM AND COMPUTER PROGRAM FOR VERIFYING A DIGITAL MAP OF A MORE HIGHLY AUTOMATED VEHICLE (HAF), IN PARTICULAR OF A HIGHLY AUTOMATED VEHICLE
(22) 21.07.2016 (54) METHOD FOR PARAMETERISING THE RESPONSIVENESS OF AN ELECTRONIC DEVICE OBSERVED AFTER RECEIVING A COMMAND EMITTED BY A NEARBY TESTING SYSTEM AND DEVICE SUITABLE FOR IMPLEMENTING SUCH A METHOD	(51) H04R 7/04 H04R 7/26 H04R 7/10 H04R 9/04 H04R 1/28	(73) Robert Bosch GmbH (72) PAULS, Jan-Hendrik HASBERG, Carsten (31) 102017211607 (32) 07.07.2017 (33) Germany
(73) Sagemcom Broadband SAS (72) BENAMROUCHE, Farid (31) 1557653 (32) 10.08.2015 (33) France	(11) EP3528510 (21) EP17860384.1 (47) 09.02.2022 (87) JP2017036740 19.04.2018 (22) 11.10.2017 (54) FLAT SPEAKER AND DISPLAY DEVICE	(73) Robert Bosch GmbH (72) PAULS, Jan-Hendrik HASBERG, Carsten (31) 102017211607 (32) 07.07.2017 (33) Germany
(51) H04N 21/4722 H04N 21/422 G06F 3/16 H04N 21/858 H04N 21/435 G06F 40/134 G06F 40/194 G06F 40/284	(73) Panasonic Intellectual Property Management Co., Ltd. (72) IKEUCHI Kazuhiko (31) 2016201991 (32) 13.10.2016 (33) Japan	(73) Robert Bosch GmbH (72) PAULS, Jan-Hendrik HASBERG, Carsten (31) 102017211607 (32) 07.07.2017 (33) Germany
(11) EP3553651 (21) EP19159386.2 (47) 09.02.2022 (22) 26.02.2019 (54) DISPLAY DEVICE FOR DISPLAYING AND PROCESSING A WEBPAGE TO ACCESS A LINK BASED ON A VOICE COMMAND	(72) IKEUCHI Kazuhiko (31) 2016201991 (32) 13.10.2016 (33) Japan	(73) Robert Bosch GmbH (72) PAULS, Jan-Hendrik HASBERG, Carsten (31) 102017211607 (32) 07.07.2017 (33) Germany
(73) LG Electronics Inc. (72) Son, Chulmin (31) 20180040855 (32) 09.04.2018 (33) Korea (Republic)	(51) H04R 25/00 G10L 25/78 H04M 3/56 G10L 25/51	(73) Robert Bosch GmbH (72) PAULS, Jan-Hendrik HASBERG, Carsten (31) 102017211607 (32) 07.07.2017 (33) Germany
(51) H04R 1/10 H04R 5/033	(11) EP3430821 (21) EP16710204.5 (47) 09.02.2022 (87) EP2016055763 21.09.2017 (22) 17.03.2016 (54) HEARING ASSISTANCE SYSTEM IN A MULTI-TALKER ACOUSTIC NETWORK	(73) Robert Bosch GmbH (72) PAULS, Jan-Hendrik HASBERG, Carsten (31) 102017211607 (32) 07.07.2017 (33) Germany
(11) EP3692725 (21) EP18795854.1 (47) 09.02.2022 (87) US2018054078 11.04.2019	(73) Sonova AG (72) MARQUIS, Francois JOST, Timothée	(73) Robert Bosch GmbH (72) PAULS, Jan-Hendrik HASBERG, Carsten (31) 102017211607 (32) 07.07.2017 (33) Germany
(22) 03.10.2018 (54) ADJUSTABLE EARCUP IN CONTINUOUS HEADBAND-SPRING HEADPHONE SYSTEM	(51) H04W 4/02 (11) EP3232719 (21) EP14909476.5 (47) 09.02.2022 (87) CN2014095862 07.07.2016 (22) 31.12.2014 (54) METHODS, APPARATUSES, SYSTEM AND COMPUTER-READABLE STORAGE MEDIUM FOR PROCESSING INFORMATION USED FOR POSITIONING	(73) Robert Bosch GmbH (72) PAULS, Jan-Hendrik HASBERG, Carsten (31) 102017211607 (32) 07.07.2017 (33) Germany
(73) Bose Corporation (72) ZELNICK, Benjamin, E. DALEY, Bennett, P. BAKER, Daniel, P.	(73) Huawei Technologies Co., Ltd. (72) CUI, Jie SU, Bin LI, Anjian LI, Yijie	(73) Robert Bosch GmbH (72) PAULS, Jan-Hendrik HASBERG, Carsten (31) 102017211607 (32) 07.07.2017 (33) Germany

United States of America	(51) H04W 4/70	(47) 09.02.2022
(51) H04W 4/021	H04W 74/08	(87) JP2015086249
H04L 29/08	(11) EP3621330	01.09.2016
H04W 12/02	(21) EP19206981.3	(22) 25.12.2015
(11) EP3641349	(47) 09.02.2022	(54) INFORMATION PROCESSING DEVICE
(21) EP18382740.1	(22) 28.07.2014	(73) Sony Group Corporation
(47) 09.02.2022	(54) METHOD FOR TRANSMITTING	(72) ITAGAKI, Takeshi
(22) 17.10.2018	SIGNAL FOR MTC AND APPARATUS	YAMAURA, Tomoya
(54) METHOD, SYSTEM AND COMPUTER	FOR SAME	MORIOKA, Yuichi
PROGRAMS FOR PROVIDING A	(73) LG Electronics Inc.	(31) 2015038288
LOCATION AWARE USER MODEL	(72) AHN, Joonkui	(32) 27.02.2015
PRESERVING THE USER'S PRIVACY	YOU, Hyangsun	(33) Japan
(73) Koa Health B.V.	YANG, Suckchel	(51) H04W 12/00
(72) Matic, Aleksandar	YI, Yunjung	H04W 12/08
Lantz, Johan	KIM, Bonghoe	H04W 4/70
(51) H04W 4/06	(31) 201461939291 P	H04L 29/08
H04W 76/40	201461929107 P	(11) EP3729848
(11) EP3437347	201461928003 P	(21) EP18836436.8
(21) EP16897330.3	201461925664 P	(47) 09.02.2022
(47) 09.02.2022	201361921520 P	(87) US2018066254
(87) US2016025203	201361919825 P	27.06.2019
05.10.2017	201361910970 P	(22) 18.12.2018
(22) 31.03.2016	201361906424 P	(54) METHODS TO ENABLE CONTEXT
(54) APPARATUSES AND METHODS	201361903413 P	AWARE AUTHORIZATION FOR DATA
TO SUPPORT LOCAL MULTIMEDIA	201361897200 P	OR SERVICES IN THE IOT/M2M
BROADCAST MULTICAST SERVICE	201361894904 P	SERVICE LAYER
(MBMS) DISTRIBUTION	201361884979 P	(73) Convida Wireless, LLC
(73) Nokia Solutions and Networks Oy	201361863450 P	(72) LY, Quang
(72) XU, Xiang	201361862526 P	MLADIN, Catalina, Mihaela
WONG, Curt	201361858633 P	FLYNN, William, Robert, IV
NAVRATIL, David	(32) 13.02.2014	SEED, Dale, N.
(51) H04W 4/08	19.01.2014	CHEN, Zhuo
H04W 4/021	16.01.2014	DI GIROLAMO, Rocco
H04W 4/12	10.01.2014	(31) 201762607006 P
H04W 4/21	29.12.2013	(32) 18.12.2017
H04L 12/18	23.12.2013	(33) United States of America
H04L 12/58	03.12.2013	(51) H04W 12/08
(11) EP2853102	20.11.2013	H04W 8/18
(21) EP13793285.1	13.11.2013	H04W 36/14
(47) 09.02.2022	29.10.2013	H04W 48/04
(87) CN2013075282	23.10.2013	(11) EP3725109
28.11.2013	30.09.2013	(21) EP18811039.9
(22) 07.05.2013	08.08.2013	(47) 09.02.2022
(54) LOCATION-BASED GROUP	06.08.2013	(87) EP2018083513
GENERATION METHOD, APPARATUS	26.07.2013	20.06.2019
AND SYSTEM	(33) United States of America	(22) 04.12.2018
(73) Tencent Technology (Shenzhen)	United States of America	(54) METHOD OF MANAGING A TAMPER-
Company Limited	United States of America	PROOF DEVICE COMPRISING
(72) GUO, Bo	United States of America	A PLURALITY OF SOFTWARE
(31) 201210157709	United States of America	CONTAINERS
(32) 21.05.2012	United States of America	(73) Gemalto Holding Pte Ltd Branch in Korea
(33) China	United States of America	Thales Dis France SAS
(51) H04W 4/20	United States of America	(72) COURTIADÉ, Fabien
H04L 5/00	United States of America	BOGUSZ, François
(11) EP3614703	United States of America	(31) 17306765
(21) EP17907284.8	United States of America	(32) 13.12.2017
(47) 09.02.2022	United States of America	(33) European Patent Office (EPO)
(87) CN2017082239	United States of America	(51) H04W 12/80
01.11.2018	United States of America	H04L 29/06
(22) 27.04.2017	United States of America	H04L 9/32
(54) METHOD FOR TRANSMITTING	(51) H04W 8/26	(11) EP3821578
REFERENCE SIGNAL, TERMINAL AND	H04W 84/12	(21) EP18747026.5
NETWORK DEVICE	H04L 29/08	(47) 09.02.2022
(73) GUANGDONG OPPO MOBILE	H04W 48/08	(87) SE2018050766
TELECOMMUNICATIONS CORP., LTD.	H04W 72/12	16.01.2020
(72) TANG, Hai	H04L 29/06	(22) 13.07.2018
ZHANG, Zhi	(11) EP3264813	(54) VERIFICATION OF LAWFUL
(21) EP15883406.9	(21) EP15883406.9	INTERCEPTION DATA

(73) Telefonaktiebolaget LM Ericsson (publ)	(51) H04W 28/08	15.02.2018
(72) SANTORO, Pompeo	H04W 80/12	(22) 14.08.2017
PAPPACENA, Laura	H04W 76/12	(54) CORE NETWORK AND BASE STATION
IMBIMBO, Amedeo	H04W 92/04	(73) NTT DOCOMO, INC.
(51) H04W 24/08	(11) EP3589073	(72) TAKAHASHI, Hideaki
H04W 36/08	(21) EP19184123.8	MATSUKAWA, Ryusuke
H04W 48/20	(47) 09.02.2022	HAPSARI, Wuri Andarmawanti
H04W 36/16	(22) 05.04.2017	UCHINO, Tooru
H04W 36/30	(54) MULTIPLE SCTP ASSOCIATIONS PER	(31) 2016158761
(11) EP3595350	S1AP CONNECTION AND MOVING	(32) 12.08.2016
(21) EP17901661.3	S1AP SIGNALING CONNECTION	(33) Japan
(47) 09.02.2022	BETWEEN SCTP ASSOCIATIONS	(51) H04W 36/14
(87) CN2017077926	(73) Telefonaktiebolaget LM Ericsson (Publ)	H04W 36/22
27.09.2018	(72) MILDH, Gunnar	H04W 36/26
(22) 23.03.2017	CENTONZA, Angelo	H04W 36/30
(54) SWITCHING METHOD, NETWORK	PORFIRI, Claudio	(11) EP3692741
DEVICE AND TERMINAL DEVICE	ZEE, Oscar	(21) EP18796713.8
(73) GUANGDONG OPPO MOBILE	(31) 201662321570 P	(47) 09.02.2022
TELECOMMUNICATIONS CORP., LTD.	201662321530 P	(87) FR2018052427
(72) LIU, Jianhua	(32) 12.04.2016	11.04.2019
YANG, Ning	12.04.2016	(22) 02.10.2018
(51) H04W 24/10	(33) United States of America	(54) METHOD FOR TRANSFERRING
H04W 72/04	United States of America	A MOBILE TERMINAL BETWEEN
H04W 52/02	(51) H04W 36/00	ACCESS STATIONS IN A MULTI-
H04W 24/02	(11) EP3837884	OPERATOR CONTEXT
H04W 4/70	(21) EP19745801.1	(73) ORANGE
H04B 1/036	(47) 09.02.2022	(72) QUINTUNA RODRIGUEZ, Veronica
H04B 7/0413	(87) SE2019050667	Karina
H04W 24/04	20.02.2020	MARJOU, Xavier
(11) EP3718359	(22) 04.07.2019	FROMJOUTOUX, Gaël
(21) EP19865392.5	(54) FIRST NETWORK NODE, SECOND	(31) 1759353
(47) 09.02.2022	NETWORK NODE, WIRELESS DEVICE	(32) 05.10.2017
(87) KR2019012739	AND METHODS PERFORMED	(33) France
02.04.2020	THEREBY FOR HANDLING A LINK	(51) H04W 36/14
(22) 30.09.2019	SWITCH	H04W 36/30
(54) APPARATUS AND METHOD FOR	(73) TELEFONAKTIEBOLAGET LM	H04W 88/06
TRANSMITTING ASSISTANCE	ERICSSON (PUBL)	G10L 19/005
INFORMATION IN A WIRELESS	(72) JOHANSSON, Nicklas	(11) EP3536034
COMMUNICATION SYSTEM	DA SILVA, Icaro L. J.	(21) EP17794368.5
(73) Samsung Electronics Co., Ltd.	BIN REDHWAN, Sakib	(47) 09.02.2022
(72) VAN DER VELDE, Himke	EK, Sofia	(87) FR2017052792
(31) 201913925	RAMACHANDRA, Pradeepa	11.05.2018
201817952	MOOSAVI, Reza	(22) 11.10.2017
201815917	(31) 201862765000 P	(54) SWITCHOVER FROM A FIRST
(32) 26.09.2019	(32) 17.08.2018	COMMUNICATION INTERFACE TO
02.11.2018	(33) United States of America	A SECOND IN ORDER TO IMPROVE
28.09.2018	(51) H04W 36/00	THE PERCEIVED QUALITY OF THE
(33) United Kingdom	H04W 8/22	COMMUNICATION
United Kingdom	H04W 36/12	(73) ORANGE
United Kingdom	(11) EP3361777	(72) THOMAS, Jean-Philippe
(51) H04W 28/02	(21) EP18155628.3	(31) 1660671
H04L 12/801	(47) 09.02.2022	(32) 04.11.2016
H04L 29/06	(22) 07.02.2018	(33) France
H04W 36/00	(54) DEVICE AND METHOD FOR	(51) H04W 48/00
(11) EP3648503	HANDLING EVOLVED LONG-TERM	H04W 74/00
(21) EP18838091.9	EVOLUTION NETWORK	(11) EP3711365
(47) 09.02.2022	(73) HTC Corporation	(21) EP18815349.8
(87) CN2018090866	(72) WU, Chih-Hsiang	(47) 09.02.2022
31.01.2019	(31) 201762456673 P	(87) IB2018059061
(22) 12.06.2018	(32) 09.02.2017	23.05.2019
(54) CONGESTION CONTROL METHOD	(33) United States of America	(22) 16.11.2018
AND RELATED DEVICE	(51) H04W 36/02	(54) INFORMATION EXCHANGE FOR
(73) Huawei Technologies Co., Ltd.	H04W 88/08	INITIAL USER EQUIPMENT ACCESS
(72) WANG, Yan	H04W 88/14	(73) Telefonaktiebolaget LM Ericsson (publ)
LI, Yexing	(11) EP3499960	(72) FIORANI, Matteo
(31) 201710637331	(21) EP17839609.9	PAPPA, Ioanna
(32) 27.07.2017	(47) 09.02.2022	CENTONZA, Angelo
(33) China	(87) JP2017029324	(31) 201762587652 P

(32) 17.11.2017	(54) SELECTION OF AN ACCESS NETWORK CONDITIONED BY CELLULAR ACCESS TECHNOLOGY	(22) 24.03.2017
(33) United States of America	(73) ORANGE	(54) SYNCHRONISATION SIGNAL MEASUREMENT METHOD AND RELATED DEVICE
(51) H04W 48/12	(72) DAOUD TRIKI, Khadija	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
H04L 1/18	MOUQUET, Antoine	(72) ZHANG, Zhi
(11) EP3619961	(31) 1357002	(51) H04W 60/04
(21) EP18725018.8	(32) 16.07.2013	H04W 68/00
(47) 09.02.2022	(33) France	H04W 76/27
(87) SE2018050448	(51) H04W 52/02	H04W 36/00
08.11.2018	H04W 72/04	H04W 76/38
(22) 02.05.2018	H04W 74/00	H04W 92/24
(54) REQUESTING SYSTEM INFORMATION IN A WIRELESS COMMUNICATION NETWORK	H04W 88/06	(11) EP3598812
(73) Telefonaktiebolaget LM Ericsson (Publ)	(11) EP3871449	(21) EP18767058.3
(72) RUNE, Johan	(21) EP19836375.6	(47) 09.02.2022
WIEMANN, Henning	(47) 09.02.2022	(87) KR2018002693
BERGQVIST, Jens	(87) US2019066172	20.09.2018
PEISA, Janne	02.07.2020	(22) 07.03.2018
(31) 201762502037 P	(22) 13.12.2019	(54) NOTIFYING A MOBILITY EVENT IN A WIRELESS COMMUNICATION SYSTEM
(32) 05.05.2017	(54) USER EQUIPMENT LIMITED-SERVICE MODE	(73) LG Electronics Inc.
(33) United States of America	(73) Google LLC	(72) RYU, Jinsook
(51) H04W 48/12	(72) STAUFFER, Erik Richard	YOUN, Myungjune
H04W 48/16	WANG, Jibing	(31) 201762471966 P
H04W 52/02	(31) 201862786197 P	(32) 16.03.2017
H04W 68/02	(32) 28.12.2018	(33) United States of America
H04W 72/04	(33) United States of America	(51) H04W 68/02
H04B 7/02	(51) H04W 52/02	H04W 68/12
H04B 7/06	H04W 76/27	H04W 88/06
(11) EP3654573	H04W 68/02	(11) EP3607788
(21) EP19823624.2	(11) EP3607782	(21) EP18794898.9
(47) 09.02.2022	(21) EP18738072.0	(47) 09.02.2022
(87) CN2019088738	(47) 09.02.2022	(87) KR2018005203
26.12.2019	(87) US2018037381	08.11.2018
(22) 28.05.2019	(22) 13.06.2018	(22) 04.05.2018
(54) METHOD AND APPARATUS FOR REDUCING THE POWER CONSUMPTION OF A COMMUNICATION DEVICE	(54) MOBILE DEVICE POWER MANAGEMENT	(54) METHODS AND SYSTEMS FOR PERFORMING PAGING OPERATIONS IN A 5G NETWORK
(73) HUAWEI TECHNOLOGIES CO., LTD.	(73) Google LLC	(73) Samsung Electronics Co., Ltd.
(72) CHAI, Li	(72) LIN, Victor	(72) JANGID, Alok Kumar
CHEN, Lei	TULI, Amol	BAEK, Young-kyo
LI, Bingzhao	(31) 201715669819	UTTUR, Govind Irappa
(31) 201810646206	(32) 04.08.2017	HASHMI, Danish Ehsan
(32) 21.06.2018	(33) United States of America	SHAH, Nitesh Pushpak
(33) China	(51) H04W 52/18	KUMAR, Lalith
(51) H04W 48/12	H04W 52/14	JHA, Kailash Kumar
H04W 56/00	H04W 52/28	(31) 201741015976
H04L 5/00	(11) EP3413638	201741021399
(11) EP3720036	(21) EP17753284.3	201741015976
(21) EP17933957.7	(47) 09.02.2022	(32) 30.04.2018
(47) 09.02.2022	(87) JP2017005748	19.06.2017
(87) CN2017116678	24.08.2017	05.05.2017
13.06.2019	(22) 16.02.2017	(33) India
(22) 15.12.2017	(54) USER EQUIPMENT, WIRELESS BASE STATION, AND WIRELESS COMMUNICATION METHOD	India
(54) WIRELESS COMMUNICATION METHODS AND DEVICES	(73) NTT DOCOMO, INC.	India
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(72) NAGATA, Satoshi	(51) H04W 72/02
(72) ZHANG, Zhi	TAKEDA, Kazuki	H04W 72/04
TANG, Hai	(31) 2016029884	H04B 7/06
(31) PCT/CN2017/114876	(32) 19.02.2016	(11) EP3456117
(32) 06.12.2017	(33) Japan	(21) EP17795552.3
(33) World Intellectual Property Office (WIPO)	(51) H04W 56/00	(47) 09.02.2022
(51) H04W 48/18	(11) EP3589035	(87) CN2017083767
(11) EP3579620	(21) EP17902471.6	16.11.2017
(21) EP19162207.5	(47) 09.02.2022	(22) 10.05.2017
(47) 09.02.2022	(87) CN2017078072	(54) HYBRID CLASS B FD-MIMO
(22) 15.07.2014	27.09.2018	(73) Qualcomm Incorporated
		(72) WEI, Chao

ZHANG, Yu	H04W 72/12	(22) 15.11.2016
CHEN, Bo	H04L 5/00	(54) METHODS AND APPARATUSES FOR PERFORMING A RESUME PROCEDURE
HOU, Jilei	H04L 1/00	(73) Telefonaktiebolaget LM Ericsson (PUBL)
(31) PCT/CN2016/081854	(11) EP3668216	(72) OHLSSON, Oscar
(32) 12.05.2016	(21) EP18843762.8	STATTIN, Magnus
(33) World Intellectual Property Office (WIPO)	(47) 09.02.2022	(31) 201562256378 P
(51) H04W 72/04	(87) CN2018098290	(32) 17.11.2015
H04L 1/18	14.02.2019	(33) United States of America
(11) EP3478011	(22) 02.08.2018	(51) H04W 88/16
(21) EP17814568.6	(54) METHOD FOR MONITORING PDCCH, NETWORK DEVICE, AND TERMINAL	H04W 24/02
(47) 09.02.2022	(73) Vivo Mobile Communication Co., Ltd.	(11) EP3886532
(87) CN2017086219	(72) SHEN, Xiaodong	(21) EP20165229.4
28.12.2017	LU, Zhi	(47) 09.02.2022
(22) 26.05.2017	JIANG, Lei	(22) 24.03.2020
(54) PHYSICAL UPLINK SHARED CHANNEL DATA TRANSMISSION METHOD AND DEVICE	PAN, Xueming	(54) BROADBAND ACCESS FOR 5G CAPABLE RESIDENTIAL GATEWAYS
(73) Datang Mobile Communications Equipment Co., Ltd.	(31) 201710687280	(73) Deutsche Telekom AG
(72) PAN, Xueming	(32) 11.08.2017	(72) WEIERSHAUSEN, Werner
GAO, Xuejuan	(33) China	KOLBE, Hans-Jörg
(31) 201610671946	(51) H04W 72/12	HAAG, Thomas
201610639333	H04W 88/08	TERLINDE, Egbert
201610460685	(11) EP3544357	(51) H05B 3/00
(32) 15.08.2016	(21) EP17874987.5	G05F 3/26
05.08.2016	(47) 09.02.2022	G05F 3/30
22.06.2016	(87) KR2017013635	H03K 3/282
(33) China	31.05.2018	(11) EP3653019
China	(22) 28.11.2017	(21) EP18735337.0
China	(54) METHOD AND APPARATUS FOR SCHEDULING IN WIRELESS COMMUNICATION SYSTEM	(47) 09.02.2022
(51) H04W 72/04	(73) Samsung Electronics Co., Ltd.	(87) EP2018068516
H04L 5/00	Korea Advanced Institute of Science and Technology	17.01.2019
(11) EP3606242	(72) JEON, Joseph	(22) 09.07.2018
(21) EP18877889.8	CHONG, Song	(54) DEVICE FOR REGENERATING ELECTRONIC COMPONENTS IN A NUCLEAR ENVIRONMENT
(47) 09.02.2022	CHOI, Okyoung	(73) Commissariat à l'Énergie Atomique et aux Énergies Alternatives
(87) CN2018113996	KO, Jaeyun	(72) ARMANI, Jean-Marc
23.05.2019	(31) 20160159145	(31) 1756630
(22) 05.11.2018	(32) 28.11.2016	(32) 12.07.2017
(54) DATA TRANSMISSION METHOD AND APPARATUS	(33) Korea (Republic)	(33) France
(73) Huawei Technologies Co., Ltd.	(51) H04W 74/08	(51) H05B 3/84
(72) TANG, Zhenfei	H04W 72/12	G01S 13/93
WANG, Yi	H04L 5/00	(11) EP3629675
TANG, Hao	(11) EP3490328	(21) EP19196846.0
ZENG, Xin	(21) EP19150733.4	(47) 09.02.2022
WANG, Ting	(47) 09.02.2022	(22) 12.09.2019
CAO, Yongzhao	(22) 18.08.2015	(54) OBJECT SENSOR INCLUDING DEPOSITED HEATER
(31) 201711188610	(54) COMMUNICATION ON LICENSED AND UNLICENSED BANDS	(73) Aptiv Technologies Limited
(32) 17.11.2017	(73) Samsung Electronics Co., Ltd.	(72) SCHULTZ, Claudia
(33) China	(72) Zhang, Jianzhong	SCHERER, Jarod M.
(51) H04W 72/04	Ng, Boon Loong	WHEATON, Michael E.
H04L 5/00	Papasakellariou, Aris	ANTAYA, Stephen C.
H04L 1/16	(31) 201514826813	(31) 201816140740
H04L 1/00	201462038673 P	(32) 25.09.2018
H04L 1/08	(32) 14.08.2015	(33) United States of America
(11) EP3742850	18.08.2014	(51) H05B 6/76
(21) EP20155197.5	(33) United States of America	F24C 7/02
(47) 09.02.2022	United States of America	H05B 6/80
(22) 12.08.2015	(51) H04W 76/27	H05B 6/64
(54) UPLINK CONTROL INFORMATION SENDING METHOD, UPLINK CONTROL INFORMATION RECEIVING METHOD, APPARATUS, AND SYSTEM	H04W 12/06	(11) EP3087808
(73) HUAWEI TECHNOLOGIES CO., LTD.	H04W 4/70	(21) EP13900520.1
(72) YAN, Zhiyu	H04L 29/06	(47) 09.02.2022
GUAN, Lei	(11) EP3378273	(87) US2013077427
LYU, Yongxia	(21) EP16801591.5	02.07.2015
(51) H04W 72/04	(47) 09.02.2022	(22) 23.12.2013
	(87) IB2016056867	
	26.05.2017	

(54) MULTIPLE CAVITY MICROWAVE OVEN DOOR	(51) H05H 1/46	(11) EP3537854
(73) Whirlpool Corporation	(11) EP3329748	(21) EP19161025.2
(72) SPAGNOLI, Luana	(21) EP16832383.0	(47) 09.02.2022
(51) H05B 41/36	(47) 09.02.2022	(22) 06.03.2019
H05B 45/325	(87) IB2016054300	(54) PRODUCTION METHOD OF CIRCUIT BOARD
H05B 45/395	09.02.2017	(73) STANLEY ELECTRIC CO., LTD.
(11) EP2550846	(22) 20.07.2016	(72) HANYA, Akihiko
(21) EP10828678.2	(54) CHAMBERS FOR MICROWAVE PLASMA GENERATION AND RELATED METHODS	(31) 2018042331
(47) 09.02.2022	(73) Agilent Technologies, Inc.	(32) 08.03.2018
(87) US2010003124	(72) HAMMER, Mike	(33) Japan
12.05.2011	(31) 2015903047	(51) H05K 3/28
(22) 08.12.2010	(32) 31.07.2015	G03F 7/027
(54) SYSTEM AND METHOD FOR LIGHTING POWER AND CONTROL SYSTEM	(33) Australia	G03F 7/40
(73) Neofocal Systems, Inc.	(51) H05H 1/46	H05K 3/34
(72) SHIMOMURA, Tsutomu	H05H 1/24	H05K 1/02
BEYER, Dale	(11) EP2984908	H05K 1/03
PETING, Mark	(21) EP14783150.7	(11) EP3582005
(31) 590449	(47) 09.02.2022	(21) EP17895990.4
(32) 06.11.2009	(87) US2014033191	(47) 09.02.2022
(33) United States of America	16.10.2014	(87) JP2017007954
(51) H05B 45/10	(22) 07.04.2014	16.08.2018
H05B 47/19	(54) CAPACITIVELY COUPLED DEVICES	(22) 28.02.2017
(11) EP3716731	(73) PerkinElmer Health Sciences, Inc.	(54) PHOTSENSITIVE RESIN COMPOSITION, SOLDER RESIST FILM USING SAID PHOTSENSITIVE RESIN COMPOSITION, FLEXIBLE PRINTED CIRCUIT, AND IMAGE DISPLAY DEVICE
(21) EP19165056.3	(72) MORRISROE, Peter	(73) Arisawa Mfg. Co., Ltd.
(47) 09.02.2022	(31) 201361809654 P	(72) GONDAIRA, Takashi
(22) 26.03.2019	(32) 08.04.2013	TAI, Makoto
(54) ISOLATED DRIVER MODULE WITH INDICATOR LED FOR COMMUNICATION	(33) United States of America	(31) 2017020628
(73) Tridonic GmbH & Co. KG	(51) H05K 1/02	(32) 07.02.2017
(72) Wilson, Ian	(11) EP2728976	(33) Japan
(51) H05B 45/44	(21) EP13190224.9	(51) H05K 5/00
(11) EP3030052	(47) 09.02.2022	(11) EP3284327
(21) EP14832539.2	(22) 25.10.2013	(21) EP16707702.3
(47) 09.02.2022	(54) Printed circuit board with reduced emission of electro-magnetic radiation	(47) 09.02.2022
(87) CN2014081411	(73) STMicroelectronics S.r.l.	(87) EP2016054170
05.02.2015	NXP USA, Inc.	20.10.2016
(22) 01.07.2014	(72) Rotigni, Mario	(22) 26.02.2016
(54) DYNAMIC CONFIGURATION FOR SUBSECTION LED DRIVING DEVICE AND LED ILLUMINATION DEVICE	Moseley, Richard	(54) ELECTRONICS MODULE FOR A TRANSMISSION CONTROLLER
(73) Shenzhen Sendis Semiconductor Co., Ltd	Edgington, Gregory C.	(73) Robert Bosch GmbH
(72) CHEN, Bo	Bhatt, Piyush	(72) LISKOW, Uwe
DENG, Xunsheng	(31) MI20121847	(31) 102015207048
MAI, Yanquan	(32) 30.10.2012	(32) 17.04.2015
CHEN, Xiaoyu	(33) Italy	(33) Germany
(31) 201310327523	(51) H05K 1/02	(51) H05K 5/04
(32) 31.07.2013	H05K 1/18	C23C 4/02
(33) China	F21S 4/22	C23C 4/08
(51) H05F 3/04	(11) EP3427555	C23C 14/02
(11) EP3687261	(21) EP17710052.6	C23C 14/16
(21) EP19215432.6	(47) 09.02.2022	C23C 24/04
(47) 09.02.2022	(87) IB2017050711	C23C 28/02
(22) 11.12.2019	14.09.2017	H01Q 1/24
(54) ELECTROSTATIC DISCHARGE DEVICE	(22) 09.02.2017	H01Q 1/38
(73) Midas Wei Trading Co., Ltd.	(54) A LIGHTING DEVICE AND CORRESPONDING METHOD	(11) EP3525559
Champion Elite Company Limited	(73) OSRAM GmbH	(21) EP17870315.3
(72) Wei, Tao-Chin	(72) BALDO, Lorenzo	(47) 09.02.2022
Liu, Yi Cheng	VOLPATO, Luca	(87) CN2017085762
Liu, Yuan-Ping	DIDONE', Roberto	17.05.2018
(31) 108102443	GRIFFONI, Alessio	(22) 24.05.2017
(32) 22.01.2019	(31) UA20161402	(54) METAL CASING AND MANUFACTURING METHOD THEREOF
(33) Taiwan, Province of China	(32) 07.03.2016	(73) Huawei Technologies Co., Ltd.
	(33) Italy	(72) MA, Rong
	(51) H05K 1/09	
	H05K 3/12	
	H05K 3/40	
	H05K 1/03	

WANG, Yongxiang	(31) 1551313
CAI, Ming	(32) 17.02.2015
KE, Youhe	(33) France
(31) 201611029701	(51) H05K 13/02
(32) 14.11.2016	H01L 21/52
(33) China	H05K 13/08
(51) H05K 7/14	H05K 13/04
G12B 9/08	H01L 21/683
(11) EP3646680	(11) EP3651561
(21) EP17916239.1	(21) EP17916781.2
(47) 09.02.2022	(47) 09.02.2022
(87) US2017039259	(87) JP2017024510
03.01.2019	10.01.2019
(22) 26.06.2017	(22) 04.07.2017
(54) DISPLAY ARM TO HOUSING CONNECTORS	(54) COMPONENT MOUNTING DEVICE
(73) Hewlett-Packard Development Company, L.P.	(73) Fuji Corporation
(72) CHEN, Chih Chien	(72) KAWAGUCHI, Koji
CHIANG, Wei Ju	
FRANKE, Gregory C.	
(51) H05K 7/20	
(11) EP2773172	
(21) EP14154793.5	
(47) 09.02.2022	
(22) 12.02.2014	
(54) Plurality of cooling devices and hydraulic distributor	
(73) BULL SAS	
(72) Demange, Fabien	
Bonnin, Jean-Christophe	
(31) 1351780	
(32) 28.02.2013	
(33) France	
(51) H05K 7/20	
(11) EP3589102	
(21) EP19181416.9	
(47) 09.02.2022	
(22) 20.06.2019	
(54) HEAT TRANSFER STRUCTURE, POWER ELECTRONICS MODULE, COOLING ELEMENT, METHOD OF MANUFACTURING A HEAT TRANSFER STRUCTURE AND METHOD OF MANUFACTURING A POWER ELECTRONICS COMPONENT	
(73) ABB Schweiz AG	
(72) Ingman, Kjell	
Manninen, Jorma	
Silvennoinen, Mika	
(31) 201816023252	
(32) 29.06.2018	
(33) United States of America	
(51) H05K 9/00	
H01R 13/6598	
H01R 13/6463	
H01B 11/14	
(11) EP3259969	
(21) EP16707929.2	
(47) 09.02.2022	
(87) FR2016050358	
25.08.2016	
(22) 16.02.2016	
(54) MAGNETIC SHIELD FOR THE END OF A MULTIWIRED CABLE	
(73) Safran Electrical & Power	
(72) JULLIEN, Charles	
BIESSE, Jean-Luc	

**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) A01C 7/08 A01C 7/10	INSERTS, SHARE AND METHODS OF MANUFACTURE AND MAINTENANCE	(74) ir. W.J.J.M. Kempes (31) 201816233155
(11) EP3662731	(73) Exel Industries	(32) 27.12.2018
(21) EP19212544.1	(72) RICHTER, Eduard	(33) United States of America
(22) 29.11.2019	(74) ir. M.F.J.M. Ketelaars c.s.	(47) 17.11.2021
(54) MACHINE FOR SPREADING GRANULAR SOLIDS WITH A PNEUMATIC CONVEYING SYSTEM	(47) 24.11.2021	(51) A01K 1/01
(73) Lemken GmbH & Co KG	(51) A01F 15/14	(11) EP3139734
(72) Gotzen, Christian	(11) EP3788865	(21) EP15726381.5
Bergerfurth, Dennis	(21) EP19195962.6	(22) 21.04.2015
(74) ir. M.F.J.M. Ketelaars c.s.	(22) 06.09.2019	(54) AN AUTONOMOUS SELF-PROPELLED MANURE REMOVAL VEHICLE
(31) 102018130637	(54) YARN KNOT	(73) Lely Patent N.V.
(32) 03.12.2018	(73) Rasspe Systemtechnik GmbH	(72) MUNNEKE, Harrold Jan
(33) Germany	(74) J.M.H. Duyver lic.	VAN DEN BEUKEL, Huibrecht Johannes Arjen
(47) 10.11.2021	(47) 03.11.2021	(74) ir. M.J.F.M. Corten
(51) A01C 7/08 A01C 7/10	(51) A01G 9/02	(31) 2012785
(11) EP3662732	A01G 31/02	(32) 08.05.2014
(21) EP19212693.6	(11) EP3614829	(33) Netherlands
(22) 29.11.2019	(21) EP18726219.1	(47) 24.11.2021
(54) AGRICULTURAL MACHINE FOR SPREADING GRANULAR SOLIDS WITH A PNEUMATIC CONVEYING SYSTEM	(22) 24.04.2018	(51) A01K 1/12
(73) Lemken GmbH & Co KG	(54) SINGLE-PIECE FLOATING TRAY FOR HYDROPONIC CULTIVATION AND METHOD FOR HYDROPONIC CULTIVATION	(11) EP3634117
(72) Bergerfurth, Dennis	(73) Ghirlanda, Martino	(21) EP18733356.2
Gotzen, Christian	Ghirlanda, Damiano	(22) 05.06.2018
(74) ir. M.F.J.M. Ketelaars c.s.	(72) Ghirlanda, Martino	(54) CONTROL SYSTEM FOR A ROTARY MILKING PARLOR AND METHOD OF CONTROLLING A ROTARY MILKING PARLOR
(31) 102018130638	Ghirlanda, Damiano	(73) DeLaval Holding AB
(32) 03.12.2018	(74) ir. A.R. Aalbers	(72) RYBCZYNSKI, Krzysztof
(33) Germany	(31) 201700045518	(74) dr. W.A.H.M. Van Borm
(47) 10.11.2021	(32) 27.04.2017	(31) 1750719
(51) A01C 21/00 A01B 79/00 A01C 15/00	(33) Italy	(32) 07.06.2017
(11) EP3620042	(47) 27.10.2021	(33) Sweden
(21) EP19193571.7	(51) A01G 24/17	(47) 29.12.2021
(22) 26.08.2019	A01G 24/18	(51) A01K 63/04
(54) ENVIRONMENT INFORMATION COLLECTING SYSTEM AND AIRCRAFT	(11) EP3706553	B01D 29/64
(73) Yokogawa Electric Corporation	(21) EP17804090.3	B07B 1/52
(72) Taniguchi, Koichi	(22) 06.11.2017	C05F 7/00
Iga, Mitsuhiro	(54) CEMENT-FREE POROUS SUBSTRATE FOR PLANT GERMINATION AND GROWTH MADE OF ALKALI- ACTIVATED POZZOLANS	C02F 11/12
(74) dr. ir. F.M. van Bouwelen	(73) Cemex Innovation Holding Ltd.	F26B 5/14
(31) 2018165872	(72) HITTI, Yasmeen	(11) EP3342283
(32) 05.09.2018	CHAPELAT, Julien	(21) EP17209248.8
(33) Japan	LEFSRUD, Mark Gregory	(22) 21.12.2017
(47) 12.01.2022	ZAMPINI, Davide	(54) FISH FARMING SYSTEM
(51) A01D 25/02 A01B 15/04	GUERINI, Alexandre	(73) NP Innovation AB
(11) EP3643156	(74) dr. W.A.H.M. Van Borm	(72) PERSSON, Nils-Åke
(21) EP18306381.7	(47) 29.12.2021	(74) ir. M.F.J.M. Ketelaars c.s.
(22) 23.10.2018	(51) A01J 25/00	(31) 1651750
(54) INSERT FOR A SHARE FOR UPROOTING ROOT CROP, CORRESPONDING SET OF	A01J 25/11	(32) 29.12.2016
(73) Tetra Laval Holdings & Finance S.A.	(11) EP3673730	(33) Sweden
(72) OLSON, Michael	(21) EP19216656.9	(47) 27.10.2021
JOHNSON, Kyle	(22) 16.12.2019	(51) A01M 7/00
	(54) AUGER ASSEMBLY FOR CONVEYING CHEESE CURD	(11) EP3634124
	(73) Amazonen-Werke H. Dreyer SE & Co. KG	(21) EP18728058.1
		(22) 17.05.2018
		(54) SPRAY BOOM
		(73) Amazonen-Werke H. Dreyer SE & Co. KG

(72) KLEMANN, Timo KÜHN, Christoph BORCHERT, Anna-Gret	A23C 19/06 A23C 19/064 A23C 9/142	(33) European Patent Office (EPO) (47) 03.11.2021
(74) ir. M.F.J.M. Ketelaars c.s. (31) 102017114637 102017112498	A23C 9/146 A23C 19/05 (11) EP3393264	(51) A23K 10/00 A23K 50/00 A23K 10/40 A23K 10/12 A23K 10/16 A23K 20/158 A23K 20/163 A23K 40/25 A23K 50/80 A23K 40/30
(32) 30.06.2017 07.06.2017	(21) EP16879453.5 (22) 23.12.2016	(11) EP3200604 (21) EP15767149.6 (22) 22.09.2015
(33) Germany Germany	(54) DAIRY PRODUCT AND PROCESSES (73) Fonterra Co-Operative Group Limited	(54) METHOD FOR PREPARING AN ANIMAL FEED (73) Evonik Operations GmbH (74) ir. W.J.J.M. Kempes (31) 14187467 (32) 02.10.2014 (33) European Patent Office (EPO) (47) 03.11.2021
(47) 17.11.2021	(72) COKER, Christina Puryer HAVEA, Palatasa TAYLOR, Stephen Murray GILLIES, Graeme Shawn	(47) 03.11.2021
(51) A01M 7/00 B05B 9/08 B05B 9/04	(74) dr. W.A.H.M. Van Borm (31) 16716956 15715584 (32) 15.02.2016 24.12.2015 (33) New Zealand New Zealand (47) 01.12.2021	(47) 03.11.2021
(11) EP3406137 (21) EP18172673.8 (22) 16.05.2018 (54) DOSING DEVICE (73) Cooperativa Sociale la Pieve - Societa' Cooperativa - Onlus	(51) A23D 7/00 A23D 9/05 A23D 9/02 C11B 7/00 C11C 3/10 (11) EP3727004 (21) EP18714807.7 (22) 10.04.2018 (54) HARDSTOCK FAT COMPOSITION (73) Upfield Europe B.V. (72) WIERINGA, Jan Alders MEEUSE, Frederik Michiel DOL, Georg Christian (74) ir. J.C. Volmer c.s. (31) 17210045 (32) 22.12.2017 (33) European Patent Office (EPO) (47) 29.12.2021	(51) A23K 10/30 A23K 20/158 A23K 10/14 A23K 50/10 A23K 50/75 A23K 50/30 (11) EP3713424 (21) EP18807075.9 (22) 20.11.2018 (54) METHOD FOR TREATING FLAX SEEDS WITH A VIEW TO IMPROVING THE FOOD VALUE OF SAME (73) Valorex (74) ir. F.A. Geurts c.s. (31) 1760984 (32) 21.11.2017 (33) France (47) 03.11.2021
(72) PORTALE, Salvatore PORTALE, Francesco BALDRATI, Idio	(51) A23F 3/16 (11) EP3203854 (21) EP15782053.1 (22) 09.10.2015 (54) METHOD OF PRODUCING TEA SYRUP AND ICED TEA (73) Woodall, Guy (72) Woodall, Guy (74) dr. A. Krebs (31) 201417947 (32) 10.10.2014 (33) United Kingdom (47) 24.11.2021	(47) 03.11.2021
(74) ir. H.A. Witmans c.s. (31) 201700055422 (32) 22.05.2017 (33) Italy	(51) A23F 5/24 A23F 5/36 C12N 9/24 (11) EP3032959 (21) EP14752853.3 (22) 15.08.2014 (54) METHOD FOR PRODUCING A COFFEE EXTRACT EMPLOYING ENZYMES HAVING PRIMARILY ENDO-BETA-1,3-GALACTANASE ACTIVITY AND COFFEE EXTRACT PRODUCED (73) Novozymes A/S (74) ir. W.J.J.M. Kempes (31) 13180578 (32) 15.08.2013	(47) 03.11.2021
(47) 27.10.2021	(51) A01N 43/80 A01N 37/22 A01P 13/02 A01N 25/32 A01N 25/02 A01N 25/04 A01N 25/28 A01N 33/22 A01N 37/40 A01N 39/02 A01N 41/10 A01N 43/10 A01N 43/40 A01N 43/56 A01N 43/653 A01N 43/70 A01N 43/90 A01N 47/36 (11) EP3387907 (21) EP18176507.4 (22) 20.02.2015 (54) USE OF 3-ISOXAZOLIDONES AS SELECTIVE HERBICIDES (73) FMC Corporation (72) CHAHAL, Gurinderbir D' AMICO, Jr., Frank J. BURNETT, Alison WALTER, James F. LAPPIN, James SHINN, Sandra NICHOLSON, Paul (74) ir. W.J.J.M. Kempes (31) 201461951269 P 201461943437 P (32) 11.03.2014 23.02.2014 (33) United States of America United States of America (47) 20.10.2021	(51) A23L 2/60 C12N 15/03 C12N 1/21 (11) EP3407733 (21) EP17743868.6 (22) 27.01.2017 (54) PROCESS FOR EXTRACELLULAR SECRETION OF BRAZZEIN (73) Magellan Life Sciences Ltd. (72) DUKKIPATI, Abhiram BALAGANGADHAR, Aakruthi Vasihnavi (74) dr. W.A.H.M. Van Borm (31) 201641002922 (32) 27.01.2016 (33) India (47) 20.10.2021
(51) A01N 43/80 A01N 37/22 A01P 13/02 A01N 25/32 A01N 25/02 A01N 25/04 A01N 25/28 A01N 33/22 A01N 37/40 A01N 39/02 A01N 41/10 A01N 43/10 A01N 43/40 A01N 43/56 A01N 43/653 A01N 43/70 A01N 43/90 A01N 47/36 (11) EP3387907 (21) EP18176507.4 (22) 20.02.2015 (54) USE OF 3-ISOXAZOLIDONES AS SELECTIVE HERBICIDES (73) FMC Corporation (72) CHAHAL, Gurinderbir D' AMICO, Jr., Frank J. BURNETT, Alison WALTER, James F. LAPPIN, James SHINN, Sandra NICHOLSON, Paul (74) ir. W.J.J.M. Kempes (31) 201461951269 P 201461943437 P (32) 11.03.2014 23.02.2014 (33) United States of America United States of America (47) 20.10.2021	(51) A23L 2/60 C12N 15/03 C12N 1/21 (11) EP3407733 (21) EP17743868.6 (22) 27.01.2017 (54) PROCESS FOR EXTRACELLULAR SECRETION OF BRAZZEIN (73) Magellan Life Sciences Ltd. (72) DUKKIPATI, Abhiram BALAGANGADHAR, Aakruthi Vasihnavi (74) dr. W.A.H.M. Van Borm (31) 201641002922 (32) 27.01.2016 (33) India (47) 20.10.2021	(51) A23L 29/231 A23L 2/38 A23L 2/52 A23L 29/256 A23L 29/30 A23L 33/10 (11) EP3662764 (21) EP19218966.0 (22) 28.04.2017 (54) NUTRITIONAL SUPPLEMENTS (73) Laminaria Group AB

(72) Ström, Anna Ahnoff, Martin Sköld, Olov	(31) 102017106992 (32) 31.03.2017 (33) Germany (47) 10.11.2021	(33) European Patent Office (EPO) (47) 15.12.2021
(31) 1730056 1630098	(51) A24F 40/00 A24B 15/167	(51) A24F 40/46 A61M 11/04 A61M 15/06 H05B 3/12 H05B 3/34 H05B 3/42 A24F 40/10
(32) 03.03.2017 29.04.2016	(11) EP2890256 (21) EP13756925.7 (22) 23.08.2013	(11) EP3328223 (21) EP16753282.9 (22) 28.07.2016
(33) Sweden Sweden	(54) NICOTINE COMPOSITION	(54) E-VAPOR DEVICE INCLUDING HEATER STRUCTURE WITH RECESSED SHELL LAYER, AND METHOD
(47) 27.10.2021	(73) Kind Consumer Limited (72) MOYSES, Chris HEARN, Alex LOWE, Stuart Bhimsen GUPTA, Ritika	(73) Philip Morris Products S.A. (74) dr. W.A.H.M. Van Borm (31) 201615208969 201562198365 P
(51) A23L 33/19 A23C 9/15 A23C 9/146 A23L 2/66 A23C 9/142 A23J 3/08 B01D 15/08 A23L 33/10	(74) dr. A. Krebs (31) 201215273 (32) 28.08.2012 (33) United Kingdom (47) 27.10.2021	(31) 201615208969 201562198365 P (32) 13.07.2016 29.07.2015 (33) United States of America United States of America (47) 03.11.2021
(11) EP2592938 (21) EP11807119.0 (22) 15.07.2011 (54) DAIRY PRODUCT AND PROCESS (73) Fonterra Co-Operative Group Limited (72) DONK, Rochelle Kathleen BHASKAR, Ganugapati Vijaya GAO, Hongping	(51) A24F 40/46 (11) EP3737250 (21) EP19700680.2 (22) 11.01.2019 (54) AN AEROSOL-GENERATING DEVICE COMPRISING A PLASMONIC HEATING ELEMENT	(32) 13.07.2016 29.07.2015 (33) United States of America United States of America (47) 03.11.2021
(74) dr. W.A.H.M. Van Borm (31) 58684810 (32) 16.07.2010 (33) New Zealand (47) 24.11.2021	(73) Philip Morris Products S.A. (72) FASCIANI, Chiara BATISTA, Rui Nuno (74) dr. W.A.H.M. Van Borm (31) 18151495 (32) 12.01.2018 (33) European Patent Office (EPO) (47) 15.12.2021	(51) A42B 3/06 (11) EP3737253 (21) EP19700252.0 (22) 04.01.2019 (54) HELMET (73) MIPS AB (72) POMERING, Amy Louise (74) ir. M.F.J.M. Ketelaars c.s. (31) 201800255 (32) 08.01.2018 (33) United Kingdom (47) 08.12.2021
(51) A24C 5/01 A24C 5/47 A24D 3/02	(31) 18151495 (32) 12.01.2018 (33) European Patent Office (EPO) (47) 15.12.2021	(31) 201800255 (32) 08.01.2018 (33) United Kingdom (47) 08.12.2021
(11) EP3639681 (21) EP19210401.6 (22) 25.10.2013 (54) ASSEMBLY MACHINE FOR PRODUCING CIGARETTES, AND RELATIVE ASSEMBLY METHOD (73) G.D SOCIETA' PER AZIONI (72) GIANESE, Giampaolo EUSEPI, Ivan ESPOSTI, Marco SARTONI, Massimo	(51) A24F 40/46 A24F 40/57 A24F 40/50 (11) EP3648624 (21) EP18729993.8 (22) 14.06.2018 (54) AEROSOL-GENERATING SYSTEM WITH FOUR CONTACTS (73) Philip Morris Products S.A. (72) BILAT, Stephane (74) dr. W.A.H.M. Van Borm (31) 17180258 (32) 07.07.2017 (33) European Patent Office (EPO) (47) 15.12.2021	(31) 201800255 (32) 08.01.2018 (33) United Kingdom (47) 08.12.2021
(74) mr. ir. J. van Breda c.s. (31) BO20120582 (32) 25.10.2012 (33) Italy (47) 08.12.2021	(74) dr. W.A.H.M. Van Borm (31) 17180258 (32) 07.07.2017 (33) European Patent Office (EPO) (47) 15.12.2021	(73) Park&Diamond Inc. (72) HALL, David KLEIN, Jordan KOSTER, Zak (74) ir. W.J.J.M. Kempes (31) 201762478318 P (32) 29.03.2017 (33) United States of America (47) 10.11.2021
(51) A24C 5/46 (11) EP3381303 (21) EP18163299.3 (22) 22.03.2018 (54) METHOD FOR PRODUCING AT LEAST DOUBLE-LAYER TUBULAR STRANDS IN THE TOBACCO PROCESSING INDUSTRY AND DEVICE FOR PRODUCING AT LEAST DOUBLE- LAYER STRANDS OF TOBACCO (73) Hauni Maschinenbau GmbH (72) BLEWONSKA, Jan PEHMÖLLER, Jürgen PIECHACZEK, Roman SCHAFFORZ, Mathias PRIEN, Michael BRAST, Kevin (74) ir. F.A. Geurts c.s.	(51) A24F 40/46 A24F 40/85 A24F 40/465 A24F 40/20 (11) EP3727055 (21) EP18826619.1 (22) 18.12.2018 (54) AEROSOL-GENERATING DEVICE WITH EASY CLEAN HEATING CHAMBER (73) Philip Morris Products S.A. (72) MAHLER, Boris MAUROUX, Patrick FERNANDO, Keethan Dasnavis RUSCIO, Dani (74) dr. W.A.H.M. Van Borm (31) 17210344 (32) 22.12.2017	(51) A42B 3/32 A42B 3/12 A42B 3/06 (11) EP3500125 (21) EP18778207.3 (22) 28.03.2018 (54) HELMET (73) Park&Diamond Inc. (72) HALL, David KLEIN, Jordan KOSTER, Zak (74) ir. W.J.J.M. Kempes (31) 201762478318 P (32) 29.03.2017 (33) United States of America (47) 10.11.2021
		(51) A43B 23/08 A43B 7/08 (11) EP3694366 (21) EP18800469.1 (22) 10.10.2018 (54) BREATHABLE SAFETY TOE CAP WITH REINFORCED FLANGE AND BAND (73) Innex S.r.l. (72) DITERLIZZI, Antonio (74) ir. H.A. Witmans c.s. (31) 201700114741 (32) 11.10.2017 (33) Italy (47) 17.11.2021

(51) A45B 25/24 B65B 67/12	(74) drs. O. Griebing	(72) BRUNNER, Roland
(11) EP3721743	(31) PCT/CN2018/087388 18197842	(74) J.M.H. Duyver lic.
(21) EP18896136.1	(32) 17.05.2018	(31) 201900015198
(22) 26.12.2018	01.10.2018	(32) 29.08.2019
(54) UMBRELLA BAG BUNDLE, UMBRELLA BAG BUNDLE HOLDING STRUCTURE, AND BAG-OPENING DEVICE	(33) World Intellectual Property Office (WIPO) European Patent Office (EPO)	(33) Italy
(73) Niiikura Scales Co., Ltd.	(47) 27.10.2021	(47) 15.12.2021
(72) HIBINO, Maho	(51) A47J 31/36	(51) A47J 36/24
(74) ir. M.F.J.M. Ketelaars c.s.	A47J 31/52	(11) EP3745930
(31) 2017248896	(11) EP3364826	(21) EP19705031.3
(32) 26.12.2017	(21) EP16784888.6	(22) 29.01.2019
(33) Japan	(22) 20.10.2016	(54) ACTIVELY HEATED OR COOLED INFANT BOTTLE SYSTEM
(47) 08.12.2021	(54) IMPROVED ESPRESSO COFFEE MACHINE AND METHOD FOR DISPENSING AN ESPRESSO COFFEE	(73) Ember Technologies, Inc.
(51) A47B 31/02 A47B 13/08 A47B 33/00 A47F 3/04 A47B 37/00 A47F 10/06 E05D 3/18 E05D 11/10	(73) La Marzocco S.r.l.	(72) ALEXANDER, Clayton LEITH, Daren, John TIMPERI, Mikko, Juhani WAKEHAM, Christopher, Thomas GSHWANDTL, Martin
(11) EP3426092	(72) BIANCHI, Roberto BERNA, Tommaso GATTI, Riccardo	(74) J.M.H. Duyver lic.
(21) EP17763944.0	(74) ir. A. Blokland c.s.	(31) 201862624657 P
(22) 08.03.2017	(31) UB20154902	(32) 31.01.2018
(54) REFRIGERATED FOOD PREPARATION TABLE AND HINGE BRACKET FOR HOLDING LID PARTIALLY OR FULLY OPEN	(32) 22.10.2015	(33) United States of America
(73) True Manufacturing Co., Inc.	(33) Italy	(47) 29.12.2021
(72) WILMES, Daniel A. TRULASKE, SR., Steven Lee	(47) 29.12.2021	(51) A47K 5/12 B05B 1/30 B05B 11/00 B65D 47/20
(74) J. Hoekstra	(51) A47J 31/40 A47J 31/44	(11) EP3244782
(31) 201615063557	(11) EP3727107	(21) EP15878173.2
(32) 08.03.2016	(21) EP19705297.0	(22) 12.01.2015
(33) United States of America	(22) 05.02.2019	(54) A PUMP FOR A SYSTEM FOR DISPENSING A LIQUID AS A SPRAY, A SPRAY NOZZLE UNIT, A SYSTEM FOR DISPENSING A LIQUID AS A SPRAY AND A METHOD FOR DISPENSING A LIQUID AS A SPRAY
(47) 17.11.2021	(54) DEVICE AND METHOD FOR PRODUCING A BREWED BEVERAGE	(73) Essity Hygiene and Health Aktiebolag
(51) A47C 1/12 A47C 3/04 A47C 4/02	(73) Melitta Single Portions GmbH & Co. KG	(72) BERGMAN, Peter NILSSON, Hugo
(11) EP3513685	(72) PAHNKE, Jan	(74) ir. M.F.J.M. Ketelaars c.s.
(21) EP19152524.5	(74) ir. M.F.J.M. Ketelaars c.s.	(47) 29.12.2021
(22) 18.01.2019	(31) 102018105213	(51) A47L 15/50
(54) COUPLING MECHANISM FOR A DETACHABLE CHAIR	(32) 07.03.2018	(11) EP3747338
(73) Veba Event Products	(33) Germany	(21) EP20173387.0
(72) Vestjens, Bart	(47) 10.11.2021	(22) 07.05.2020
(74) ir. J.P.E. Brants	(51) A47J 31/44	(54) WASHING BASKET FOR DISHWASHERS
(31) 202018100290 U	(11) EP3262995	(73) FRIES PLANUNGS- UND MARKETINGGESELLSCHAFT m.b.H.
(32) 18.01.2018	(21) EP17180415.6	(72) Watzenegger, Tobias
(33) Germany	(22) 06.09.2016	(74) ir. A. Blokland c.s.
(47) 10.11.2021	(54) COFFEE MACHINE, MILK FOAMING SYSTEM AND MILK FOAMING METHOD	(31) 2102019
(51) A47J 27/00 A47J 27/62	(73) Eugster/Frisomag AG	(32) 03.06.2019
(11) EP3809925	(72) KUIPER, Jelmer Jeroen Fischer, Daniel Wildhaber, Michael Kern, Patrick VAN BOXTEL, Jaap Jozua VAN DER KAMP, Hedzer Michiel Adriaan NIJSEN, Andreas Jacobus Louis	(33) Austria
(21) EP19724441.1	(74) ir. M.F.J.M. Ketelaars c.s.	(47) 17.11.2021
(22) 14.05.2019	(31) 102015120237	(51) A61B 1/00
(54) COOKING APPLIANCE FOR COOKING WHOLE GRAINS SUCH AS WHOLE GRAIN RICE	(32) 23.11.2015	(11) EP3437540
(73) Koninklijke Philips N.V.	(33) Germany	(21) EP17773827.5
(72) JIN, Yafang LU, Weihua XIAO, Weimin TAN, Jingwei CHEN, Yun SU, Guangming	(47) 27.10.2021	(22) 20.02.2017
	(51) A47J 36/00 A47J 36/06 A47J 36/10 A47J 27/13	(54) ENDOSCOPE HOLDER WITH GRIPPING MEMBERS AND WITH ELASTIC MEMBERS
	(11) EP3785580	(73) Keio University Saitama Chamber Of Commerce And Industry Wako Industries Co., Ltd.
	(21) EP20189004.3	(74) ir. A.R. Aalbers
	(22) 31.07.2020	
	(54) A LOCK DEVICE FOR KITCHEN VESSELS	
	(73) Brunner S.r.l.	

(31) 2017014787 2016251858 2016069938	MENSINK, Michiel, Herman (74) ir. J.C. Volmer c.s. (31) 08075303	A61B 1/005 A61B 1/06 A61B 1/018
(32) 30.01.2017 26.12.2016 31.03.2016	(32) 17.04.2008 (33) European Patent Office (EPO) (47) 20.10.2021	G02B 23/24 (11) EP3769667 (21) EP19901183.4
(33) Japan Japan Japan	(51) A61B 3/00 A61B 3/10 A61B 3/117 A61B 5/00	(22) 29.01.2019 (54) FLEXIBLE TUBE-BASED DETECTION AND PACKAGING STRUCTURE AND IN-VIVO DETECTION DEVICE
(47) 03.11.2021	(11) EP2605694 (21) EP11745903.2 (22) 12.08.2011 (54) METHOD FOR DETECTING AMYLOID PROTEINS	(73) Innovex Medical Co., Ltd. (72) YAN, Hang ZHANG, Zimei GAO, Ruifeng TANG, Wei
(51) A61B 1/015 A61B 1/012 A61B 1/018 A61B 1/12 A61B 1/31 A61B 1/00 A61M 1/00	(73) Cognoptix, Inc. (72) NILAN, Dennis, J. KERBAGE, Charles VALVO, Vincent HARTUNG, Paul, D. CAGLE, Gerald, D.	(74) J.M.H. Duyver lic. (31) 201811570625 (32) 21.12.2018 (33) China (47) 22.12.2021
(11) EP3485796 (21) EP18214285.1 (22) 24.12.2014 (54) ANCILLARY VACUUM MODULE USABLE WITH AN ENDOSCOPE	(74) ir. M.F.J.M. Ketelaars c.s. (31) 201061425490 P 374131 P 11001148	(51) A61B 5/00 G06T 7/246 G06T 7/00 G06K 9/00 A61B 5/024 A61B 5/18
(73) Motus GI Medical Technologies Ltd. (72) HASSIDOV, Noam KOCHAVI, Eyal ARNON, Tzach LULEKO, Koby	(32) 21.12.2010 16.08.2010 11.02.2011 (33) United States of America United States of America European Patent Office (EPO) (47) 27.10.2021	(11) EP3395237 (21) EP18168310.3 (22) 19.04.2018 (54) IMPROVEMENTS IN OR RELATING TO IN-VEHICLE MONITORING
(74) ir. W.J.J.M. Kempes (31) 201361920499 P (32) 24.12.2013 (33) United States of America (47) 17.11.2021	(31) 201061425490 P 374131 P 11001148 (32) 21.12.2010 16.08.2010 11.02.2011 (33) United States of America United States of America European Patent Office (EPO) (47) 27.10.2021	(73) Oxehealth Limited (72) HUTCHINSON, Nicholas Dunkley (74) ir. M.F.J.M. Ketelaars c.s. (31) 201706449 (32) 24.04.2017 (33) United Kingdom (47) 01.12.2021
(51) A61B 1/06 A61B 1/04 A61B 1/00 A61B 1/05 H04N 5/232 G06T 3/00 H04N 5/225 H04N 5/262	(51) A61B 3/16 (11) EP3389470 (21) EP16816720.3 (22) 14.12.2016 (54) APPARATUS FOR MEASURING INTRAOCULAR PRESSURE	(51) A61B 5/11 A61B 5/00 G01C 19/5621 (11) EP3043712 (21) EP14776736.2 (22) 10.09.2014 (54) HEART MONITORING SYSTEM
(11) EP3539457 (21) EP19162015.2 (22) 14.03.2014 (54) IMAGE ROTATION USING SOFTWARE FOR ENDOSCOPIC APPLICATIONS	(73) ICARE FINLAND OY (72) HERRANEN, Teemu RAUDASOJA, Matti KUKKONEN, Ari PUKKI, Jussi MÄKKELI, Pauliina SALKOLA, Mika HAULISTO, Rami	(73) Murata Manufacturing Co., Ltd. Precordior Oy (72) MERIHEINÄ, Ulf SAIRANEN, Kati KOIVISTO, Tero JUPPO, Marika GRÖNHOLM, Markus PÄNKÄÄLÄ, Mikko
(73) DePuy Synthes Products, Inc. (72) BLANQUART, Laurent RICHARDSON, John HENLEY, Jeremiah, D. WICHERN, Donald, M.	(74) ir. A.R. Aalbers (31) 20155973 (32) 18.12.2015 (33) Finland (47) 27.10.2021	(74) ir. A.R. Aalbers (31) 20135924 (32) 13.09.2013 (33) Finland (47) 27.10.2021
(74) ir. M.F.J.M. Ketelaars c.s. (31) 201361792119 P (32) 15.03.2013 (33) United States of America (47) 08.12.2021	(51) A61B 5/00 (11) EP3171766 (21) EP15824495.4 (22) 27.07.2015 (54) APPARATUS FOR IN VIVO IMAGING AND DIAGNOSIS	(74) ir. A.R. Aalbers (31) 20135924 (32) 13.09.2013 (33) Finland (47) 27.10.2021
(51) A61B 3/00 A61B 3/10	(73) The General Hospital Corporation (72) GARDECKI, Joseph A. TEARNEY, Guillermo J. WANG, Hao	(51) A61B 6/03 G06K 9/00 A61B 6/00 G09B 23/00 G06T 7/10
(11) EP2268192 (21) EP09731967.7 (22) 16.04.2009 (54) APPARATUS FOR CORNEAL SHAPE ANALYSIS AND METHOD FOR DETERMINING A CORNEAL THICKNESS	(74) ir. H.A. Witmans c.s. (31) 201462029007 P (32) 25.07.2014 (33) United States of America (47) 29.12.2021	(11) EP3203914 (21) EP15849388.2 (22) 18.08.2015 (54) RADIATION DOSE APPLIED TO DIFFERENT ANATOMICAL STAGES
(73) i-Optics B.V. Stichting VUmc (72) VAN DER HEIJDE, Gerrit, Ludolph DE PAZ SICAM, Victor, Arni	(51) A61B 5/00 A61B 1/05	

(73) General Electric Company	(72) FARIN, Danny	(21) EP18827086.2
(72) MERTZ, Luc	BONNEAU, Itamar	(22) 20.12.2018
ROY, Philippe	RAPAPORT, Avraham	(54) ELECTROSURGICAL APPARATUS
GUNTZER, Pierre	CIBULSKI, Gilad	(73) Creo Medical Limited
(74) ir. M.F.J.M. Ketelaars c.s.	(74) ir. W.J.J.M. Kempes	(72) HANCOCK, Christopher Paul
(31) 201414510815	(31) 201562193204 P	(74) ir. M.F.J.M. Ketelaars c.s.
(32) 09.10.2014	(32) 16.07.2015	(31) 201721994
(33) United States of America	(33) United States of America	(32) 27.12.2017
(47) 22.12.2021	(47) 17.11.2021	(33) United Kingdom
(51) A61B 17/00	(51) A61B 17/68	(47) 24.11.2021
A61B 17/16	A61B 17/88	(51) A61B 34/10
E21B 17/02	(11) EP3681421	G06T 17/20
E21B 17/07	(21) EP18769459.1	G06T 19/00
(11) EP3307179	(22) 10.09.2018	G16H 50/50
(21) EP16811134.2	(54) ADJUSTABLE BONE IMPLANTS	G16H 50/20
(22) 14.06.2016	(73) Sikander, Murtuza	G16H 50/30
(54) SURGICAL ARRANGEMENT FOR	(72) Sikander, Murtuza	A61F 2/24
RENDERING MEDICAL DEVICES	(74) dr. A. Krebs	G06F 30/23
FUNCTIONALLY STERILE	(31) 201714574	(11) EP3288479
(73) HUMAN XTENSIONS LTD.	(32) 11.09.2017	(21) EP16719423.2
(74) ir. W.J.J.M. Kempes	(33) United Kingdom	(22) 29.04.2016
(31) 201562175491 P	(47) 20.10.2021	(54) METHOD AND SYSTEM FOR
(32) 15.06.2015	(51) A61B 17/82	DETERMINING A RISK OF CARDIAC
(33) United States of America	(11) EP3389523	CONDUCTION ABNORMALITIES
(47) 03.11.2021	(21) EP16816253.5	(73) FEops NV
(51) A61B 17/04	(22) 15.12.2016	(72) DE SANTIS, Gianluca
(11) EP3102120	(54) STERNAL CLOSURE ASSEMBLY	DE BEULE, Matthieu Robert Anna Firmin
(21) EP15746966.9	(73) Neos Surgery, S.L.	MORTIER, Peter Eddy J
(22) 06.02.2015	(74) J. Hoekstra	(74) ir. H.A. Witmans c.s.
(54) SUTURE DELIVERY DEVICE FOR	(31) 201514971294	(31) 15166130
SUTURING TISSUE	(32) 16.12.2015	(32) 01.05.2015
(73) Medeon Biodesign, Inc.	(33) United States of America	(33) European Patent Office (EPO)
(74) ir. H.Th. van den Heuvel c.s.	(47) 03.11.2021	(47) 15.12.2021
(31) 201461937089 P	(51) A61B 18/12	(51) A61C 3/02
(32) 07.02.2014	A61B 18/14	A61C 8/00
(33) United States of America	A61B 90/30	A61B 17/16
(47) 03.11.2021	A61B 17/00	(11) EP3593751
(51) A61B 17/32	(11) EP3628253	(21) EP19186061.8
A61B 17/00	(21) EP18908274.6	(22) 30.01.2017
A61B 18/08	(22) 23.08.2018	(54) DENTISTRY TOOL
(11) EP2866697	(54) HIGH FREQUENCY-CURRENT	(73) Nobel Biocare Services AG
(21) EP13733162.5	SCALPEL WITH LOCKABLE	(72) Geiselhöringer, Hans
(22) 13.06.2013	TELESCOPIC LENGTH HAVING	Burke, Edmund
(54) SURGICAL INSTRUMENTS WITH	ILLUMINATION AND SMOKE	Sollberger, David
ARTICULATING SHAFTS	ASPIRATION FUNCTIONS	Weitzel, Jörg
(73) Ethicon LLC	(73) Zhejiang Medstar Technology Co., Ltd	Holst, Stefan
(72) WEIR, Michael P.	(74) ir. F.A. Geurts c.s.	Quarry, Antony
SHELTON, Frederick E., IV	(31) 201810914786	Nussbaumer, Silvio
HUANG, Zhifan F.	(32) 13.08.2018	(74) ir. W.J.J.M. Kempes
STULEN, Foster B.	(33) China	(31) 16153496
BALEK, Stephen J.	(47) 03.11.2021	(32) 29.01.2016
RHEE, Sora	(51) A61B 18/14	(33) European Patent Office (EPO)
DRAGINOFF, Carl J., Jr.	A61M 25/01	(47) 15.12.2021
KRAIMER, Joseph B.	A61B 17/00	(51) A61C 7/00
(74) ir. M.F.J.M. Ketelaars c.s.	(11) EP2819603	A61C 7/08
(31) 201213538720	(21) EP13710690.2	A61C 7/12
(32) 29.06.2012	(22) 28.02.2013	(11) EP3302342
(33) United States of America	(54) ELECTROSURGICAL DEVICE AND	(21) EP16732242.9
(47) 01.12.2021	SYSTEM	(22) 03.06.2016
(51) A61B 17/3207	(73) Boston Scientific Scimed, Inc.	(54) METHOD FOR PRODUCING AN
A61B 17/221	(74) ir. A.R. Aalbers	ORTHODONTIC CORRECTING DEVICE
A61B 17/22	(31) 201261604817 P	(73) K Line Europe GmbH
(11) EP3622907	(32) 29.02.2012	(72) KANDIL, Sherif
(21) EP19205589.5	(33) United States of America	(74) ir. J.C. Volmer c.s.
(22) 14.07.2016	(47) 03.11.2021	(31) 102015108848
(54) APPARATUS FOR VESSEL	(51) A61B 18/18	(32) 03.06.2015
OCCLUSION REMOVAL	(11) EP3731775	(33) Germany
(73) Perflow Medical Ltd.		(47) 10.11.2021

(51) A61C 19/04 A61C 9/00	(33) Israel (47) 17.11.2021	(54) Composite stents (73) Cardinal Health 529, LLC
(11) EP2941220	(51) A61F 2/24	(72) Dave, Vipul
(21) EP13830124.7	B25B 27/02	(74) ir. H.A. Witmans c.s.
(22) 24.12.2013	A61F 2/95	(31) 696250
(54) DEVICE AND METHOD FOR SUBGINGIVAL MEASUREMENT	A61F 2/97	(32) 04.04.2007
(73) Dentlytec G.P.L. Ltd.	(11) EP3360514	(33) United States of America
(72) MELAMED, Georgy	(21) EP18163259.7	(47) 10.11.2021
LEHR, Blanc Zach	(22) 16.09.2014	(51) A61F 9/007
GRAD, Ygael	(54) METHOD AND APPARATUS FOR COMPRESSING/LOADING STENT- VALVES	A61B 18/00
PESACH, Benny	(73) Symetis SA	A61B 90/30
(74) ir. W.J.J.M. Kempes	(74) ir. W.J.J.M. Kempes	(11) EP3541334
(31) 201261745744 P	(31) 13184650	(21) EP17811706.5
(32) 24.12.2012	(32) 16.09.2013	(22) 07.11.2017
(33) United States of America	(33) European Patent Office (EPO)	(54) MEDICAL INSTRUMENT WITH AN INTEGRATED OPTICAL FIBER
(47) 10.11.2021	(47) 03.11.2021	(73) Alcon Inc.
(51) A61C 19/05	(51) A61F 2/28	(72) WHEATLEY, Barry L.
G06T 7/00	A61F 2/30	PAPAC, Michael J.
G06T 11/00	A61C 8/00	PARTO, Kambiz
G06T 17/20	(11) EP3416591	SMITH, Ronald T.
(11) EP3273905	(21) EP17709824.1	MCDONELL, Brian William
(21) EP16718416.7	(22) 16.02.2017	MIRSEPASSI, Alireza
(22) 25.03.2016	(54) SURFACE TOPOGRAPHIES FOR ALTERING THE PHYSIOLOGY OF LIVING CELLS	FARLEY, Mark Harrison
(54) METHOD FOR DETERMINING A MAP OF THE CONTACTS AND/ OR DISTANCES BETWEEN THE MAXILLARY AND MANDIBULAR ARCHES OF A PATIENT	(73) Koninklijke Philips N.V.	DIAO, Chenguang
(73) Modjaw	(72) HULSHOF, Godefridus Franciscus Bernardus	(74) ir. W.J.J.M. Kempes
(72) JAISSON, Maxime	DE BOER, Jan	(31) 201662423499 P
(74) ir. F.A. Geurts c.s.	PAPENBURG, Berendien Jacoba	(32) 17.11.2016
(31) 1552508	(74) drs. O. Griebeling	(33) United States of America
(32) 25.03.2015	(31) 2017684	(47) 01.12.2021
(33) France	(21) 2016275	(51) A61F 11/00
(47) 08.12.2021	(32) 28.10.2016	A61M 3/02
(51) A61F 2/07	16.02.2016	A61F 7/12
A61F 2/958	(33) Netherlands	(11) EP3593773
A61F 2/00	Netherlands	(21) EP18183461.5
A61F 2/966	(47) 27.10.2021	(22) 13.07.2018
A61M 25/10	(51) A61F 2/44	(54) SPRAY HEAD FOR A DEVICE FOR PRODUCING A STREAM OF AIR IN THE OUTER EAR
A61F 2/04	A61F 2/30	(73) EARBREEZE GMBH
A61F 2/92	(11) EP3130317	(72) KURSCHHEL Martin
A61M 25/00	(21) EP16186186.9	(74) ir. J.C. Volmer c.s.
(11) EP3165196	(22) 08.02.2008	(47) 10.11.2021
(21) EP16197108.0	(54) MULTI-LOBE ARTIFICIAL SPINE JOINT	(51) A61F 11/14
(22) 03.11.2016	(73) Dimicron, Inc.	H04R 1/10
(54) DEVICE FOR INTRODUCING A TISSUE SUBSTITUTE INTO A HOLLOW ORGAN	(72) Harding, David P.	G10K 11/178
(73) Mukocell GmbH	Nguyen, Bao-khang, Ngoc	(11) EP3456299
(72) Liebig, Andrian	(74) ir. H.J.G. Lips c.s.	(21) EP18195274.8
Liebig, Soeren	(31) 914469 P	(22) 18.09.2018
Ram-Liebig, Gouya	889217 P	(54) MULTI PROFILE HEARING PROTECTION HEADSET
(74) ir. H.A. Witmans c.s.	(32) 27.04.2007	(73) Safariland, LLC
(31) 102015118854	09.02.2007	(74) ir. H.A. Witmans c.s.
(32) 03.11.2015	(33) United States of America	(31) 201715708682
(33) Germany	United States of America	(32) 19.09.2017
(47) 27.10.2021	(47) 10.11.2021	(33) United States of America
(51) A61F 2/24	(51) A61F 2/91	(47) 03.11.2021
(11) EP3672529	A61F 2/915	(51) A61F 13/532
(21) EP18848135.2	A61L 27/44	A61F 13/534
(22) 15.08.2018	A61L 27/54	A61F 13/535
(54) FOLDABLE ONE-WAY VALVE	A61L 29/12	A61F 13/539
(73) Geonovation Medical Technologies Ltd.	A61L 29/16	A61L 15/58
(72) SCHUMACHER, Michaella	A61L 31/12	A61L 15/42
(74) ir. W.J.J.M. Kempes	A61L 31/16	A61L 15/60
(31) 25409917	(11) EP1977721	(11) EP3351225
(32) 22.08.2017	(21) EP08153016.4	(21) EP18159482.1
	(22) 19.03.2008	(22) 13.05.2014

(54) ABSORBENT CORES HAVING MATERIAL FREE AREAS	(54) COSMETIC PAD AND METHOD FOR PRODUCING A COSMETIC PAD	(31) 201716314
(73) The Procter & Gamble Company	(73) Man, Kai-Wing	(32) 05.10.2017
(72) Lutsche, Marion	(72) Man, Kai-Wing	(33) United Kingdom
Ehrnsperger, Bruno Johannes	(74) dr. A. Krebs	(47) 01.12.2021
Dziedzok, Peter	(31) 102016013067	(51) A61K 9/08
Chatterjee, Aniruddha	(32) 03.11.2016	A61K 38/095
Peri, Andrea	(33) Germany	A61K 38/12
Kamphus, Juliane	(47) 20.10.2021	A61K 47/12
(31) 13185212	(51) A61K 8/362	A61K 47/18
(32) 19.09.2013	A61K 8/41	A61K 47/20
(33) European Patent Office (EPO)	A61Q 5/00	A61P 15/04
(47) 29.12.2021	A61Q 5/04	(11) EP3246018
(51) A61J 11/00	A61Q 5/08	(21) EP17169301.3
A61J 9/00	A61Q 5/10	(22) 29.09.2011
A61J 9/04	(11) EP3326606	(54) PHARMACEUTICAL COMPOSITION
A61J 11/02	(21) EP17163334.0	(73) Ferring B.V.
(11) EP3746032	(22) 01.08.2014	(74) ir. W.J.J.M. Kempes
(21) EP19710556.2	(54) METHODS FOR FIXING HAIR AND SKIN	(31) 10251690
(22) 27.02.2019	(73) Olaplex, Inc.	(32) 30.09.2010
(54) BOTTLE ASSEMBLY	(72) Pressly, Eric D	(33) European Patent Office (EPO)
(73) Handi-Craft Company	Hawker, Craig J	(47) 03.11.2021
(74) J. Hoekstra	(74) drs. C.M.A. Quintelier	(51) A61K 9/08
(31) 201862637804 P	(31) 201462000340 P	A61K 38/095
(32) 02.03.2018	201414257076	A61K 47/12
(33) United States of America	201414257056	A61K 47/18
(47) 03.11.2021	201414257089	A61K 47/20
(51) A61J 15/00	201361903239 P	A61P 15/04
G01G 19/00	201361885898 P	(11) EP3222272
A61M 5/142	201361867872 P	(21) EP17169328.6
A61M 5/152	201361861281 P	(22) 29.09.2011
(11) EP3554456	(32) 19.05.2014	(54) PHARMACEUTICAL COMPOSITION OF CARBETOCIN
(21) EP17754338.6	21.04.2014	(73) Ferring B.V.
(22) 15.08.2017	21.04.2014	(74) ir. W.J.J.M. Kempes
(54) A PORTABLE ENTERAL FEEDING APPARATUS	21.04.2014	(31) 10251690
(73) Rockfield Medical Devices Limited	12.11.2013	(32) 30.09.2010
(72) MAYNE, Donal	02.10.2013	(33) European Patent Office (EPO)
THOMPSON, Tomas Martin	20.08.2013	(47) 03.11.2021
KELLY, Damian	01.08.2013	(51) A61K 9/19
(74) ir. J.C. Volmer c.s.	(33) United States of America	A61K 9/00
(31) 16204889	United States of America	A61K 47/02
16204887	United States of America	A61K 47/26
(32) 16.12.2016	United States of America	A61K 47/40
16.12.2016	United States of America	A61K 38/50
(33) European Patent Office (EPO)	United States of America	A61K 47/60
European Patent Office (EPO)	United States of America	A61K 47/69
(47) 24.11.2021	United States of America	A61P 35/04
(51) A61J 15/00	(47) 10.11.2021	(11) EP3463308
G06F 9/00	(51) A61K 8/81	(21) EP17831465.4
A61M 5/142	A61K 8/31	(22) 01.06.2017
(11) EP3054914	A61K 8/06	(54) FORMULATIONS OF POLYALKYLENE OXIDE-ASPARAGINASE AND METHODS OF MAKING AND USING THE SAME
(21) EP13785941.9	A61Q 19/00	(73) Servier IP UK Limited
(22) 11.10.2013	C08F 2/32	(72) FORNASINI, Gianfranco
(54) ENTERAL FEEDING SYSTEM	A61K 8/92	SOUKHAREVA, Nadejda
(73) N.V. Nutricia	C08L 33/26	PHILLIPS, Christopher
(72) Zijderduin, Bram	C08L 33/14	(74) ir. M.F.J.M. Ketelaars c.s.
Hogerwerf, Mark	C08F 220/58	(31) 201662344252 P
(74) ir. M.F.J.M. Ketelaars c.s.	C08F 220/34	201662344249 P
(47) 08.12.2021	(11) EP3692096	201662344256 P
(51) A61K 8/02	(21) EP18782733.2	(32) 01.06.2016
A45D 29/00	(22) 04.10.2018	01.06.2016
D04H 1/40	(54) INVERSE EMULSION THICKENERS	01.06.2016
A61Q 3/04	(73) Scott Bader Company Ltd	01.06.2016
(11) EP3534868	(72) WILLIAMS, Clive Noel	(33) United States of America
(21) EP17804059.8	HUNT, Paul Edward	United States of America
(22) 03.11.2017	CAMILLERI, Lee	United States of America
	(74) ir. M.F.J.M. Ketelaars c.s.	

(47) 01.12.2021	A23L 29/30	(32) 18.12.2015
(51) A61K 31/12	A23L 33/00	(33) India
A23K 20/10	A23L 33/10	(47) 27.10.2021
A23K 50/75	A61P 31/12	(51) A61K 33/243
A61K 31/045	(11) EP3342413	C07D 471/04
A61P 1/00	(21) EP17204679.9	A61P 35/00
A61P 31/04	(22) 12.07.2010	A61K 33/24
A61K 31/015	(54) FUCOSYLLACTOSE AS BREAST	A61K 31/5377
A23K 20/179	MILK IDENTICAL NON-DIGESTIBLE	A61K 31/519
A23K 20/105	OLIGOSACCHARIDE FOR TREATING	A61K 31/517
(11) EP3288546	AND/OR PREVENTING VIRAL	A61K 31/506
(21) EP16785701.0	DIARRHOEA	A61K 31/4745
(22) 02.03.2016	(73) N.V. Nutricia	A61K 31/337
(54) OXIDIZED CAROTENOIDS AND	(72) GARSSEN, Johan	(11) EP3478685
COMPONENTS THEREOF FOR	NAUTA, Alma Jildou	(21) EP17823568.5
PREVENTING NECROTIC ENTERITIS	STAHL, Bernd	(22) 30.06.2017
(73) Avivagen Inc.	DROUILLARD, Sophie	(54) CHIRAL HETEROCYCLIC COMPOUND
(72) BURTON, Graham W.	SAMAIN, Eric	WITH HEDGEHOG PATHWAY
NICKERSON, James G.	(74) ir. M.F.J.M. Ketelaars c.s.	ANTAGONIST ACTIVITY, METHOD AND
RILEY, William W.	(31) 256453 P	USE THEREOF
DAROSZEWSKI, Janusz	09165485	(73) Suzhou Kintor Pharmaceuticals, Inc.
GROOME, Cameron L.	(32) 30.10.2009	(72) ZHANG, Xiaohu
(74) ir. W.J.J.M. Kempes	15.07.2009	(74) ir. H.A. Witmans c.s.
(31) 201562153587 P	(33) United States of America	(31) 201610511917
(32) 28.04.2015	European Patent Office (EPO)	(32) 04.07.2016
(33) United States of America	(47) 20.10.2021	(33) China
(47) 15.12.2021	(51) A61K 31/713	(47) 12.01.2022
(51) A61K 31/4545	C12N 15/85	(51) A61K 35/02
C07D 471/04	C12N 15/113	A61K 36/00
A61P 35/00	C12Q 1/68	A61K 35/747
(11) EP3412667	A61P 27/02	A61K 35/744
(21) EP17747415.2	(11) EP3390642	A61K 35/742
(22) 31.01.2017	(21) EP16876606.1	A61K 35/741
(54) COCRYSTAL	(22) 14.12.2016	A61K 35/10
(73) Takeda Pharmaceutical Company	(54) COMPOSITIONS FOR TREATMENT OF	A61K 35/00
Limited	RETINITIS PIGMENTOSA 13	A61K 35/12
(74) ir. H.A. Witmans c.s.	(73) COLD SPRING HARBOR	A61P 37/02
(31) 2016017099	LABORATORY	(11) EP3551196
(32) 01.02.2016	Stoke Therapeutics, Inc.	(21) EP17832972.8
(33) Japan	(72) AZNAREZ, Isabel	(22) 07.12.2017
(47) 03.11.2021	NASH, Huw M.	(54) PROBIOTIC IMMUNOMODULATORY
(51) A61K 31/519	KRAINER, Adrian	COMPOSITIONS
A61K 31/40	(74) ir. W.J.J.M. Kempes	(73) Ute Scientific Oy
A61P 35/00	(31) 201562267261 P	(72) NURMINEN, Noora
(11) EP3658147	(32) 14.12.2015	SINKKONEN, Aki
(21) EP18740615.2	(33) United States of America	LAITINEN, Olli-Heikki
(22) 23.07.2018	(47) 24.11.2021	HYÖTY, Heikki
(54) COMBINATION COMPRISING	(51) A61K 31/745	GRÖNROOS, Mira
PALBOCICLIB AND 6-(2,4-	A61K 9/22	OIKARINEN, Sami
DICHLOROPHENYL)-5-[4-[(3S)-1-(3-	A61K 9/00	(74) ir. W.J.J.M. Kempes
FLUOROPROPYL)PYRROLIDIN-3-	A61K 9/20	(31) 20165932
YL]OXYPHENYL]-8,9-DIHYDRO-7H-	A61K 31/55	(32) 07.12.2016
BENZO[7]ANNULENE-2-CARBOXYLIC	(11) EP3402488	(33) Finland
ACID AND ITS USE FOR THE	(21) EP16875035.4	(47) 10.11.2021
TREATMENT OF CANCER	(22) 16.12.2016	(51) A61K 35/747
(73) Sanofi	(54) SOLID ORAL DOSAGE FORMS OF	A61K 45/06
(72) SUN, Fangxian	ESLICARBAZEPINE	A61K 9/107
BOUABOULA, Monsif	(73) Jubilant Generics Limited	A61K 9/06
SHOMALI, Maysoun	(72) NAKHAT, Premchand Dalichandji	A01N 63/20
(74) ir. W.J.J.M. Kempes	JAIN, Vivek	(11) EP3324986
(31) 201762536121 P	NITHIYANANDAM, Ravikumar	(21) EP16828408.1
17305998	KUMAR, Dinesh	(22) 19.07.2016
(32) 24.07.2017	SHARMA, Priyank	(54) MATERIALS AND METHODS FOR
25.07.2017	MEHTA, Kamal S.	IMPROVING IMMUNE RESPONSES
(33) United States of America	GAT, Ganesh Vinayak	AND THE SKIN AND/OR MUCOSAL
European Patent Office (EPO)	JOSHI, Baibhav	BARRIER FUNCTION
(47) 10.11.2021	(74) ir. W.J.J.M. Kempes	(73) Quorum Innovations, LLC
(51) A61K 31/702	(31) 4163DE2015	(72) BOEHM, Frederick T.

BERKES, Eva, A.	A61K 9/113	(11) EP3041499
MONSUL, Nicholas, T.	A61K 47/12	(21) EP14842380.9
(74) dr. W.A.H.M. Van Borm	A61K 47/14	(22) 05.09.2014
(31) 201562194630 P	A61K 47/26	(54) REAGENTS AND METHODS FOR
(32) 20.07.2015	A61K 47/32	SCREENING MPS I, II, IIIA, IIIB, IVA, VI,
(33) United States of America	A61K 47/36	AND VII
(47) 24.11.2021	A61K 8/00	(73) University of Washington through its
(51) A61K 35/76	A61P 17/16	Center for Commercialization
C12N 15/86	A61P 17/18	(72) GELB, Michael, H.
C12N 15/85	(11) EP3490577	SPACIL, Adenek
C12N 5/10	(21) EP17751057.5	KUMAR, Arun, Babu
(11) EP3701959	(22) 31.07.2017	SCOTT, C., Ronald
(21) EP20156693.2	(54) SKIN COMPOSITIONS COMPRISING	TURECEK, Frantisek
(22) 13.03.2017	TURMERONES	BARCENAS RODRIGUEZ, Mariana,
(54) RNA REPLICON FOR VERSATILE AND	(73) Adamed Pharma S.A.	Natali
EFFICIENT GENE EXPRESSION	(72) MAJKA, Zbigniew	HOCUTT, Frances
(73) TRON - Translationale Onkologie	(74) dr. W.A.H.M. Van Borm	(74) ir. F.A. Geurts c.s.
an der Universitätsmedizin der	(31) 41816816	(31) 201462012020 P
Johannes Gutenberg- Universität Mainz	(32) 01.08.2016	201461968021 P
gemeinnützige GmbH	(33) Poland	201461949970 P
BioNTech SE	(47) 08.12.2021	201361960102 P
(72) BEISSERT, Tim	(51) A61K 38/22	201361960113 P
SAHIN, Ugur	C07K 14/58	201361874293 P
PERKOVIC, Mario	A61K 47/60	201361874331 P
(74) dr. A. Krebs	A61P 7/10	(32) 13.06.2014
(31) PCT/EP2016/056165	A61P 9/00	20.03.2014
(32) 21.03.2016	A61P 9/04	07.03.2014
(33) World Intellectual Property Office (WIPO)	A61P 9/10	09.09.2013
(47) 22.12.2021	A61P 9/12	09.09.2013
(51) A61K 35/761	A61P 13/12	05.09.2013
A61K 35/768	A61P 19/00	05.09.2013
C07K 16/28	A61P 19/08	(33) United States of America
A61P 35/00	A61P 21/00	United States of America
A61K 39/00	(11) EP3175863	United States of America
A61K 38/17	(21) EP16192229.9	United States of America
C07K 14/00	(22) 20.05.2010	United States of America
(11) EP3389682	(54) VARIANTS OF C-TYPE NATRIURETIC	United States of America
(21) EP16825727.7	PEPTIDE	United States of America
(22) 19.12.2016	(73) BioMarin Pharmaceutical Inc.	(47) 01.12.2021
(54) GROUP B ADENOVIRUS ENCODING	(72) OKHAMAFE, Augustus, O.	(51) A61K 39/395
AN ANTI-TCR-COMPLEX ANTIBODY	VELLARD, Michel, Claude	C07K 16/00
OR FRAGMENT	AOYAGI-SCHARBER, Mika	C12N 15/63
(73) Psioxus Therapeutics Limited	PRICE, Christopher, P.	C07K 16/28
(72) BROMLEY, Alice Claire Noel	LONG, Shinong	A61K 47/50
CHAMPION, Brian Robert	WENDT, Daniel, J.	A61K 47/68
(74) dr. W.A.H.M. Van Borm	CASTILLO, Sianna	A61P 21/00
(31) 201617206	(74) ir. W.J.J.M. Kempes	A61P 29/00
201617207	(31) 254563 P	A61P 35/00
201607463	180112 P	A61P 35/02
201522334	(32) 23.10.2009	A61P 43/00
(32) 10.10.2016	20.05.2009	(11) EP3127553
10.10.2016	(33) United States of America	(21) EP16180729.2
29.04.2016	United States of America	(22) 02.05.2003
17.12.2015	(47) 01.12.2021	(54) CALICHEAMICIN DERIVATIVE-
(33) United Kingdom	(51) A61K 38/24	CARRIER CONJUGATES
United Kingdom	A61P 15/08	(73) Wyeth Holdings LLC
United Kingdom	(11) EP3675894	(72) JAIN, Neera
United Kingdom	(21) EP18768795.9	POPPELWELL, Andrew George
(47) 17.11.2021	(22) 31.08.2018	RUBINO, Joseph Thomas
(51) A61K 36/9066	(54) COMPOSITION FOR CONTROLLED	KUNZ, Arthur
A61K 31/121	OVARIAN STIMULATION	MORAN, Justin Keith
A61K 31/23	(73) Ferring B.V.	VIDUNAS, Eugene Joseph
A61K 31/231	(74) ir. W.J.J.M. Kempes	DAMLE, Nitin Krishnaji
A61K 31/721	(31) 17189119	MERCHANT, Nishith
A61K 31/728	(32) 01.09.2017	DIJOSEPH, John Francis
A61K 33/38	(33) European Patent Office (EPO)	RUPPEN, Mark Edward
A61K 9/00	(47) 03.11.2021	SIMPSON, John McLean
A61K 9/107	(51) A61K 38/47	ROBBINS, Paul David

(74) ir. M.F.J.M. Ketelaars c.s.	A61K 9/16	B65B 3/30
(31) 377440 P	(11) EP3134131	B65B 5/04
(32) 02.05.2002	(21) EP15783606.5	(11) EP3681561
(33) United States of America	(22) 23.04.2015	(21) EP18779529.9
(47) 01.12.2021	(54) NUCLEIC ACID VACCINES	(22) 12.09.2018
(51) A61K 39/395	(73) ModernaTX, Inc.	(54) SLIDING SYRINGE CAP FOR
C07K 16/18	(72) CIARAMELLA, Giuseppe	SEPARATE FILLING AND DELIVERY
A61P 13/12	HUANG, Eric, Yi-Chun	(73) Bayer Healthcare LLC
A61K 39/00	BOUCHON, Axel	(74) ir. W.J.J.M. Kempes
C07K 16/22	(74) ir. W.J.J.M. Kempes	(31) 201762575062 P
(11) EP3520815	(31) 201462088994 P	201762558012 P
(21) EP18208382.4	201461983250 P	(32) 20.10.2017
(22) 08.02.2006	(32) 08.12.2014	13.09.2017
(54) ANTIBODIES TO TGF $\beta$ 2	23.04.2014	(33) United States of America
(73) Optein, Inc.	(33) United States of America	United States of America
Genzyme Corporation	(47) 22.12.2021	(47) 03.11.2021
(72) HART, Celia P.	(51) A61L 15/28	(51) A61M 5/142
BUCHANAN, Catriona L.	A61L 15/48	A61M 5/36
JERMUTUS, Lutz U.	A61L 15/58	A61M 5/31
FINCH, Donna K.	A61L 15/62	A61M 5/315
HOLGATE, Robert G.	(11) EP2752204	A61M 5/00
DUNCAN, Alexander R.	(21) EP14163467.5	G01F 23/02
LEDBETTER, Steven R.	(22) 27.04.2009	A61M 5/145
(74) ir. W.J.J.M. Kempes	(54) Haemostatic material	A61M 5/44
(31) 65134305 P	(73) Medtrade Products Ltd.	(11) EP3513822
(32) 08.02.2005	(72) Darby, Andrew	(21) EP19155953.3
(33) United States of America	Eason, Guy	(22) 24.08.2016
(47) 17.11.2021	Hardy, Craig	(54) SYSTEM AND METHOD FOR SYRINGE
(51) A61K 47/60	(74) ir. F.A. Geurts c.s.	FLUID FILL VERIFICATION AND IMAGE
C07K 1/20	(31) 0807561	RECOGNITION OF POWER INJECTOR
C07K 14/505	(32) 25.04.2008	SYSTEM FEATURES
(11) EP3731872	(33) United Kingdom	(73) Bayer Healthcare LLC
(21) EP18830892.8	(47) 20.10.2021	(74) ir. W.J.J.M. Kempes
(22) 28.12.2018	(51) A61L 27/56	(31) 201562259824 P
(54) PROCESS FOR PROVIDING	A61L 27/52	201562211462 P
PEGYLATED PROTEIN COMPOSITION	A61L 27/14	(32) 25.11.2015
(73) F. Hoffmann-La Roche AG	A61L 27/20	28.08.2015
(72) KOEHNLEIN, Wolfgang	A61L 27/54	(33) United States of America
(74) drs. C.M.A. Quintelier	(11) EP2844309	United States of America
(31) 17211103	(21) EP13808753.1	(47) 03.11.2021
(32) 29.12.2017	(22) 28.06.2013	(51) A61M 5/158
(33) European Patent Office (EPO)	(54) SELECTIVELY POLYMERIZABLE	A61M 5/142
(47) 24.11.2021	COMPOSITIONS	(11) EP2452709
(51) A61K 47/69	(73) The Administrators of the Tulane	(21) EP12154607.1
A61K 9/10	Educational Fund	(22) 06.02.2009
A61K 31/4184	(72) MOORE, Michael	(54) CANNULA PART
A61K 31/573	KHOSHAKHLAGH, Parastoo	(73) Unomedical A/S
A61K 47/40	RANNEY, Jesse	(72) Hickmott, Richard Morgan
A61P 27/02	HORN-RANNEY, Elaine	Morton, Alistair David
(11) EP3548091	(74) ir. J.D. de Zeeuw	Hasted, Søren Bo
(21) EP17851871.8	(31) 201261665639 P	Jeppesen, Henrik
(22) 29.11.2017	(32) 28.06.2012	Gyrn, Steffen
(54) PREPARATION OF SOLID	(33) United States of America	Hørdum, Elo Lau
CYCLODEXTRIN COMPLEXES	(47) 27.10.2021	(74) ir. H.J.G. Lips c.s.
FOR OPHTHALMIC ACTIVE	(51) A61M 5/14	(31) 200800262
PHARMACEUTICAL INGREDIENT	A61M 5/142	200800240
DELIVERY	A61M 5/168	200800203
(73) Oculis SA	A61M 5/145	200800202
(72) FULOP, Zoltan	A61M 39/22	200800185
LOFTSSON, Thorsteinn	A61M 39/24	95379 P
(74) J.M.H. Duyver lic.	A61J 1/20	187971
(31) 201662427737 P	A61M 5/00	31227 P
(32) 29.11.2016	A61M 5/178	30022 P
(33) United States of America	A61M 39/20	28262 P
(47) 01.12.2021	B65B 57/02	28259 P
(51) A61K 48/00	B65B 3/00	27125 P
A61K 39/00	B65B 3/28	(32) 25.02.2008
A61K 31/7105		21.02.2008

13.02.2008	ROSSIGNUOLO, Michael	(74) ir. W.J.J.M. Kempes
13.02.2008	WILLIAMS, Peter Robert	(31) 102017011088
08.02.2008	HOLMES, Robert William Lachlan	(32) 30.11.2017
09.09.2008	EBBETT, Todd Donald	(33) Germany
07.08.2008	STANDING, Colin Anthony	(47) 29.12.2021
25.02.2008	(74) ir. H.A. Witmans c.s.	(51) A61M 16/06
20.02.2008	(31) 08566713	(11) EP3736009
13.02.2008	(32) 14.03.2008	(21) EP20166100.6
13.02.2008	(33) New Zealand	(22) 03.03.2016
08.02.2008	(47) 19.01.2022	(54) HEADGEAR TOP STRAP CONNECTOR
(33) Denmark	(51) A61M 15/00	(73) Fisher & Paykel Healthcare Limited
Denmark	A61B 5/087	(74) ir. W.J.J.M. Kempes
Denmark	A61M 16/00	(31) 201562268341 P
Denmark	G09B 23/28	201562187010 P
Denmark	(11) EP2609954	201562128434 P
United States of America	(21) EP13161157.6	(32) 16.12.2015
United States of America	(22) 19.06.2009	30.06.2015
United States of America	(54) An interactive apparatus for real-time	04.03.2015
United States of America	profiling of inhalation efforts	(33) United States of America
United States of America	(73) MannKind Corporation	United States of America
United States of America	(72) Adamo, Benoit	United States of America
United States of America	Polidoro, John M.	(47) 03.11.2021
(47) 19.01.2022	McLean, Scott	(51) A61M 16/20
(51) A61M 5/20	Smutney, Chad C.	A61M 16/06
A61M 5/24	Sahi, Carl R.	(11) EP3481479
A61M 5/32	Kinsey, P. Spencer	(21) EP17824613.8
A61M 5/315	Overfield, Dennis	(22) 07.07.2017
(11) EP3570912	(74) ir. W.J.J.M. Kempes	(54) A VENT FOR A COMPONENT OF A
(21) EP18741946.0	(31) 159052 P	RESPIRATORY THERAPY SYSTEM
(22) 20.01.2018	74487 P	(73) Fisher & Paykel Healthcare Limited
(54) AUTO-INJECTOR DEVICE	(32) 10.03.2009	(72) ROSE, Hamish Joshua
(73) L.G.P. Technology Holdings LLC	20.06.2008	BETTERIDGE, Max Leon
(72) GIAMBATTISTA, Lucio	(33) United States of America	(74) ir. H.J.G. Lips c.s.
(74) dr. A. Krebs	United States of America	(31) 201662359919 P
(31) 201762461477 P	(47) 29.12.2021	(32) 08.07.2016
201762448834 P	(51) A61M 15/06	(33) United States of America
(32) 21.02.2017	A24F 47/00	(47) 05.01.2022
20.01.2017	(11) EP3765132	(51) A61M 27/00
(33) United States of America	(21) EP19716571.5	A61M 1/00
United States of America	(22) 13.03.2019	(11) EP2387432
(47) 20.10.2021	(54) AEROSOL-GENERATING SYSTEM	(21) EP10731988.1
(51) A61M 5/20	WITH BIOSENSOR	(22) 12.01.2010
A61M 5/32	(73) Philip Morris Products S.A.	(54) ASPIRATED WOUND DRESSING
(11) EP3432947	(72) BATISTA, Rui Nuno	(73) ConvaTec Technologies Inc.
(21) EP17708804.4	EMMETT, Robert	(72) TSAI, Mingliang Lawrence
(22) 06.03.2017	RIVA REGGIORI, Riccardo	(74) ir. H.J.G. Lips c.s.
(54) MONITORING UNIT	GUNDUZ, Nazan	(31) 144885 P
(73) SHL Medical AG	BESSANT, Michel	(32) 15.01.2009
(72) SÄLL, Daniel	(74) dr. W.A.H.M. Van Borm	(33) United States of America
CARLSSON, Daniel	(31) 18161858	(47) 22.12.2021
HAUTAVIITA, Nikolaj	(32) 14.03.2018	(51) A61M 60/135
(31) 16161584	(33) European Patent Office (EPO)	A61M 60/205
(32) 22.03.2016	(47) 15.12.2021	A61M 60/414
(33) European Patent Office (EPO)	(51) A61M 16/00	A61M 60/818
(47) 10.11.2021	A61M 16/04	A61M 60/857
(51) A61M 5/24	A61M 16/12	(11) EP3556409
A61M 5/31	A61M 16/14	(21) EP19172327.9
A61M 5/315	A61M 16/16	(22) 23.10.2017
(11) EP3513823	A61M 16/20	(54) VENTRICULAR ASSIST DEVICE
(21) EP18214156.4	(11) EP3492131	(73) Magenta Medical Ltd.
(22) 11.03.2009	(21) EP18000922.7	(72) LUBINSKY, Gad
(54) VETERINARY SYRINGE FOR	(22) 27.11.2018	TUVAL, Yosi
MULTIPLE INJECTIONS	(54) SYSTEM FOR RESPIRATION GAS	GLOZMAN, Daniel
(73) Boehringer Ingelheim Animal Health USA	SUPPLY	(74) ir. W.J.J.M. Kempes
Inc.	(73) Löwenstein Medical Technology S.A.	(31) 201762543540 P
(72) WALKER, Rodney Gordon	(72) SCHEERER, Mario	201662412631 P
CIAMPA, Giovanni	SCHRÖTER, Christof	(32) 10.08.2017
SMITH, Robert John	SCHWAIBOLD, Matthias	25.10.2016

(33) United States of America United States of America (47) 05.01.2022	CHAI, Meng (74) ir. M.F.J.M. Ketelaars c.s. (31) 201710508075	(31) 15186478 (32) 23.09.2015 (33) European Patent Office (EPO) (47) 03.11.2021
(51) A61N 1/362 A61N 1/365 A61N 1/368 A61N 1/37 (11) EP3638363 (21) EP18738068.8 (22) 13.06.2018 (54) DYNAMIC CONTROL OF HEART FAILURE THERAPY (73) Cardiac Pacemakers, Inc. (72) HERRMANN, Keith L. DUFRESNE, Michael James HUMPHREY, Jason TERNES, David J. YU, Yinghong MACEWEN, Adam PERSCHBACHER, David L. (74) ir. H.J.G. Lips c.s. (31) 201762521215 P (32) 16.06.2017 (33) United States of America (47) 15.12.2021	(31) 201610529311 (32) 28.06.2017 06.07.2016 (33) China China (47) 24.11.2021 (51) A61P 7/02 C07K 16/36 (11) EP3723858 (21) EP19836806.0 (22) 20.12.2019 (54) FIXAFX BISPECIFIC ANTIBODY WITH COMMON LIGHT CHAIN (73) Kymab Limited (72) MAGLIOZZI, Roberto BLACKWOOD, John, Kenneth WANG, Wei LEE, E-Chiang (74) ir. M.F.J.M. Ketelaars c.s. (31) 201908190 201906816 201820977 (32) 07.06.2019 15.05.2019 21.12.2018 (33) United Kingdom United Kingdom United Kingdom (47) 27.10.2021 (51) A61P 9/10 A61K 31/485 A61K 31/137 (11) EP3076971 (21) EP14867191.0 (22) 04.12.2014 (54) COMPOSITIONS AND METHODS FOR REDUCING MAJOR ADVERSE CARDIOVASCULAR EVENTS (73) Nalpropion Pharmaceuticals LLC (72) KLASSEN, Preston TAYLOR, Kristin (74) drs. C.M.A. Quintelier (31) 201414322810 201461984580 P 201361914938 P 201361913216 P (32) 02.07.2014 25.04.2014 11.12.2013 06.12.2013 (33) United States of America United States of America United States of America United States of America (47) 20.10.2021 (51) A61P 35/02 (11) EP3353164 (21) EP16770484.0 (22) 22.09.2016 (54) BI-HETEROARYL SUBSTITUTED 1,4-BENZODIAZEPINES AND USES THEREOF FOR THE TREATMENT OF CANCER (73) Janssen Pharmaceutica, N.V. (74) ir. W.J.J.M. Kempes	(51) A62C 37/50 A62C 35/64 A62C 35/68 A62C 35/60 A62C 37/12 A62C 37/14 (11) EP3019247 (21) EP14822081.7 (22) 11.07.2014 (54) TOOL AND METHOD FOR DRAINING A FIRE SPRINKLER SYSTEM AND A FIRE SPRINKLER (73) FST Innovation Pty Ltd (72) Mete, Shae (74) ir. W.J.J.M. Kempes (31) 2013902575 (32) 12.07.2013 (33) Australia (47) 22.12.2021 (51) A63F 9/24 A63F 13/49 A63F 13/30 (11) EP2828766 (21) EP13761888.0 (22) 07.03.2013 (54) SYSTEM AND METHOD FOR CAPTURING AND SHARING CONSOLE GAMING DATA (73) Sony Computer Entertainment America LLC (72) GARY, Nathan (74) ir. W.J.J.M. Kempes (31) 201213418703 (32) 13.03.2012 (33) United States of America (47) 08.12.2021 (51) A63F 13/24 A63F 13/23 A63F 13/218 A63B 21/00 A63B 21/02 A63B 23/12 A63F 13/98 A63B 24/00 (11) EP3753613 (21) EP19204826.2 (22) 23.10.2019 (54) APPARATUS AND APPARATUS SET (73) Nintendo Co., Ltd. (72) OGASAWARA, Yoshiyasu ZENRI, Yuko TAMURA, Yoshitaka IKEDA, Tomofumi (74) ir. M.F.J.M. Ketelaars c.s. (31) 2019114490 2019114489 (32) 20.06.2019 20.06.2019 (33) Japan Japan (47) 01.12.2021 (51) A63F 13/355 A63F 13/323 A63F 13/335
(51) A61N 1/375 A61N 1/365 A61B 5/00 (11) EP3668592 (21) EP18782224.2 (22) 17.08.2018 (54) IMPLANTABLE MEDICAL DEVICE WITH PRESSURE SENSOR (73) Cardiac Pacemakers, Inc. (72) MAILE, Keith R. KOOP, Brendan Early LINDER, William J. KANE, Michael J. SWEENEY, Moira B. (74) ir. H.J.G. Lips c.s. (31) 201762547458 P (32) 18.08.2017 (33) United States of America (47) 17.11.2021 (51) A61N 5/10 (11) EP3509698 (21) EP17848267.5 (22) 12.09.2017 (54) RADIOTHERAPY SYSTEM PREVENTING RADIATION OF HEALTHY TISSUE (73) Kongsberg Beam Technology AS (72) KLEVEN, Per Håvard (74) dr. A. Krebs (31) 1651223 (32) 12.09.2016 (33) Sweden (47) 27.10.2021 (51) A61N 5/10 G21K 1/04 (11) EP3266501 (21) EP17179966.1 (22) 06.07.2017 (54) CONTROLLING MOVEMENT OF CARRIAGE OF MULTI-LEAF COLLIMATOR (73) Neusoft Medical Systems Co., Ltd. (72) XU, Xinghu		

A63F 13/358	POLLAK, Andreas	C10L 5/44
A63F 13/53	HAUSER, Leopold	(11) EP3664936
A63F 13/77	KAROSCHITZ, Thomas	(21) EP18769182.9
H04N 7/16	MUCHITSCH, Werner	(22) 13.09.2018
(11) EP3266198	KURRAS, Mathias	(54) METHOD, SYSTEM AND USE
(21) EP16762259.6	(74) ir. W.J.J.M. Kempes	THEREOF FOR PROCESSING AN
(22) 04.03.2016	(31) 17020533	AGRICULTURAL WASTE BIOMASS
(54) DYNAMIC ADJUSTMENT OF CLOUD	(32) 15.11.2017	PRODUCT INTO A GRIINDED
GAME DATA STREAMS TO OUTPUT	(33) European Patent Office (EPO)	PRODUCT
DEVICE AND NETWORK QUALITY	(47) 12.01.2022	(73) Advanced Substrate Technologies A/S
(73) Sony Interactive Entertainment America	(51) B01D 53/14	(72) HOFF, Svend
LLC	C10L 3/10	OLESEN, Geert, Haugaard
(72) COLENBRANDER, Roelof Roderick	B01D 53/26	(74) ir. W.J.J.M. Kempes
PERRY, David	(11) EP3697520	(31) 17191185
(74) ir. W.J.J.M. Kempes	(21) EP18785595.2	(32) 14.09.2017
(31) 201514641121	(22) 10.10.2018	(33) European Patent Office (EPO)
(32) 06.03.2015	(54) GLYCOL DRYING SYSTEM AND	(47) 27.10.2021
(33) United States of America	METHOD FOR DRYING GLYCOL	(51) B04B 1/20
(47) 24.11.2021	(73) RWE Gas Storage West GmbH	B04B 11/02
(51) A63G 7/00	(72) LENTH, Burkhard	(11) EP3738675
B60N 2/24	NEUHAUS, Guido	(21) EP19174947.2
B60N 2/42	(74) ir. W.J.J.M. Kempes	(22) 16.05.2019
B60N 2/427	(31) 102017124002	(54) HEAVY PHASE LIQUID DISCHARGE
B60N 2/50	(32) 16.10.2017	ELEMENT FOR A CENTRIFUGAL
B60N 2/68	(33) Germany	SEPARATOR, CENTRIFUGAL
B60N 2/52	(47) 08.12.2021	SEPARATOR AND METHOD FOR
(11) EP3718615	(51) B01D 61/42	SEPARATING TWO LIQUID PHASES
(21) EP20164112.3	E02D 7/26	(73) Alfa Laval Corporate AB
(22) 19.03.2020	B01D 61/56	(72) MADSEN, Bent
(54) PASSENGER RESTRAINT SYSTEM	E02D 27/42	(74) ir. H.A. Witmans c.s.
FOR ROLLER COASTERS	F03D 13/25	(47) 27.10.2021
(73) Bolliger & Mabillard Ingénieurs Conseils	E02B 17/00	(51) B04B 9/10
S.A.	E02D 27/52	B04B 11/02
(72) BERRA, Eric	(11) EP3558497	B04B 13/00
ZÜRCHER, Alain	(21) EP17832953.8	B04B 1/08
(74) J.M.H. Duyver lic.	(22) 20.12.2017	(11) EP3698877
(31) 19164728	(54) FOUNDATION FOR A STRUCTURE	(21) EP19157919.2
(32) 22.03.2019	(73) Ørsted Wind Power A/S	(22) 19.02.2019
(33) European Patent Office (EPO)	(72) SCHUPP, Jens	(54) METHOD OF CONTROLLING
(47) 22.12.2021	(74) mr. ir. J. van Breda c.s.	CENTRIFUGAL SEPARATOR AND
(51) A63G 9/00	(31) 17157171	CENTRIFUGAL SEPARATOR
A63G 31/00	16206897	(73) Alfa Laval Corporate AB
A63G 27/00	(32) 21.02.2017	(72) HAGQVIST, Peter
(11) EP3700644	24.12.2016	HÄGGMARK, Carl
(21) EP18745518.3	(33) European Patent Office (EPO)	(74) ir. H.A. Witmans c.s.
(22) 12.07.2018	European Patent Office (EPO)	(47) 10.11.2021
(54) AMUSEMENT RIDE	(47) 19.01.2022	(51) B04C 5/04
(73) Mack Rides GmbH & Co. KG	(51) B02C 4/30	B04C 5/081
(72) SORNIK, Frank	(11) EP3700675	B04C 5/103
(74) J.M.H. Duyver lic.	(21) EP18789608.9	B04C 5/24
(31) 102017125288	(22) 18.10.2018	B04C 9/00
(32) 27.10.2017	(54) CRUSHING ROLL OF A ROLL	B01D 45/12
(33) Germany	CRUSHER AND METHOD FOR	E21B 43/34
(47) 17.11.2021	PRODUCING A CRUSHING ROLL	(11) EP3218115
(51) B01D 53/00	(73) thyssenkrupp AG	(21) EP15794581.7
B01D 53/26	thyssenkrupp Industrial Solutions AG	(22) 13.11.2015
(11) EP3710134	(72) IRMAK, Baris	(54) SOLIDS SEPARATION, WASHING AND
(21) EP18803544.8	EVERMANN, Daniel	SAMPLING SYSTEM
(22) 06.11.2018	(74) ir. M.F.J.M. Ketelaars c.s.	(73) DWC AS
(54) METHOD AND DEVICE FOR	(31) 102017219013	(72) MCCANN, Dominic Patrick
PURIFICATION OR SEPARATION AND	(32) 24.10.2017	BRUNTVEIT, Joergen
COOLING OF A GAS MIXTURE	(33) Germany	AREFJORD, Anders
(73) RAG Austria AG	(47) 01.12.2021	LYNGBOE, Karl Ole Daviksnæs
Linde GmbH	(51) B02C 18/00	(74) ir. A. Blokland c.s.
(72) ADLER, Robert	B02C 19/22	(31) 201420257
KLEIN, Ekkehardt	B02C 21/02	(32) 14.11.2014
HERNEGGER, Michael	B02C 23/02	(33) United Kingdom
NAGL, Christoph	C12P 5/02	(47) 08.12.2021

(51) B04C 5/04 B04C 5/28	(54) DEVICE FOR ELIMINATING NON- CONFORMING ARTICLES FROM A PRODUCT STREAM	B22D 11/16 B22D 11/124
(11) EP2357040	(73) Insort GmbH	(11) EP3634664
(21) EP11153687.6	(72) JEINDL, Matthias	(21) EP18740290.4
(22) 08.02.2011	(74) J.M.H. Duyver lic.	(22) 11.06.2018
(54) Dynamic dust separator	(31) 500092018	(54) DYNAMIC MOLD SHAPE CONTROL
(73) Acticon AB	(32) 10.01.2018	APPARATUS AND SYSTEM FOR
(72) BORANDER, Jerry	(33) Austria	DIRECT CHILL CASTING
(31) 1000125	(47) 27.10.2021	(73) Wagstaff, Inc.
(32) 10.02.2010	(51) B08B 9/043	(72) SHABER, Craig Lee
(33) Sweden	(11) EP3154717	ANDERSON, Michael Kim
(47) 11.08.2021	(21) EP15739004.8	CORDILL, Craig Richard
(51) B05B 1/32	(22) 15.06.2015	(74) dr. W.A.H.M. Van Borm
A61M 11/00	(54) APPLIANCE FOR CLEANING DUCTS	(31) 201715619866
(11) EP3727702	(73) Mobbit NV	(32) 12.06.2017
(21) EP18814595.7	(72) REYGEL, Ronny	(33) United States of America
(22) 05.12.2018	(74) ir. H.A. Witmans c.s.	(47) 22.12.2021
(54) SPRAY NOZZLE CHIP AND A MEDICAMENT DELIVERY DEVICE COMPRISING THE SAME	(31) 201400455	(51) B22F 10/28
(73) SHL Medical AG	(32) 16.06.2014	B22F 12/30
(72) STEMME, Göran	(33) Belgium	B33Y 10/00
LAST, Torben	(47) 17.11.2021	B33Y 30/00
ROXHED, Niclas	(51) B09C 1/02	B29C 64/20
(31) 17209321	B09C 1/08	B29C 64/227
(32) 21.12.2017	A62D 3/33	(11) EP3624966
(33) European Patent Office (EPO)	(11) EP3492187	(21) EP18719520.1
(47) 17.11.2021	(21) EP18210164.2	(22) 19.04.2018
(51) B05B 7/24	(22) 04.12.2018	(54) DEVICE AND METHOD FOR
B65D 83/54	(54) CURBING TOXIC EMISSIONS FROM CONTAMINATED SUBSTRATE	PRODUCING THREE-DIMENSIONAL
B65D 83/14	(73) ENVIT, Environmental Technologies and Engineering Ltd.	WORKPIECES
B05B 1/12	(72) Lestan, Domen	(73) SLM Solutions Group AG
A61F 9/00	(74) ir. M.F.J.M. Ketelaars c.s.	(72) WILKES, Jan
G01F 11/02	(31) 201720126	ROESGEN, Lukas
(11) EP3738677	(32) 04.12.2017	HOPPE, Birk
(21) EP19382382.0	(33) United Kingdom	(74) J.M.H. Duyver lic.
(22) 16.05.2019	(47) 20.10.2021	(31) 102017208496
(54) A DEVICE SUITABLE FOR DISPENSING LIQUID SUBSTANCES	(51) B21C 37/29	(32) 19.05.2017
(73) Brill Engines, S.L.	(11) EP3801944	(33) Germany
(72) BUISAN FERRER, Josep	(21) EP19736973.9	(47) 22.12.2021
NIETO CAVIA, Laura	(22) 29.05.2019	(51) B23B 49/00
(74) ir. J.C. Volmer c.s.	(54) PRODUCING AN OUTLET ON A HOLLOW BODY	(11) EP3281741
(47) 08.12.2021	(73) ATG Automations-Technik Gröditz GmbH & Co. KG	(21) EP17185214.8
(51) B05D 5/06	(72) KEIL, Ulrich	(22) 08.08.2017
B05D 7/14	(74) ir. F.A. Geurts c.s.	(54) METHOD AND DEVICE FOR
B05D 7/00	(31) 102018112845	MACHINING A WORKPIECE ON
(11) EP3634650	(32) 29.05.2018	A NUMERICALLY CONTROLLED
(21) EP18733722.5	(33) Germany	MACHINE TOOL
(22) 24.05.2018	(47) 27.10.2021	(73) DMG MORI Ultrasonic Lasertec GmbH
(54) MULTI-LAYERED FINISHES FOR CAN ENDS	(51) B21D 35/00	(72) Praetorius, Manuel
(73) Novelis Inc.	(11) EP3301197	Ketelaer, Jens
(72) HOEHNE, Joerg	(21) EP16191364.5	(74) ir. M.F.J.M. Ketelaars c.s.
WUTTKE, Manuela	(22) 29.09.2016	(31) 102016214699
CAMPBELL, Ian Mussen	(54) METHOD FOR COLD DEFORMATION OF AN AUSTENITIC STEEL	(32) 08.08.2016
SCHWAGER, Caecilia	(73) Outokumpu Oyj	(33) Germany
WUTTKE, Thomas	(72) Lindner, Stefan	(47) 15.12.2021
(74) ir. W.J.J.M. Kempes	Piniak, Thorsten	(51) B24B 23/02
(31) 201762516281 P	Fröhlich, Thomas	B24B 55/10
(32) 07.06.2017	(74) ir. W.J.J.M. Kempes	B24B 7/18
(33) United States of America	(47) 27.10.2021	(11) EP3246127
(47) 29.12.2021	(51) B22D 11/049	(21) EP17165696.0
(51) B07C 5/36	B22D 11/05	(22) 10.04.2017
B07C 5/342	B22D 11/055	(54) MANUALLY OPERATED MACHINE
(11) EP3737510		TOOL WITH A POSITIONING SPRING
(21) EP19700852.7		ASSEMBLY
(22) 04.01.2019		(73) Festool GmbH
		(72) Barth, Volker
		Knecht, Nicolai
		(74) ir. H.A. Witmans c.s.
		(31) 102016106555

(32) 11.04.2016	(32) 02.09.2016	(32) 19.06.2019
(33) Germany	(33) France	(33) Germany
(47) 15.12.2021	(47) 01.12.2021	(47) 03.11.2021
(51) B25B 5/00	(51) B29C 44/34	(51) B29C 48/08
B25B 11/00	B29C 48/04	B29C 48/154
B60J 1/00	C08J 9/35	B29C 48/155
B62D 65/06	C08J 9/12	B29C 48/21
(11) EP3278930	C08J 9/36	B29C 48/255
(21) EP17183931.9	(11) EP3154762	B29C 48/86
(22) 31.07.2017	(21) EP15732054.0	B05D 1/26
(54) DEVICE FOR INSTALLING OR REMOVING A MOTOR VEHICLE WINDOW PANE	(22) 11.06.2015	B29C 70/88
(73) VBSA	(54) LOW TEMPERATURE PROCESS FOR INTEGRATING A POLYMERIC FOAM WITH A POLYMERIC BODY	(11) EP3589474
(74) dr. W.A.H.M. Van Borm	(73) Instituto de Capacitacion e Investigacion del Plastico y del Caucho ICIPC Plásticos Técnicos Mexicanos, S.A. de C.V.	(21) EP18716016.3
(31) 1657501	(72) HERNANDEZ, Alexander	(22) 05.03.2018
(32) 02.08.2016	LOPEZ, Ivan Dario	(54) METHODS FOR DISPENSING AND ADHERING HOT MELT ENTRAINED POLYMERS TO SUBSTRATES
(33) France	PEÑA, Jose Ricardo	(73) CSP Technologies, Inc.
(47) 03.11.2021	MULHOLLAND,, Thomas Collin	(72) LUCAS, JR., Franklin Lee
(51) B27B 33/20	NARANJO CARVAJAL, Alberto	PETERS, Gary
B27B 7/04	(74) ir. M.F.J.M. Ketelaars c.s.	FREEDMAN, Jonathan R.
B27L 11/00	(31) 201514730960	(74) ir. W.J.J.M. Kempes
(11) EP3380288	201462011296 P	(31) 201762466435 P
(21) EP16868082.5	(32) 04.06.2015	(32) 03.03.2017
(22) 24.11.2016	12.06.2014	(33) United States of America
(54) APPARATUS AND METHOD FOR PROCESSING LOGS	(33) United States of America	(47) 27.10.2021
(73) Veisto OY	United States of America	(51) B29C 65/18
(72) HALTTUNEN, Tuomas	(47) 17.11.2021	B29C 65/30
RAUTIO, Markku	(51) B29C 45/14	B29C 65/74
(74) mr. ir. J. van Breda c.s.	H05K 1/03	B29C 65/78
(31) 20155866	H05K 1/16	B65B 51/30
(32) 24.11.2015	H05K 1/18	B65B 61/06
(33) Finland	B29L 31/34	(11) EP3708343
(47) 29.12.2021	H05K 1/02	(21) EP19382187.3
(51) B28B 1/52	H05K 3/00	(22) 15.03.2019
B28B 5/02	(11) EP3049227	(54) SEALING APPARATUS FOR A PACKAGING MACHINE
B28B 7/46	(21) EP14849632.6	(73) Ulma Packaging Technological Center, S.Coop.
E04C 2/04	(22) 25.09.2014	(72) OTXOA-AIZPURUA CALVO, Alberto
(11) EP3647009	(54) METHOD FOR MANUFACTURING AN ELECTROMECHANICAL STRUCTURE AND AN ARRANGEMENT FOR CARRYING OUT THE METHOD	(74) ir. W.J.J.M. Kempes
(21) EP19202094.9	(73) TactoTek Oy	(47) 08.12.2021
(22) 08.10.2019	(72) TORVINEN, Jarkko	(51) B29C 70/02
(54) GYPSUM FIBRE BOARD AND METHOD AND DEVICE FOR MANUFACTURING SAME	KERÄNEN, Antti	B32B 5/22
(73) James Hardie Europe GmbH	HEIKKINEN, Mikko	B32B 5/24
(72) Gudermuth, Thomas	RAAPPANA, Pasi	B32B 5/08
Blasig, André	SIPPARI, Mikko	B32B 5/26
Dietrich, Thomas	NISKALA, Paavo	B32B 37/15
(74) ir. A. Blokland c.s.	SÄÄSKI, Jarmo	B32B 38/08
(31) 102018218512	(74) ir. H.A. Witmans c.s.	(11) EP3334591
(32) 29.10.2018	(31) 201361883484 P	(21) EP16758007.5
(33) Germany	(32) 27.09.2013	(22) 10.08.2016
(47) 08.12.2021	(33) United States of America	(54) PREPREG MATERIAL CAPABLE OF PROVIDING LIGHTNING STRIKE PROTECTION AND BURN-THROUGH RESISTANCE AND METHOD FOR ITS MANUFACTURE
(51) B29B 11/16	(47) 27.10.2021	(73) Cytec Industries Inc.
B29K 307/04	(51) B29C 45/76	(74) ir. W.J.J.M. Kempes
(11) EP3507068	(11) EP3774268	(31) 201562203021 P
(21) EP17761077.1	(21) EP20732847.7	(32) 10.08.2015
(22) 01.09.2017	(22) 12.06.2020	(33) United States of America
(54) FIBROUS STRUCTURE AND 3D PREFORM FOR A COMPOSITE PART	(54) METHOD FOR PROVIDING AN OPERATING SYSTEM OF A MACHINE CONTROLLER	(47) 03.11.2021
(73) Porcher Industries	(73) Arburg GmbH + Co KG	(51) B29C 70/54
(72) VARANIAC, Patrick	(74) ir. M.F.J.M. Ketelaars c.s.	B29D 99/00
DUSSENNE, William	(31) 102019208937	B29B 11/16
RISICATO, Jean Vincent		B29K 101/12
PERRIN, Hubert		B29L 31/30
(74) ir. M.F.J.M. Ketelaars c.s.		
(31) 1658181		

(11) EP3233439	(22) 30.10.2006	0819214
(21) EP15816784.1	(54) COATED STEEL STRIPS, METHODS	(32) 23.03.2009
(22) 21.12.2015	OF MAKING THE SAME, METHODS	20.10.2008
(54) METHOD FOR PREPARING FOR THE	OF USING THE SAME, STAMPING	20.10.2008
DRAPE FORMING OF A COMPOSITE	BLANKS PREPARED FROM THE	20.10.2008
PREFORM	SAME, STAMPED PRODUCTS	(33) United Kingdom
(73) Daher Aerospace	PREPARED FROM THE SAME, AND	United Kingdom
(72) VAUDOUR, Julie	ARTICLES OF MANUFACTURE	United Kingdom
PORTET, Stéphane	WHICH CONTAIN SUCH A STAMPED	United Kingdom
(74) ir. F.A. Geurts c.s.	PRODUCT	(47) 20.10.2021
(31) 1462877	(73) ArcelorMittal	(51) B32B 38/10
(32) 19.12.2014	(72) SPEHNER, Dominique	B32B 7/06
(33) France	KEFFERSTEIN, Ronald	B05D 5/10
(47) 01.12.2021	DRILLET, Pascal	B32B 7/10
(51) B32B 5/02	(74) ir. M.F.J.M. Ketelaars c.s.	B32B 7/12
B32B 5/18	(47) 01.12.2021	B32B 27/18
B32B 5/24	(51) B32B 15/12	B32B 27/32
B32B 7/12	B32B 27/10	(11) EP3307538
B32B 27/12	B32B 15/08	(21) EP16812214.1
B32B 27/36	B32B 15/20	(22) 14.06.2016
B32B 27/40	B32B 27/32	(54) ON DEMAND RADIATION
D01D 5/34	B32B 29/00	INDUCED CONSTRUCTIVE AND
D04H 1/541	B32B 3/30	DECONSTRUCTIVE CHEMICAL
(11) EP3676088	B32B 3/26	REACTIONS
(21) EP19774101.0	B32B 38/04	(73) Immunolight, LLC.
(22) 25.09.2019	B32B 37/00	(72) PACANOVSKI, John
(54) COMPOSITE FILM	B32B 37/15	BOURKE, Frederic, A., Jr.
(73) EWALD DÖRKEN AG	B32B 3/20	FATHI, Zakaryae
(72) BACHON, Thomas	B32B 37/20	(74) mr. R. Zwamborn
(74) ir. W.J.J.M. Kempes	(11) EP3409465	(31) 201562175683 P
(31) 102018008583	(21) EP18179875.2	(32) 15.06.2015
(32) 31.10.2018	(22) 13.04.2011	(33) United States of America
(33) Germany	(54) PACKAGING LAMINATE	(47) 27.10.2021
(47) 24.11.2021	(73) Tetra Laval Holdings & Finance S.A.	(51) B32B 43/00
(51) B32B 5/08	(72) HESSMARK, Andreas	B23K 26/53
B32B 5/02	POSTOACA, Ion	B32B 17/10
B32B 5/24	PERSSON, Åke	(11) EP3814139
B32B 5/26	UVNÄS, Krister	(21) EP20702973.7
D04H 1/00	KEITER, Sven	(22) 21.01.2020
D04H 1/06	JUST, Magnus	(54) APPARATUS AND METHOD FOR
D04H 3/00	(74) ir. W.J.J.M. Kempes	SEPARATING A COMPOSITE SAFETY
F41H 5/04	(31) 1000382	GLASS PANEL
(11) EP3397475	(32) 15.04.2010	(73) HEGLA GmbH & Co. KG
(21) EP16882283.1	(33) Sweden	(72) THIELE, Benjamin
(22) 08.12.2016	(47) 10.11.2021	OSTENDARP, Heinrich
(54) BALLISTIC MATERIAL	(51) B32B 37/24	RAINER, Thomas
INCORPORATING SPUNLACED	B32B 38/00	LUSTER, Andreas
NONWOVENS AND METHOD OF	B32B 38/06	(74) ir. A. Blokland c.s.
MAKING A BALLISTIC MATERIAL	B32B 38/10	(31) 102019116560
(73) DuPont Safety & Construction, Inc.	B32B 37/02	102019200757
(72) PRICE, Allen L.	B29C 43/20	(32) 18.06.2019
MUSCIANO, Courtney	B29C 43/34	22.01.2019
LANGLEY, Matt	B27D 1/08	(33) Germany
JANCO, Scott	B27N 3/06	Germany
BRAHMS, David	E04F 15/02	(47) 08.12.2021
GALLACHER, Vincent	E04D 1/26	(51) B33Y 30/00
GRAVEL, Robert	B29C 44/14	B29C 64/118
BARTER, Eric A.	(11) EP3254851	B29C 64/393
STAHL, James	(21) EP17163182.3	B33Y 50/02
(74) ir. H.A. Witmans c.s.	(22) 20.10.2009	B29C 64/106
(31) 201514985897	(54) COMPOSITE PRODUCT WITH	B33Y 10/00
(32) 31.12.2015	SURFACE EFFECT	(11) EP3636435
(33) United States of America	(73) Acell Industries Limited	(21) EP19213840.2
(47) 17.11.2021	(72) ALBERTELLI, Aldino	(22) 25.02.2015
(51) B32B 15/00	(74) ir. F.A. Geurts c.s.	(54) METHOD OF OPERATING A 3D
C21D 9/46	(31) 0904912	PRINTER
(11) EP3290200	0819213	(73) Yuyama, Seiichi
(21) EP17192418.6	0819212	(72) Yuyama, Seiichi

(74) ir. M.F.J.M. Ketelaars c.s.	(54) OPTICAL SECURITY ELEMENT	(74) ir. W.J.J.M. Kempes
(31) 2014033906	(73) SICPA HOLDING SA	(47) 10.11.2021
(32) 25.02.2014	(72) GARNIER, Christophe	(51) B60P 3/20
(33) Japan	MAYER, Alain	(11) EP3699027
(47) 08.12.2021	TESTUZ, Romain	(21) EP20158079.2
(51) B41F 17/18	CALLEGARI, Andrea	(22) 18.02.2020
B41F 17/20	SCHWARTZBURG, Yuliy	(54) SYSTEM FOR PARTITION INSIDE
B41J 3/407	DINOEV, Todor	A CLOSED SPACE SUCH AS THE
B41F 17/00	DEGOTT, Pierre	LOADING COMPARTMENT OF A
F16D 27/01	PAULY, Mark	REFRIGERATED VEHICLE
(11) EP3535129	(74) dr. W.A.H.M. Van Borm	(73) Pommier
(21) EP17797115.7	(31) 17194209	(72) GUIDETTI, Stefano
(22) 02.11.2017	(32) 29.09.2017	(74) J.M.H. Duyver lic.
(54) PRINTING APPARATUS	(33) European Patent Office (EPO)	(31) 1901670
(73) Tonejet Limited	(47) 17.11.2021	(32) 19.02.2019
(72) SHARP, John Lawton	(51) B44C 5/04	(33) France
EDWARDS, Simon John	B27D 5/00	(47) 08.12.2021
WOODS, Jeffrey Mark	B29C 63/00	(51) B60P 7/12
INGHAM, Ian Philip Butler	(11) EP3768522	B65D 71/00
(74) J.M.H. Duyver lic.	(21) EP20712219.3	(11) EP3694747
(31) 16196961	(22) 05.03.2020	(21) EP18816271.3
16196962	(54) POST-FORMING LAMINATE	(22) 08.10.2018
16196963	(73) Kaindl Invest GmbH	(54) METHOD FOR SECURING PACKING
16196965	(72) FALLER, Christian	UNITS, AND FIXING HOLDER FOR
(32) 02.11.2016	(74) J.M.H. Duyver lic.	USE IN THE METHOD
02.11.2016	(31) 102019205220	(73) Invago B.V.
02.11.2016	(32) 11.04.2019	(72) VAN GOCH, André
02.11.2016	(33) Germany	(74) ir. A. Blokland c.s.
(33) European Patent Office (EPO)	(47) 29.12.2021	(31) 1042574
European Patent Office (EPO)	(51) B44C 5/04	(32) 09.10.2017
European Patent Office (EPO)	B32B 5/00	(33) Netherlands
European Patent Office (EPO)	B29C 41/00	(47) 01.12.2021
(47) 22.12.2021	B32B 27/00	(51) B60R 21/205
(51) B41J 2/14	(11) EP3578384	B60R 21/2165
(11) EP3710276	(21) EP18175889.7	(11) EP3805052
(21) EP19706162.5	(22) 05.06.2018	(21) EP20197368.2
(22) 06.02.2019	(54) SUBSTRATE BASED ON A PLASTIC	(22) 22.09.2020
(54) DIE FOR A PRINTHEAD	COMPOSITION AND SOLID	(54) AIRBAG FLAP SYSTEM WITH
(73) HEWLETT-PACKARD DEVELOPMENT	COMPOSITION ON MINERAL BASIS	EDGE RECESSES OF DIFFERENT
COMPANY, L.P.	FOR DECORATED WALL OR FLOOR	THICKNESS
(72) GARDNER, James Michael	PANELS	(73) StreetScooter GmbH
CUMBIE, Michael W.	(73) Akzenta Paneele + Profile GmbH	(72) Radulescu, Cosmin Florian
FULLER, Anthony M	(72) HANING, Hans-Jürgen	Schorn, Klaus
(74) dr. W.A.H.M. Van Borm	HOFF, Egon	Shallar, Dennis
(47) 08.12.2021	(74) drs. J. Renkema	Renn, Waltraud
(51) B41J 3/407	(47) 20.10.2021	(74) dr. A. Krebs
B29C 67/00	(51) B60C 19/00	(31) 102019126901
B29D 11/00	B60C 5/00	(32) 07.10.2019
(11) EP3332975	(11) EP3213937	(33) Germany
(21) EP16203420.1	(21) EP14905152.6	(47) 15.12.2021
(22) 12.12.2016	(22) 30.10.2014	(51) B61L 23/28
(54) PRINTING SYSTEM AND METHOD	(54) VIBRATION SUPPRESSION TIRE	B61L 23/34
FOR PRINTING A THREE-	(73) Acoustic Innovations Co., Ltd.	(11) EP3500475
DIMENSIONAL OPTICAL STRUCTURE,	(72) HAWKINS, Sanford Elliot	(21) EP17783735.8
PROVIDING REAL-TIME QUALITY	SOMA, Ippei	(22) 22.09.2017
CONTROL OF THE PRINTED OPTICAL	(74) ir. W.J.J.M. Kempes	(54) METHOD, CENTRAL SYSTEM AND
STRUCTURE	(47) 08.12.2021	VEHICLE-BORNE TRAIN CONTROL
(73) Luxexcel Holding B.V.	(51) B60H 1/00	APPARATUS FOR OPERATING RAIL
(72) VAN DEN HEUVEL, Kevin-Koos	B60H 1/32	VEHICLES
BISKOP, Joris	B60P 3/20	(73) Siemens Mobility GmbH
GROET, Guido	B62D 33/04	(72) WERNICKE, Manfred
(74) ir. W.J.J.M. Kempes	(11) EP3789220	(74) ir. M.F.J.M. Ketelaars c.s.
(47) 08.12.2021	(21) EP19195466.8	(31) 102016220215
(51) B42D 25/324	(22) 04.09.2019	(32) 17.10.2016
B42D 25/435	(54) BRACKET FOR A POWER MODULE OF	(33) Germany
(11) EP3687825	A TRANSPORT REFRIGERATION UNIT	(47) 27.10.2021
(21) EP18773479.3	(73) Thermo King Corporation	(51) B61L 27/00
(22) 28.09.2018	(72) CHELLAN, Senthil Kumar	

B61L 5/02	BREWER, Brian Ray	(47) 10.11.2021
B61L 5/04	(74) dr. ir. G.J.C. Verdijck c.s.	(51) B64D 11/00
B61L 5/06	(31) 102017003989	B64D 11/06
B61L 1/20	(32) 24.02.2017	B64D 11/02
(11) EP3661829	(33) Brazil	(11) EP3523196
(21) EP18778815.3	(47) 17.11.2021	(21) EP17788031.7
(22) 07.09.2018	(51) B63B 1/30	(22) 06.10.2017
(54) METHOD FOR DETERMINING AN ACTUATING FORCE OF A RAILWAY SWITCH ASSEMBLY ON THE BASIS OF SOUND EMISSION MEASUREMENTS AND RAILWAY SWITCH SYSTEM	B63B 39/06	(54) AIRCRAFT MODULAR LAVATORY SYSTEM
(73) Siemens Mobility GmbH	(11) EP3638578	(73) B/E Aerospace, Inc.
(72) SCHULZE, Michael	(21) EP18732039.5	(72) MCKEE, Jefferey
(74) ir. M.F.J.M. Ketelaars c.s.	(22) 14.06.2018	SKELLY, Trevor
(31) 102017217414	(54) RETRACTABLE FOIL MECHANISM	(74) ir. M.F.J.M. Ketelaars c.s.
(32) 29.09.2017	(73) Wavefoil AS	(31) 201615288823
(33) Germany	(72) YRKE, Audun	(32) 07.10.2016
(47) 27.10.2021	(74) J.M.H. Duyver lic.	(33) United States of America
(51) B62B 7/00	(31) 20170987	(47) 01.12.2021
B62B 9/28	201710201	(51) B64D 11/02
B62B 9/08	(32) 16.06.2017	B64D 11/06
B62B 5/04	27.06.2017	B64D 11/00
B62B 9/00	(33) Norway	(11) EP3129284
(11) EP3680146	United Kingdom	(21) EP15717753.6
(21) EP20151636.6	(47) 01.12.2021	(22) 06.04.2015
(22) 14.01.2020	(51) B63B 21/18	(54) MODULAR LAVATORY SYSTEM OPTIMIZED FOR NARROW BODY COMMERCIAL AIRCRAFT
(54) ACCESSORY FOR PUSHCHAIR, AND ASSEMBLY FORMING A DOUBLE PUSHCHAIR	B63B 21/10	(73) B/E Aerospace, Inc.
(73) BABYZEN	B63B 21/50	(74) ir. W.J.J.M. Kempes
(72) Chaudeurge, Jean-Michel	B63B 21/08	(31) 201514677626
(74) ir. M.F.J.M. Ketelaars c.s.	(11) EP3414155	201461976342 P
(31) 1909819	(21) EP17708568.5	(32) 02.04.2015
1900316	(22) 10.02.2017	07.04.2014
(32) 06.09.2019	(54) IMPROVED CHAIN STOPPER	(33) United States of America
14.01.2019	(73) Flintstone Technology Limited	United States of America
(33) France	(74) ir. H.A. Witmans c.s.	(47) 03.11.2021
France	(31) 201602400	(51) B64F 1/02
(47) 24.11.2021	(32) 10.02.2016	(11) EP3700817
(51) B62J 1/12	(33) United Kingdom	(21) EP18792944.3
B62K 19/46	(47) 03.11.2021	(22) 26.10.2018
(11) EP3704006	(51) B64C 1/30	(54) DECK LANDING SYSTEM FOR AIRCRAFTS
(21) EP18796414.3	B64C 39/02	(73) Magnaghi Aeronautica S.p.A.
(22) 30.10.2018	B64D 1/18	(72) MANZO, Pierluigi
(54) ELECTRIC DRIVE MOTORCYCLE	B64C 27/50	PERSICO, Pietro
(73) Piaggio & C. SpA	(11) EP3678935	(74) ir. A. Blokland c.s.
(72) SISI, Alessio	(21) EP18922110.4	(31) 201700122705
CARMIGNANI, Luca	(22) 30.11.2018	(32) 27.10.2017
GUIDI, Emiliano	(54) FOLDABLE UNMANNED AERIAL VEHICLE	(33) Italy
(74) J.M.H. Duyver lic.	(73) SZ DJI Technology Co., Ltd.	(47) 10.11.2021
(31) 201700124880	(72) ZHOU, Le	(51) B65B 11/02
(32) 02.11.2017	GUO, Chaofan	B65B 11/04
(33) Italy	WU, Xiaolong	B65B 41/16
(47) 29.12.2021	LU, Chuoying	B65B 57/04
(51) B62M 1/26	(74) ir. F.A. Geurts c.s.	(11) EP3448759
B62K 15/00	(47) 10.11.2021	(21) EP17790446.3
B62K 3/00	(51) B64C 27/08	(22) 27.04.2017
B62K 21/18	B64C 3/56	(54) AUTOMATIC ROLL CHANGE FOR STRETCH WRAPPING MACHINE
B62M 3/08	B64C 27/37	(73) Lantech.Com, Llc
(11) EP3587231	B64C 27/32	(72) MCCRAY, Jeremy D.
(21) EP17897244.4	B64C 1/30	JOHNSON, Richard L.
(22) 31.03.2017	(11) EP3419894	MARTIN, Curtis W.
(54) IMPROVEMENTS TO A FOLDING ELLIPTICAL BICYCLE	(21) EP16890955.4	(74) ir. H.A. Witmans c.s.
(73) Aruanã Energia S/A	(22) 22.02.2016	(31) 201662329181 P
(72) MCKINNON, Robert James	(54) FOLDABLE MULTI-ROTOR AERIAL VEHICLE	(32) 28.04.2016
	(73) SZ DJI Technology Co., Ltd.	(33) United States of America
	(72) DENG, Yumian	(47) 29.12.2021
	ZHAO, Tao	
	TANG, Yin	
	XIONG, Rongming	
	(74) ir. F.A. Geurts c.s.	

(51) B65B 23/00 B65B 23/10 B65G 27/10 B65G 27/12 B65G 47/16 B65G 49/05 B65B 5/06 B65G 1/02	(54) RESEALABLE CONTAINER WITH IMPROVED RECLOSABLE ADHESIVE LABEL	FELDMANN, Holger PAHNKE, Jan FERNANDES DE CARVALHO, Kerstin
(11) EP3752426 (21) EP19709221.6 (22) 19.02.2019	(73) Philip Morris Products S.A. (72) BOURGOIN, Philippe RUTZINGER, Elke	(74) ir. M.F.J.M. Ketelaars c.s. (31) 102018101338 (32) 22.01.2018
(54) SYSTEM AND METHOD FOR LOADING, TRANSPORTING AND UNLOADING FRANGIBLE PRODUCTS	(74) dr. W.A.H.M. Van Borm (31) 16177360 (32) 30.06.2016 (33) European Patent Office (EPO) (47) 15.12.2021	(33) Germany (47) 24.11.2021
(73) Svejkovsky, Paul, Blake (72) Svejkovsky, Paul, Blake (74) dr. A. Krebs (31) 201862631705 P (32) 17.02.2018 (33) United States of America (47) 05.01.2022	(31) 16177360 (32) 30.06.2016 (33) European Patent Office (EPO) (47) 15.12.2021	(47) 24.11.2021
(51) B65D 19/32 (11) EP3512778 (21) EP16916159.3 (22) 15.09.2016	(51) B65D 81/20 B65D 43/16 B65D 51/20 B65D 51/24 G06Q 30/02 H04L 9/32 B65B 31/00 B65B 7/28 G06Q 10/08 B65B 57/00	(51) B65D 88/70 F16K 31/122 F16K 15/06
(54) REINFORCED PLASTIC PALLET	(11) EP3728070 (21) EP18839940.6 (22) 18.12.2018 (54) METHOD FOR PROVISIONING A CONTAINER WITH FOOD	(11) EP3347632 (21) EP16845212.6 (22) 09.09.2016 (54) SANITARY HIGH PRESSURE AERATOR VALVE ASSEMBLY
(73) Plásticos Técnicos Mexicanos, S.A. de C.V. (72) PEÑA ZAPATA, Jose Ricardo GÓMEZ CAUDILLO, Alejandro BACA SÁNCHEZ, Juan Pedro SPENCER WHITE, Marshall (74) dr. A. Ellens c.s. (47) 10.11.2021	(73) N.V. Nutricia (72) FISCHBACH, Elmar Martin (74) ir. M.F.J.M. Ketelaars c.s. (31) PCT/NL2017/050844 (32) 18.12.2017 (33) World Intellectual Property Office (WIPO) (47) 20.10.2021	(73) Control Concepts, Inc. (72) SMITH, Daniel, S. TIFFANY, Henry, D ROSE, Paul, S. HALL, Aaron, G. (74) ir. W.J.J.M. Kempes (31) 201562215963 P (32) 09.09.2015 (33) United States of America (47) 20.10.2021
(51) B65D 43/02 (11) EP3590863 (21) EP19184670.8 (22) 05.07.2019	(51) B65D 81/32 (11) EP3497034 (21) EP17752183.8 (22) 07.08.2017 (54) USE OF A BAG HAVING AN INNER AND AN OUTER COMPARTMENT FOR FERTILIZERS	(51) B65F 1/14 G09F 7/10 (11) EP3668806 (21) EP18856440.5 (22) 12.09.2018 (54) SIGNALING MECHANISM
(54) PACKAGING CONTAINERS WITH TAMPER-PROOF SYSTEM	(73) Fertilizers And Chemicals Ltd Barnea, Eyal Beer, Yaron Shmueli, Dan Sharmi, Yariv Raisky, Michael Plasto-Sac Ltd. Barak, Eran	(73) bintel AB (72) JOHANSEN, Tom (74) ir. M.F.J.M. Ketelaars c.s. (31) 1730254 (32) 18.09.2017 (33) Sweden (47) 27.10.2021
(73) Groupe Guillin (72) MICHON, Frédéric (74) dr. W.A.H.M. Van Borm (31) 1870814 (32) 06.07.2018 (33) France (47) 24.11.2021	(73) Fertilizers And Chemicals Ltd Barnea, Eyal Beer, Yaron Shmueli, Dan Sharmi, Yariv Raisky, Michael Plasto-Sac Ltd. Barak, Eran	(54) VEHICLE FOR AN AUTOMATED STORAGE AND RETRIEVAL SYSTEM.
(51) B65D 51/28 A61B 10/00 B01L 3/00 (11) EP3222551 (21) EP17161530.5 (22) 17.03.2017	(72) SHMUELI, Dan BARNEA, Eyal BARAK, Eran RAISKY, Michael SHARMI, Yariv BEER, Yaron (74) drs. W.H.P. Derks (31) 24724016 (32) 09.08.2016 (33) Israel (47) 20.10.2021	(73) Autostore Technology AS (72) FJELDHEIM, Ivar AUSTRHEIM, Trond (74) dr. A. Krebs (31) 20171676 (32) 19.10.2017 (33) Norway (47) 29.12.2021
(54) CONTAINMENT DEVICE FOR BIOLOGICAL SAMPLES	(74) drs. W.H.P. Derks (31) 24724016 (32) 09.08.2016 (33) Israel (47) 20.10.2021	(54) PIN RETENTION FOR CONVEYOR MODULES
(73) Kaltek S.r.l. (72) CORTELAZZO, Lorenzo (74) ir. J.C. Volmer c.s. (31) UA20161845 (32) 21.03.2016 (33) Italy (47) 22.12.2021	(51) B65D 85/804 (11) EP3743359 (21) EP19702040.7 (22) 22.01.2019 (54) METHOD FOR PRODUCING A BEVERAGE USING A PORTION PACK, AND PORTION PACK	(51) B65G 17/08 B65G 17/40 (11) EP3653543 (21) EP19220053.3 (22) 23.05.2017 (54) PIN RETENTION FOR CONVEYOR MODULES
(51) B65D 75/58 B65D 85/10 (11) EP3478598 (21) EP17733816.7 (22) 27.06.2017	(54) METHOD FOR PRODUCING A BEVERAGE USING A PORTION PACK, AND PORTION PACK (73) Melitta Single Portions GmbH & Co. KG (72) SCHANDL, Gerold	(73) Habasit AG (72) Richardson, Andrew (74) ir. M.F.J.M. Ketelaars c.s. (31) 201615163642 (32) 24.05.2016 (33) United States of America (47) 01.12.2021

(51) B65G 53/60 B65G 53/52	(51) B66C 13/02 E21B 19/00	(22) 24.07.2019
(11) EP3366618	(11) EP3301062	(54) A FORK CARRIAGE FOR A TRUCK MOUNTED FORKLIFT
(21) EP18157375.9	(21) EP16192011.1	(73) Cargotec Research & Development Ireland Limited
(22) 19.02.2018	(22) 03.10.2016	(74) J.M.H. Duyver lic.
(54) CONVEYOR INSTALLATION AND METHOD FOR CONVEYING PLASTICS GRANULATE	(54) SYSTEM ARRANGED ON A MARINE VESSEL OR PLATFORM, SUCH AS FOR PROVIDING HEAVE COMPENSATION AND HOISTING	(31) 201812047
(73) Coperion GmbH	(73) National Oilwell Varco Norway AS	(32) 24.07.2018
(72) Stark, Bernhard Vögele, Thomas Toni, Christian Duerr, Michael Dikreuter, Christian	(74) ir. A. Blokland c.s.	(33) United Kingdom
(74) ir. M.F.J.M. Ketelaars c.s.	(47) 03.11.2021	(47) 03.11.2021
(31) 102017203089	(51) B66C 13/40	(51) B68G 11/06
(32) 24.02.2017	B66C 13/54	A47G 9/10
(33) Germany	E02F 9/16	A47C 27/14
(47) 01.12.2021	E02F 9/20	A47C 27/15
(51) B65G 63/00	G09B 9/05	B29C 44/12
G05D 1/02	(11) EP3408210	A47C 27/08
(11) EP3475202	(21) EP17721522.5	B29C 33/18
(21) EP17732398.7	(22) 07.04.2017	B29L 31/00
(22) 21.06.2017	(54) REMOTE-CONTROL DEVICE FOR A CRANE, CONSTRUCTION MACHINE, AND/OR INDUSTRIAL TRUCK	B29K 75/00
(54) SYSTEM FOR TRANSPORTING CONTAINERS USING AUTOMATED AND MANUALLY DRIVEN HEAVY GOODS VEHICLES	(73) Liebherr-Components Biberach GmbH	B29K 105/00
(73) Konecranes Global Corporation	(72) FENKER, Oliver	B29K 675/00
(72) SCHMIDT-EWIG, Jan-Philipp	RESCH, Jürgen	(11) EP3194328
EICHNER, Heinz	PALBERG, Michael	(21) EP15842913.4
WIESCHEMANN, Armin	(74) ir. M.F.J.M. Ketelaars c.s.	(22) 16.09.2015
SCHULZ, Heiko	(31) 202016002295 U	(54) GEL MOLDED PILLOW AND METHOD OF PRODUCING THE SAME
ALDEJOHANN, Stefan	(32) 08.04.2016	(73) Tempur World, LLC
(74) ir. W.J.J.M. Kempes	(33) Germany	(72) IVES, James T.
(31) 102016111447	(47) 20.10.2021	(74) ir. H.A. Witmans c.s.
(32) 22.06.2016	(51) B66C 23/34	(31) 201414487296
(33) Germany	B66C 23/82	(32) 16.09.2014
(47) 10.11.2021	B66C 1/12	(33) United States of America
(51) B65H 35/00	(11) EP3724123	(47) 15.12.2021
A61F 15/00	(21) EP19714842.2	(51) B81B 1/00
(11) EP3665113	(22) 23.01.2019	(11) EP3549905
(21) EP18779566.1	(54) EXPANDABLE HEAVY EQUIPMENT, ELONGATED PULL ELEMENT, AND USE OF EXPANDABLE HEAVY EQUIPMENT	(21) EP19158130.5
(22) 08.08.2018	(73) Cabin Air Group B.V.	(22) 28.03.2011
(54) UNWINDING DEVICE	(72) VAN DER SCHUIT, Rinze Jan	(54) DEVICE FOR FORMING DROPS IN A MICROFLUIDIC CIRCUIT
(73) Endriss, Ditte	(74) ir. R. Wijnstra	(73) Ecole Polytechnique Centre National de la Recherche Scientifique
(72) Endriss, Ditte	(31) 2020319	(74) ir. W.J.J.M. Kempes
(74) J.M.H. Duyver lic.	(32) 25.01.2018	(31) 1001298
(31) 102017118007	(33) Netherlands	(32) 30.03.2010
(32) 08.08.2017	(47) 27.10.2021	(33) France
(33) Germany	(51) B66C 23/76	(47) 03.11.2021
(47) 24.11.2021	B66C 23/74	(51) C01B 32/50
(51) B65H 75/18	(11) EP3573917	B01D 53/62
B65H 75/14	(21) EP18811082.9	C01B 32/60
(11) EP3632828	(22) 20.04.2018	F01K 13/00
(21) EP19193404.1	(54) A COUNTERWEIGHT LIFTING ARM MECHANISM FOR KNUCKLE BOOM CRANES	F01K 25/10
(22) 21.07.2016	(73) Erkin Is Makinalari Insaat Sanayii Ithalat Ihracat Ticaret Pazarlama Limited Sirketi	F02C 1/08
(54) REEL	(72) ERKIN, Bahtiyar	F02C 3/34
(73) Max Co., Ltd.	(74) dr. A. Krebs	F02C 7/143
(72) KASAHARA, Akira	(31) 201707219	F23J 15/02
(74) J.M.H. Duyver lic.	(32) 16.05.2017	F23L 7/00
(31) 2016135746	(33) Turkey	F17C 9/04
2015145259	(47) 15.12.2021	F25J 3/04
(32) 08.07.2016	(51) B66F 9/12	F02C 6/04
22.07.2015	(11) EP3599215	B01D 53/00
(33) Japan	(11) EP19188169.7	B01D 53/26
Japan		(11) EP3438049
(47) 01.12.2021		(21) EP18188446.1
		(22) 03.09.2015
		(54) METHOD OF PRODUCTION OF LOW PRESSURE LIQUID CARBON DIOXIDE

FROM A POWER PRODUCTION SYSTEM	(32) 19.08.2016 02.06.2016	(21) EP18809725.7 (22) 25.05.2018
(73) 8 Rivers Capital, LLC	(33) Germany	(54) METHOD FOR PRODUCING GLASS PANEL UNIT
(74) J.M.H. Duyver lic.	Germany	(73) Panasonic Intellectual Property Management Co., Ltd.
(31) 201462047744 P	(47) 27.10.2021	(72) NONAKA, Masataka
(32) 09.09.2014	(51) C02F 1/467	URIU, Eiichi
(33) United States of America	C02F 101/30	ISHIKAWA, Haruhiko
(47) 03.11.2021	C02F 101/32	ABE, Hiroyuki
(51) C01F 7/16	(11) EP3640218	SHIMIZU, Takeshi
(11) EP3250510	(21) EP19212344.6	HASEGAWA, Kazuya
(21) EP16704068.2	(22) 14.07.2009	ISHIBASHI, Tasuku
(22) 05.01.2016	(54) PROCESS OF TREATMENT OF INDUSTRIAL WASTES	(74) ir. W.J.J.M. Kempes
(54) METHOD OF PRODUCING MAGNESIUM ALUMINATE SPINELS	(73) Industrie De Nora S.P.A.	(31) 2017108712
(73) Sasol (USA) Corporation	(72) GULLA, Andrea	(32) 31.05.2017
(72) HANN, Allison, L.	BENEDETTO, Mariachiara	(33) Japan
PEOPLES, Brian, C.	(74) ir. M.F.J.M. Ketelaars c.s.	(47) 05.01.2022
(74) ir. W.J.J.M. Kempes	(31) MI20081282	(51) C04B 28/02
(31) 201562108800 P	(32) 15.07.2008	C04B 20/10
(32) 28.01.2015	(33) Italy	(11) EP2507189
(33) United States of America	(47) 10.11.2021	(21) EP10801615.5
(47) 17.11.2021	(51) C02F 9/00	(22) 30.11.2010
(51) C01G 23/04	C02F 1/26	(54) AGENTS FOR INERTING CLAYS IN HYDRAULIC COMPOSITIONS
C01B 21/06	C02F 103/26	(73) Chryso
C01G 23/00	C02F 1/44	(72) LEISING, Frédéric
C04B 35/46	C02F 1/04	(74) ir. M.F.J.M. Ketelaars c.s.
C04B 38/00	(11) EP3724136	(31) 0958511
C01B 21/076	(21) EP18769173.8	(32) 30.11.2009
C04B 35/58	(22) 12.09.2018	(33) France
(11) EP2816012	(54) PROCESS FOR THE TREATMENT OF WASTEWATER FORMED DURING THE PRODUCTION OF MODIFIED STARCHES	(47) 27.10.2021
(21) EP13748592.6	(73) Gaisch, Franz	(51) C04B 28/14
(22) 18.02.2013	(72) Gaisch, Franz	C04B 28/02
(54) MACROPOROUS TITANIUM COMPOUND MONOLITH AND METHOD FOR MANUFACTURING SAME	(74) ir. J.C. Volmer c.s.	C04B 38/10
(73) Japan Science and Technology Agency	(31) 510282017	C04B 24/02
(72) HASEGAWA, George	(32) 12.12.2017	B01F 17/00
KITADA, Atsushi	(33) Austria	B01F 15/04
NAKANISHI, Kazuki	(47) 10.11.2021	B01F 3/04
KOBAYASHI, Yoji	(51) C03C 25/10	B28C 7/04
KAGEYAMA, Hiroshi	C03C 25/26	B28C 5/12
(74) J.M.H. Duyver lic.	C09J 189/00	C04B 103/48
(31) 2012032411	D04H 1/64	(11) EP3472120
(32) 17.02.2012	D04H 3/004	(21) EP17716723.6
(33) Japan	D04H 3/002	(22) 29.03.2017
(47) 15.12.2021	E04B 1/74	(54) METHOD FOR ON-LINE BLENDING OF FOAMING AGENT WITH FOAM MODIFIER FOR ADDITION TO CEMENTITIOUS SLURRIES
(51) C02F 1/04	(11) EP3455184	(73) United States Gypsum Company
C02F 3/30	(21) EP17722474.8	(72) VILINSKA, Annamaria
B61D 35/00	(22) 11.05.2017	LI, Alfred C.
C02F 1/66	(54) MINERAL WOOL PRODUCT	SONG, Weixin D.
C02F 1/16	(73) Rockwool International A/S	(74) ir. H.A. Witmans c.s.
C02F 1/52	(72) HJELMGAARD, Thomas	(31) 201715431444
C02F 1/467	(74) ir. W.J.J.M. Kempes	201615186336
C02F 1/32	(31) 16169641	201615186320
C02F 101/16	16169635	PCT/US2016/038885
C02F 1/02	16169638	(32) 13.02.2017
(11) EP3464188	(32) 13.05.2016	17.06.2016
(21) EP17725979.3	13.05.2016	17.06.2016
(22) 29.05.2017	13.05.2016	23.06.2016
(54) METHOD AND DEVICE FOR TREATING SANITARY WASTEWATER IN TRAINS	(33) European Patent Office (EPO)	(33) United States of America
(73) AKW A+V Protec Holding GmbH	European Patent Office (EPO)	United States of America
(72) SCHÄRTL, Josef	European Patent Office (EPO)	United States of America
SIESS, Daniel	(47) 08.12.2021	World Intellectual Property Office (WIPO)
(74) ir. M.F.J.M. Ketelaars c.s.	(51) C03C 27/06	(47) 08.12.2021
(31) 102016115393	E06B 3/677	(51) C07C 2/08
102016110191	E06B 3/66	
	(11) EP3632870	

C07C 2/36	(33) United States of America	(72) KUMARASINGHE, Ellalahewage,
B01J 19/18	(47) 01.12.2021	Sathyajith
B01J 8/10	(51) C07C 213/02	CORNEBISE, Mark
B08B 9/08	C07C 215/12	BENENATO, Kerry, E.
C08F 2/00	C07D 233/32	(74) ir. W.J.J.M. Kempes
(11) EP3122711	(11) EP3555043	(31) 201662393940 P
(21) EP15709357.6	(21) EP17811324.7	201662382740 P
(22) 02.02.2015	(22) 12.12.2017	201662333557 P
(54) SELF CLEANING REACTOR SYSTEM	(54) PROCESS FOR MANUFACTURING	201562266460 P
(73) Nova Chemicals (International) S.A.	HYDROXYETHYL ETHYLENE AMINES	201562253433 P
(72) ZORICAK, Peter	(73) Nouryon Chemicals International B.V.	201562252316 P
CLAVELLE, Eric	(72) TEN KATE, Antoon Jacob Berend	201562220091 P
BROWN, Stephen	VENEMAN, Rens	201562220085 P
(74) ir. M.F.J.M. Ketelaars c.s.	LAKE, Karl Fredrik	(32) 13.09.2016
(31) 2847814	EHLERS, Ina	01.09.2016
(32) 27.03.2014	EDVINSSON, Rolf Krister	09.05.2016
(33) Canada	KANTZER, Eike Nicolas	11.12.2015
(47) 10.11.2021	SARNING, Michael Bertil Einar	10.11.2015
(51) C07C 2/36	VAN DAM, Hendrik	06.11.2015
B01J 31/14	RAAIJMAKERS, Michiel Jozef Thomas	17.09.2015
C07C 11/02	(74) dr. T. Wittop Koning PhD	17.09.2015
C07C 11/107	(31) 16204357	(33) United States of America
C08F 110/02	(32) 15.12.2016	United States of America
(11) EP2847149	(33) European Patent Office (EPO)	United States of America
(21) EP13731896.0	(47) 27.10.2021	United States of America
(22) 08.05.2013	(51) C07C 227/16	United States of America
(54) OLIGOMERISATION OF OLEFINIC	C07C 229/48	United States of America
COMPOUNDS WITH REDUCED	C07C 227/38	United States of America
POLYMER FORMATION	(11) EP3636630	United States of America
(73) Sasol Technology (Proprietary) Limited	(21) EP18798982.7	(47) 05.01.2022
(72) HANTON, Martin John	(22) 02.05.2018	(51) C07C 237/04
EVANS, Stephen John	(54) PRODUCTION METHOD FOR 1 AMINO	C07D 211/60
SMITH, David Matthew	CYCLOPROPANE CARBOXYLIC ACID	C07D 233/06
GABRIELLI, William Fullard	NONHYDRATE	C07D 233/50
(74) dr. ir. G.J.C. Verdijck c.s.	(73) Sumitomo Chemical Company, Limited	A61P 29/00
(31) 201261644733 P	(72) OKAMOTO, Hiroaki	(11) EP3242869
(32) 09.05.2012	KAWAMURA, Mitsunobu	(21) EP15745569.2
(33) United States of America	(74) ir. H.A. Witmans c.s.	(22) 07.05.2015
(47) 12.01.2022	(31) 2017092614	(54) COMPOSITIONS AND METHODS FOR
(51) C07C 29/152	(32) 08.05.2017	THE TREATMENT OF INFLAMMATION
C07C 31/04	(33) Japan	AND PAIN
B01J 8/04	(47) 15.12.2021	(73) Cellixbio Private Limited
B01J 8/06	(51) C07C 229/12	(72) KANDULA, Mahesha
(11) EP3401299	C07D 233/72	(74) mr. ir. J. van Breda c.s.
(21) EP17400024.0	A61K 9/127	(31) 89CH2015
(22) 12.05.2017	C07C 271/20	(32) 06.01.2015
(54) REACTOR FOR CARRYING OUT	C07C 279/12	(33) India
EXOTHERMIC EQUILIBRIUM	C07C 279/28	(47) 27.10.2021
REACTIONS	C07C 279/32	(51) C07C 237/42
(73) L'AIR LIQUIDE, SOCIÉTÉ ANONYME	C07C 311/07	A01N 53/00
POUR L'ÉTUDE ET L'EXPLOITATION	C07C 311/49	(11) EP3526192
DES PROCÉDÉS GEORGES CLAUDE	C07C 321/14	(21) EP17797782.4
(74) ir. W.J.J.M. Kempes	C07D 249/04	(22) 09.10.2017
(47) 03.11.2021	C07D 263/20	(54) MOLECULES HAVING PESTICIDAL
(51) C07C 51/12	C07C 237/04	UTILITY, AND INTERMEDIATES,
C07C 51/44	C07C 237/06	COMPOSITIONS, AND PROCESSES,
C07C 53/08	C07D 265/33	RELATED THERETO
(11) EP3317244	C07D 271/06	(73) Dow AgroSciences LLC
(21) EP15781521.8	C07D 271/10	(72) GRAY, Kaitlyn
(22) 02.10.2015	C07D 207/27	DEMETER, David A.
(54) PROCESS FOR PRODUCING ACETIC	C07D 277/38	ECKELBARGER, Joseph D.
ACID	(11) EP3350157	TRULLINGER, Tony K.
(73) Celanese International Corporation	(21) EP16781895.4	MARTIN, Timothy P.
(72) LIU, Yaw-Hwa	(22) 16.09.2016	DAEUBLE, John F.
SCATES, Mark O.	(54) COMPOSITIONS AND COMPOSITIONS	HEEMSTRA, Ronald J.
SHAVER, Ronald D.	FOR INTRACELLULAR DELIVERY OF	HUNTER, Ricky
(31) 201514788928	THERAPEUTIC AGENTS	ROSS, Ronald
(32) 01.07.2015	(73) Modernatx, Inc.	VERMEULEN, Nicolaas

NOLAN, Alex	A61P 17/02	(73) Oxular Acquisitions Limited
(74) ir. H.A. Witmans c.s.	(11) EP3287443	(74) ir. W.J.J.M. Kempes
(31) 201662407092 P	(21) EP16783270.8	(31) 201402647
201662407118 P	(22) 22.04.2016	201322678
(32) 12.10.2016	(54) 6-MEMBERED HETEROCYCLIC	201305945
12.10.2016	DERIVATIVE AND PHARMACEUTICAL	(32) 14.02.2014
(33) United States of America	COMPOSITION COMPRISING SAME	20.12.2013
United States of America	(73) Shionogi & Co., Ltd	02.04.2013
(47) 17.11.2021	(72) TANAKA, Satoru	(33) United Kingdom
(51) C07C 263/10	OGATA, Yuki	United Kingdom
C07C 265/14	KAI, Hiroyuki	United Kingdom
B01J 8/02	KUROSE, Noriyuki	(47) 03.11.2021
C01B 32/80	HIRAI, Keiichiro	(51) C07D 295/10
C08G 64/24	FUJII, Yasuhiko	C07C 233/09
(11) EP3679014	OGAWA, Tomoyuki	C07C 233/65
(21) EP18759353.8	(74) ir. W.J.J.M. Kempes	C07D 213/63
(22) 03.09.2018	(31) 2015127214	A61K 31/495
(54) METHOD FOR CLEANING EQUIPMENT	2015089431	A61K 31/4412
CONVEYING PHOSGENE	(32) 25.06.2015	A61K 31/16
(73) Covestro Intellectual Property GmbH &	24.04.2015	A61K 8/42
Co. KG	(33) Japan	A61P 25/00
(72) PLATHEN, Peter	Japan	(11) EP3319950
BOEGEL, Udo	(47) 27.10.2021	(21) EP16750924.9
WOLF, Peter	(51) C07D 215/227	(22) 06.07.2016
MANZEL, Dirk	A61K 31/47	(54) VICINAL PRIMARY DIAMINES
(74) ir. W.J.J.M. Kempes	A61P 35/00	ASSOCIATED WITH METAL AND/OR
(31) 17189560	(11) EP2673262	FREE RADICAL CHELATION MOTIFS,
(32) 06.09.2017	(21) EP12704492.3	AND ACTIVE AGAINST CARBONYL
(33) European Patent Office (EPO)	(22) 10.02.2012	AND OXIDATIVE STRESS, AND USE
(47) 27.10.2021	(54) PROCESSES FOR PREPARING	THEREOF
(51) C07C 273/04	QUINOLINE COMPOUNDS AND	(73) INSERM - Institut National de la Santé et
C07C 273/14	PHARMACEUTICAL COMPOSITIONS	de la Recherche Médicale
B01D 5/00	CONTAINING SUCH COMPOUNDS	Université Amiens Picardie Jules Verne
B01D 19/00	(73) Exelixis, Inc.	Centre National de la Recherche
F28F 9/02	(74) ir. F.A. Geurts c.s.	Scientifique (CNRS)
F28F 21/08	(31) 201161441527 P	Centre Hospitalier Universitaire
F28D 7/06	201161441520 P	(74) J.M.H. Duyver lic.
(11) EP3700888	(32) 10.02.2011	(31) 1556366
(21) EP18812375.6	10.02.2011	(32) 06.07.2015
(22) 26.10.2018	(33) United States of America	(33) France
(54) HIGH PRESSURE CARBAMATE	United States of America	(47) 03.11.2021
CONDENSER	(47) 03.11.2021	(51) C07D 307/46
(73) Stamicarbon B.V.	(51) C07D 233/14	C07D 307/64
(72) POPA, Dorin	(11) EP3292106	(11) EP3371159
(74) ir. H.A. Witmans c.s.	(21) EP16720114.4	(21) EP16798600.9
(31) 17198990	(22) 03.05.2016	(22) 07.11.2016
(32) 27.10.2017	(54) PROCESS FOR THE PREPARATION	(54) METHODS OF FORMING AROMATIC
(33) European Patent Office (EPO)	OF AMPHIPHILIC IMIDAZOLIUM	CONTAINING COMPOUNDS
(47) 22.12.2021	COMPOUNDS	(73) Regents of the University of Minnesota
(51) C07D 213/69	(73) Bayer Animal Health GmbH	University of Delaware
A61K 31/4412	(72) BRÜNJES, Marco	(72) DAUENHAUER, Paul, J.
A61K 31/505	FORD, Mark James	LOBO, Raul, F.
A61K 31/506	(74) ir. A.R. Aalbers	VLACHOS, Dionisos, G.
A61K 31/53	(31) 201562156677 P	KOEHLE, Maura
A61K 31/5377	(32) 04.05.2015	JOSEPH, Kristeen
A61P 1/02	(33) United States of America	KRUMM, Christoph
A61P 1/04	(47) 27.10.2021	PARK, Dae, Sung
A61P 1/16	(51) C07D 239/47	(74) ir. H.A. Witmans c.s.
A61P 1/18	C07C 311/08	(31) 201562252200 P
A61P 3/10	A61K 31/505	(32) 06.11.2015
A61P 9/10	A61P 29/00	(33) United States of America
A61P 11/00	(11) EP2981526	(47) 27.10.2021
A61P 11/06	(21) EP14715106.2	(51) C07D 317/26
A61P 11/08	(22) 01.04.2014	(11) EP3728213
A61P 13/00	(54) INTERMEDIATES USEFUL IN THE	(21) EP18839943.0
A61P 13/08	PREPARATION OF NAPHTHYLUREA	(22) 18.12.2018
A61P 13/10	DERIVATIVES USEFUL AS KINASE	(54) PROCESS TO CONTINUOUSLY
A61P 13/12	INHIBITORS	PREPARE A CYCLIC CARBONATE

(73) New Green World B.V.	(32) 28.04.2016	(54) 3-ARYL-4-AMIDO-BICYCLIC
(72) LAURENTIUS, Sander	(33) China	[4,5,0]HYDROXAMIC ACIDS AS HDAC
VERGUNST, Frank	(47) 15.12.2021	INHIBITORS
(74) ir. M. Cramwinckel	(51) C07D 401/14	(73) Valo Health, Inc.
(31) 2020163	C07D 403/04	(72) MARTIN, Matthew W.
(32) 22.12.2017	C07D 413/04	ZHENG, Xiaozhang
(33) Netherlands	C07D 417/04	LIU, Cuixian
(47) 27.10.2021	C07D 205/08	LANCIA, David, Jr.
(51) C07D 401/04	C07D 207/26	ZABLOCKI, Mary-Margaret
C07C 45/46	(11) EP3447052	RUDNITSKAYA, Aleksandra
C07C 49/233	(21) EP18183579.4	DAVIS, Heather
C07C 57/58	(22) 21.01.2013	NG, Pui Yee
C07C 51/09	(54) METHODS OF PREPARING NEW IDH1	HAN, Bingsong
C07C 67/00	INHIBITORS	MILLAN, David S.
(11) EP3826997	(73) Les Laboratoires Servier SAS	THOMASON, Jennifer R.
(21) EP19742604.2	(72) POPOVICI-MULLER, Janeta	(74) ir. M.F.J.M. Ketelaars c.s.
(22) 23.07.2019	CUI, Dawei	(31) 201562205438 P
(54) PROCESS AND INTERMEDIATES FOR	LEMIEUX, Rene M.	201562110716 P
THE PREPARATION OF BILASTINE	CAI, Zhenwei	(32) 14.08.2015
(73) FAES FARMA, S.A.	ZHOU, Ding	02.02.2015
(72) GANZA GONZÁLEZ, Álvaro	TRAVINS, Jeremy	(33) United States of America
HERNÁNDEZ HERRERO, Gonzalo	(74) J.M.H. Duyver lic.	United States of America
GONZÁLEZ GARCÍA, Tania	(31) PCT/CN2012/070601	(47) 20.10.2021
MORÁN POLADURA, Pablo	(32) 19.01.2012	(51) C07D 403/12
GARCÍA DOMÍNGUEZ, Neftalí	(33) World Intellectual Property Office (WIPO)	C07D 413/14
TATO CERDEIRAS, Paloma	(47) 20.10.2021	C07D 401/10
(74) ir. A.R. Aalbers	(51) C07D 403/04	C07D 401/12
(31) 18382556	C07D 471/04	C07D 403/10
(32) 24.07.2018	A61K 31/437	C07D 405/10
(33) European Patent Office (EPO)	A61P 9/00	C07D 409/12
(47) 10.11.2021	A61P 37/00	C07D 413/10
(51) C07D 401/06	(11) EP3717471	C07D 417/10
A61K 31/454	(21) EP18811769.1	C07D 207/14
A61P 21/00	(22) 26.11.2018	C07F 9/02
A61P 25/04	(54) NOVEL COMPOUNDS AND	A61P 9/00
(11) EP3505515	PHARMACEUTICAL COMPOSITIONS	A61K 31/4025
(21) EP17843731.5	THEREOF FOR THE TREATMENT OF	A61K 31/4439
(22) 25.08.2017	DISEASES	A61K 31/506
(54) CRYSTALS OF CYCLIC AMINE	(73) Galapagos NV	(11) EP3762380
DERIVATIVE AND PHARMACEUTICAL	(72) ANNOOT, Denis, Maurice	(21) EP19711769.0
USE THEREOF	BUCHER, Denis	(22) 04.03.2019
(73) Toray Industries, Inc.	TEMAL-LAIB, Taoues	(54) PHENYLPYRROLIDINONE FORMYL
(72) IZUMIMOTO Naoki	ALVEY, Luke, Jonathan	PEPTIDE 2 RECEPTOR AGONISTS
BABA Yoko	JARY, Hélène, Marie	(73) Bristol-Myers Squibb Company
ISEKI Katsuhiko	TIRERA, Amynata	(72) SHIRUDE, Pravin Sudhakar
MORITA Yasuhiro	PEIXOTO, Christophe	BALIGAR, Vishweshwaraiah
TAKAHASHI Hirozumi	BONNATERRE, Florence, Marie-Emilie	WURTZ., Nicholas R.
(74) dr. W.A.H.M. Van Borm	DUTHION, Béranger	CHATTOPADHYAY, Amit Kumar
(31) 2016165437	DESROY, Nicolas	KICK, Ellen K.
(32) 26.08.2016	(74) dr. W.A.H.M. Van Borm	SESHADRI, Balaji
(33) Japan	(31) 201817343	(74) ir. H.A. Witmans c.s.
(47) 24.11.2021	201720101	(31) 201862638556 P
(51) C07D 401/14	(32) 25.10.2018	(32) 05.03.2018
C07D 401/12	02.12.2017	(33) United States of America
C07D 207/16	(33) United Kingdom	(47) 15.12.2021
C07D 207/08	United Kingdom	(51) C07D 403/12
(11) EP3447051	(47) 05.01.2022	C07D 417/12
(21) EP17788792.4	(51) C07D 403/06	A61K 31/4178
(22) 27.04.2017	C07D 413/06	A61K 31/4184
(54) METHOD FOR PREPARING TYROSINE	C07D 243/14	A61K 31/427
KINASE INHIBITOR AND DERIVATIVE	C07D 267/12	A61K 31/428
THEREOF	A61K 31/551	A61P 1/16
(73) Jiangsu Hengrui Medicine Co., Ltd.	A61K 31/553	A61P 3/10
(72) WU, Guaili	A61P 35/00	A61P 7/06
ZHANG, Quanliang	(11) EP3292116	A61P 9/00
CAO, Yongxing	(21) EP16704357.9	A61P 25/28
(74) dr. W.A.H.M. Van Borm	(22) 02.02.2016	A61P 25/32
(31) 201610274566		A61P 31/00

A61P 31/12	A61P 11/00	(47) 27.10.2021
A61P 35/00	A61P 29/00	(51) C07F 13/00
A61P 39/06	A61P 35/00	A61K 35/04
A61P 43/00	A61P 43/00	A61K 51/04
(11) EP2985284	(11) EP3546456	A61K 103/10
(21) EP14782759.6	(21) EP17873876.1	A61P 35/00
(22) 10.04.2014	(22) 27.11.2017	(11) EP3486249
(54) DICARBOXYLIC ACID BISAMIDE DERIVATIVES, USE THEREOF, PHARMACEUTICAL COMPOSITION BASED THEREON AND METHODS FOR PRODUCING DICARBOXYLIC ACID BISAMIDE DERIVATIVES	(54) CRYSTAL OF PYRIDO[3, 4-D]PYRIMIDINE DERIVATIVE OR SOLVATE THEREOF	(21) EP17815772.3
(73) Treamid Therapeutics GmbH	(73) Teijin Pharma Limited	(22) 21.06.2017
(74) ir. W.J.J.M. Kempes	(72) MIZUNO, Tsuyoshi	(54) 99MTC-EDDA/HYNIC-IP SMA AS A RADIOPHARMACEUTICAL FOR DETECTING THE OVEREXPRESSION OF PROSTATE-SPECIFIC MEMBRANE ANTIGEN
(31) 2013116822	MIYAMOTO, Hidetoshi	(73) Instituto Nacional de Investigaciones Nucleares
(32) 12.04.2013	YAJIMA, Naoki	(72) FERRO FLORES, Guillermina
(33) Russian Federation	UNOKI, Gen	OCAMPO GARCÍA, Blanca Eli
(47) 03.11.2021	MIYAZAWA, Yuki	LUNA GUTIÉRREZ, Myrna Alejandra
(51) C07D 417/14	(74) ir. A. Blokland c.s.	SANTOS CUEVAS, Clara Leticia
C07D 495/04	(31) 2016229973	JIMÉNEZ MANCILLA, Nallely Patricia
C07D 513/04	(32) 28.11.2016	AZORÍN VEGA, Erika Patricia
A61K 31/4427	(33) Japan	(74) dr. A. Ellens c.s.
A61K 31/4365	(47) 12.01.2022	(31) 2016008466
A61K 31/4439	(51) C07D 471/08	(32) 24.06.2016
A61P 25/00	A61K 31/485	(33) Mexico
(11) EP3426653	A61P 25/04	(47) 10.11.2021
(21) EP17715405.1	A61P 25/22	(51) C07F 15/04
(22) 10.03.2017	A61P 25/24	(11) EP2870167
(54) BICYCLIC COMPOUNDS FOR DIAGNOSIS AND THERAPY	A61P 43/00	(21) EP13797871.4
(73) AC Immune SA	(11) EP3272750	(22) 24.05.2013
(72) GABELLIERI, Emanuele	(21) EP16765061.3	(54) STABLE LIGAND MIXTURES AND PROCESSES FOR MAKING SAME
DARMENCY, Vincent	(22) 17.03.2016	(73) INVISTA Textiles (U.K.) Limited
MOLETTE, Jérôme	(54) MORPHINAN DERIVATIVE	(72) VOS, Thomas E.
(74) ir. F.A. Geurts c.s.	(73) Nippon Chemiphar Co., Ltd.	TENN, William J.
(31) 16199577	(74) dr. G. Visser-Luirink	AKI, Sudhir
16159878	(31) 2015054079	(74) J.M.H. Duyver lic.
(32) 18.11.2016	(32) 17.03.2015	(31) 201261654648 P
11.03.2016	(33) Japan	(32) 01.06.2012
(33) European Patent Office (EPO)	(47) 03.11.2021	(33) United States of America
European Patent Office (EPO)	(51) C07F 7/10	(47) 29.12.2021
(47) 15.12.2021	(11) EP3562829	(51) C07K 5/107
(51) C07D 471/04	(21) EP17811813.9	A61K 38/07
A61K 31/437	(22) 29.11.2017	A61P 25/04
A61P 35/00	(54) CATALYSIS OF DEHYDROCOUPLING REACTIONS BETWEEN AMINES AND SILANES	(11) EP3656782
(11) EP3445763	(73) NATA SEMICONDUCTOR MATERIALS CO., LTD.	(21) EP18835454.2
(21) EP17786237.2	(74) J.M.H. Duyver lic.	(22) 19.07.2018
(22) 18.04.2017	(31) 201662439239 P	(54) PEPTIDE AMIDE COMPOUND AND PREPARATION METHOD AND MEDICAL USE THEREOF
(54) NOVEL CRYSTALLINE SALT FORMS OF 3-(1,2,4-TRIAZOLO[4,3-A]PYRIDINE-3-YLETHYNYL)-4-METHYL-N-(4-((4-METHYLPYPERAZIN-1-YL)METHYL)-3-TRIFLUOROMETHYLPHENYL)BENZAMIDE FOR MEDICAL APPLICATION	(32) 27.12.2016	(73) Sichuan Haisco Pharmaceutical Co., Ltd.
(73) Limited Liability Company «Fusion Pharma»	(33) United States of America	(72) HUANG, Anbang
(72) CHILOV, Germes Grigorievich	(47) 03.11.2021	YAN, Pangke
TITOV, Ilya Yurievich	(51) C07F 7/28	YE, Fei
(74) ir. W.J.J.M. Kempes	B01J 31/14	WEI, Yonggang
(31) 2016114904	C08F 110/02	ZHANG, Chen
(32) 18.04.2016	C08F 4/64	WANG, Jianmin
(33) Russian Federation	B01J 31/18	ZHENG, Wei
(47) 10.11.2021	C08F 2/06	HUANG, Zhenggang
(51) C07D 471/04	C08F 2/14	HUANG, Longbin
A61K 31/519	C08F 4/659	(74) dr. ir. F.M. van Bouwelen
A61P 9/10	(11) EP3656779	(31) 201810014939
	(21) EP18207325.4	201710598408
	(22) 20.11.2018	(32) 11.01.2018
	(54) BORYLIMIDE CATALYSTS	21.07.2017
	(73) SCG Chemicals Co., Ltd.	(33) China
	(72) MOUNTFORD, Philip	China
	XIE, Bowen	
	CLOUGH, Benjamin A.	
	(74) dr. A. Krebs	

(47) 22.12.2021	(74) dr. A. Krebs	HEIM-RIETHER, Alexander
(51) C07K 7/08	(31) 33155010 P	VILLADSEN, Jesper Skodborg
C07K 14/47	(32) 05.05.2010	GIEHM, Lise
A61K 38/00	(33) United States of America	MUNCH, Henrik Kofoed
(11) EP3645550	(47) 15.12.2021	(74) ir. M.F.J.M. Ketelaars c.s.
(21) EP19727126.5	(51) C07K 14/37	(31) 16188024
(22) 05.04.2019	C12N 9/42	(32) 09.09.2016
(54) COMPSTATIN ANALOGS WITH INCREASED SOLUBILITY AND IMPROVED PHARMACOKINETIC PROPERTIES	(11) EP3353195	(33) European Patent Office (EPO)
(73) The Trustees Of The University Of Pennsylvania	(21) EP16848123.2	(47) 24.11.2021
(74) J.M.H. Duyver lic.	(22) 22.09.2016	(51) C07K 14/575
(31) 201862654055 P	(54) POLYPEPTIDES HAVING CELLOBIOHYDROLASE ACTIVITY AND POLYNUCLEOTIDES ENCODING SAME	C07K 14/72
(32) 06.04.2018	(73) Novozymes A/S	(11) EP3268383
(33) United States of America	(72) JIANG, Xianzhi	(21) EP16712267.0
(47) 03.11.2021	HAN, Bucong	(22) 11.03.2016
(51) C07K 14/005	KAI, Christine	(54) CYCLIC GALANIN-ANALOGS AND USES THEREOF
(11) EP3694868	TANG, Lan	(73) LanthioPep B.V.
(21) EP19782905.4	LIU, Ye	(72) KUIPERS, Anneke
(22) 12.09.2019	(74) ir. W.J.J.M. Kempes	(74) ir. H.A. Witmans c.s.
(54) METHOD FOR PRODUCING AN ANTITUMORAL ARENAVIRUS AS WELL AS ARENAVIRUS MUTANTS	(31) PCT/CN2015/090256	(31) 15159102
(73) Abalos Therapeutics GmbH	(32) 22.09.2015	(32) 13.03.2015
(74) mr. ir. J. van Breda c.s.	(33) World Intellectual Property Office (WIPO)	(33) European Patent Office (EPO)
(31) 102018215551	(47) 10.11.2021	(47) 01.12.2021
(32) 12.09.2018	(51) C07K 14/415	(51) C07K 14/81
(33) Germany	C12N 15/82	(11) EP3585808
(47) 03.11.2021	G01N 33/50	(21) EP18711233.9
(51) C07K 14/01	(11) EP3036328	(22) 23.02.2018
C12Q 1/68	(21) EP14837281.6	(54) MODIFIED SERPINS FOR THE TREATMENT OF BRADYKININ-MEDIATED DISEASE
C12N 9/14	(22) 21.08.2014	(73) Preclinics Gesellschaft für präklinische Forschung mbH
(11) EP3436471	(54) RUST RESISTANCE GENE	(72) MAAS, Coen
(21) EP17717030.5	(73) Commonwealth Scientific and Industrial Research Organisation	DE MAAT, Steven
(22) 28.03.2017	(72) LAGUDAH, Evans	(74) ir. W.J.J.M. Kempes
(54) RECOMBINASE MUTANTS	MOORE, John, Wallace	(31) 17157527
(73) Illumina, Inc.	(74) ir. H.A. Witmans c.s.	(32) 23.02.2017
(74) ir. J.D. de Zeeuw	(31) 2013903161	(33) European Patent Office (EPO)
(31) 201662314273 P	(32) 21.08.2013	(47) 10.11.2021
(32) 28.03.2016	(33) Australia	(51) C07K 16/06
(33) United States of America	(47) 27.10.2021	C07K 1/18
(47) 03.11.2021	(51) C07K 14/47	C07K 1/22
(51) C07K 14/31	A61K 38/17	(11) EP3301115
C07K 16/12	A61P 35/00	(21) EP17200909.4
A61K 39/395	(11) EP3430031	(22) 06.05.2014
A61K 38/16	(21) EP17710545.9	(54) CONTINUOUS MULTISTEP PROCESS FOR PURIFYING ANTIBODIES
A61K 38/17	(22) 15.03.2017	(73) SANOFI
A61P 17/00	(54) PEPTIDES WITH ANTI-CANCER ACTIVITY	(72) MOTHES, Benoît
A61K 39/00	(73) IDP Discovery Pharma, S.L.	HEMET, Céline
C12Q 1/02	(72) ESTEBAN MARTÍN, Santiago	LANDRIC-BURTIN, Laure
G01N 33/50	NEVOLA, Laura	DUTHE, Didier
G01N 33/569	(74) dr. ir. F.M. van Bouwelen	(74) ir. W.J.J.M. Kempes
G01N 33/68	(31) 16382114	(31) 13305593
A61P 17/02	(32) 15.03.2016	(32) 06.05.2013
A61P 29/00	(33) European Patent Office (EPO)	(33) European Patent Office (EPO)
A61P 31/04	(47) 20.10.2021	(47) 10.11.2021
(11) EP3444268	(51) C07K 14/575	(51) C07K 16/22
(21) EP18196549.2	A61K 38/22	C07K 16/46
(22) 05.05.2011	A61P 5/48	(11) EP3498732
(54) STAPHYLOCOCCUS AUREUS LEUKOCIDINS, THERAPEUTIC COMPOSITIONS, AND USES THEREOF	(11) EP3510044	(21) EP18205428.8
(73) New York University	(21) EP17761907.9	(22) 08.05.2012
(72) TORRES, Victor J	(22) 11.09.2017	(54) ANTI-NERVE GROWTH FACTOR ANTIBODIES AND METHODS OF PREPARING AND USING THE SAME
DUMONT, Ashley L	(54) AMYLIN ANALOGUES	(73) Zoetis Services LLC
	(73) Zealand Pharma A/S	(72) GEARING, David
	(72) MATHIESEN, Jesper Mosloff	(74) ir. M.F.J.M. Ketelaars c.s.
	FOSSATI, Giacomo	
	HAMPRECHT, Dieter Wolfgang	

(31) 201161531439 P 201161483488 P	(47) 20.10.2021	(22) 20.12.2018
(32) 06.09.2011 06.05.2011	(51) C07K 16/42	(54) UREA AND URETHANE GROUP CONTAINING ANTI-SETTLING RHEOLOGY CONTROL ADDITIVE
(33) United States of America United States of America	(11) EP3368579	(73) BYK-Chemie GmbH
(47) 17.11.2021	(21) EP16795192.0	(72) KLEIN, Agnetha
(51) C07K 16/28	(54) HINGE MODIFIED ANTIBODY FRAGMENTS AND METHODS OF MAKING	(72) KNAPPKE-BONGARTZ, Christiane VERLINDEN, Christoph
(11) EP3220927	(73) F. Hoffmann-La Roche AG	(72) NAGELSDIEK, René
(21) EP15860628.5	(72) KIM, Ingrid	(72) VON HAAREN, Jan BÜHNE, Sylvia
(22) 20.11.2015	(72) SPIESS, Christoph	(74) ir. W.J.J.M. Kempes
(54) SYSTEMS AND METHODS FOR ASSESSING MODULATORS OF IMMUNE CHECKPOINTS	(72) MENG, Yu-Ju, G.	(31) 17209556
(73) Promega Corporation	(74) KIM, Hok, Seon	(32) 21.12.2017
(72) CONG, Mei	(74) drs. C.M.A. Quintelier	(33) European Patent Office (EPO)
KARASSINA, Natasha	(31) 201662346905 P	(47) 08.12.2021
CHENG, Zhijie Jey	201562248792 P	(51) C08G 18/79
FAN, Frank	(32) 07.06.2016	C08G 18/10
GRAILER, Jamison	30.10.2015	C08G 18/24
(74) drs. C.M.A. Quintelier	(33) United States of America United States of America	C08G 18/32
(31) 201462082458 P	(47) 24.11.2021	C08G 18/42
(32) 20.11.2014	(51) C07K 19/00	C08L 75/14
(33) United States of America	C07K 14/245	(11) EP3679080
(47) 05.01.2022	C07K 1/16	(21) EP18759338.9
(51) C07K 16/28	C12P 21/00	(22) 03.09.2018
(11) EP3484921	(11) EP3197922	(54) MULTI COMPONENT DISPERSANT
(21) EP17746011.0	(21) EP15846454.5	(73) BYK-Chemie GmbH
(22) 14.07.2017	(22) 26.09.2015	(72) OKKEL, Andreas
(54) ANTI-IL-22R ANTIBODIES	(54) PROTEIN ISOLATION	TEUWSEN, Hans-Josef
(73) Argenx BVBA	(73) Idea Tree, LLC	BURGE, Matthew
(72) BLANCHETOT, Christophe Frederic Jerome	(72) LONGO, Michael	PRITSCHINS, Wolfgang
VAN DER WONING, Sebastian	(74) ir. M.F.J.M. Ketelaars c.s.	(74) ir. W.J.J.M. Kempes
DE HAARD, Johannes Joseph	(31) 201414497314	(31) 17189313
Wilhelmus	(32) 25.09.2014	(32) 05.09.2017
BERTELSEN, Malene	(33) United States of America	(33) European Patent Office (EPO)
SAUNDERS, Michael	(47) 08.12.2021	(47) 10.11.2021
URSØ, Birgitte	(51) C08G 18/08	(51) C08G 61/02
SKAK-NIELSEN, Tine	C08G 18/32	C08G 61/12
(74) ir. M.F.J.M. Ketelaars c.s.	C08G 18/38	C08G 65/48
(31) 201612337	C08G 18/66	C09D 165/02
(32) 15.07.2016	C08G 18/72	C09D 171/12
(33) United Kingdom	C08G 18/73	C08L 65/00
(47) 17.11.2021	C08G 18/10	C08L 71/00
(51) C07K 16/28	C08G 18/42	H01L 21/311
A61K 39/00	C09J 175/06	(11) EP2909253
A61P 35/02	(11) EP3740519	(21) EP13848929.9
(11) EP3423495	(21) EP19700418.7	(22) 21.10.2013
(21) EP17713469.9	(22) 15.01.2019	(54) CROSS-LINKED ORGANIC POLYMER COMPOSITIONS
(22) 28.02.2017	(54) ADHESIVES	(73) Delsper LP
(54) ANTIBODIES SPECIFIC TO HUMAN POLIOVIRUS RECEPTOR (PVR)	(73) Covestro Deutschland AG	(72) DRAKE, Kerry A.
(73) University Of Rijeka Faculty Of Medicine Yissum Research Development Company of The Hebrew University of Jerusalem Ltd.	(72) KRAUS, Harald	WILLIAMS, Shawn P.
(72) MANDELBOIM Ofer	(72) AVTOMONOV, Evgeny	NORDQUIST, Andrew F.
JONJIC, Stipan	ARNDT, Wolfgang	BOLAND, Rodger K.
TSUKERMAN, Pinchas	(74) ir. W.J.J.M. Kempes	BURGOYNE, William F. Jr.
KAYNAN, Noa S.	(31) 18152249	SONG, Le
(74) ir. M.B. Plaggenborg	(32) 18.01.2018	DAS, Sudipto
(31) 201662364924 P	(33) European Patent Office (EPO)	(74) ir. H.A. Witmans c.s.
201662301727 P	(47) 17.11.2021	(31) 201361833351 P
(32) 21.07.2016	(51) C08G 18/73	201261716800 P
01.03.2016	C08G 18/75	(32) 10.06.2013
(33) United States of America	C08G 18/76	22.10.2012
United States of America	C08G 18/80	(33) United States of America United States of America
	C08G 18/10	(47) 10.11.2021
	C08G 18/32	(51) C08G 64/14
	C08G 18/28	C08G 64/24
	C09D 7/43	(11) EP3719051
	(11) EP3728382	
	(21) EP18822371.3	

(21) EP19166945.6	(54) METHOD FOR PRODUCING THERMOSET POLYESTER FOAMS WITH PRE-OLIGOMERIZATION STEP	CROSS-LINKING CROSS-LINKABLE POLYMERS
(22) 03.04.2019		
(54) METHOD FOR THE PREPARATION OF THE POLYCARBONATE ADDITION TIME OF THE CHAIN BREAKING AGENT	(73) SAINT-GOBAIN ISOVER	(73) ARKEMA FRANCE
(73) Covestro Deutschland AG	(72) SAVONNET, Marie	(72) LU, Chao
(74) ir. W.J.J.M. Kempes	(72) SALOMON, Pierre	(74) ir. W.J.J.M. Kempes
(47) 03.11.2021	(74) ir. W.J.J.M. Kempes	(31) 1856935
(51) C08G 69/16	(31) 1762334	(32) 25.07.2018
C08G 69/36	(32) 18.12.2017	(33) France
(11) EP3469015	(33) France	(47) 24.11.2021
(21) EP18718279.5	(47) 24.11.2021	(51) C08L 1/02
(22) 27.03.2018	(51) C08J 11/16	C08L 1/28
(54) BRANCHED, TERMINATED POLYAMIDE COMPOSITIONS	(11) EP3400259	(11) EP3707201
(73) AdvanSix Resins & Chemicals LLC	(21) EP17707682.5	(21) EP18800877.5
(72) NELLIAPPAN, Veera	(22) 03.01.2017	(22) 05.11.2018
(74) ir. M.F.J.M. Ketelaars c.s.	(54) A PROCESS FOR TREATING PLASTIC WASTE	(54) CELLULOSE PROCESSING
(31) 201762481998 P	(73) Yissum Research Development Company of The Hebrew University of Jerusalem Ltd.	(73) Akzo Nobel Chemicals International B.V. Coöperatie Koninklijke Cosun U.A.
(32) 05.04.2017	(72) SASSON, Yoel	(72) DE WIT, Paulus Pieter
(33) United States of America	STOIN, Uri	THEEUWEN, Conrardus Hubertus Joseph
(47) 17.11.2021	(74) ir. W.J.J.M. Kempes	VAN INGEN, Gijbert Adriaan
(51) C08J 5/12	(31) 201662274802 P	STAPS, Franciscus Adrianus Ludovicus Maria
B32B 7/12	(32) 05.01.2016	(74) ir. M.F.J.M. Ketelaars c.s.
C09J 5/02	(33) United States of America	(31) 17200103
C09J 5/04	(47) 20.10.2021	(32) 06.11.2017
C09J 163/00	(51) C08K 3/22	(33) European Patent Office (EPO)
(11) EP3317329	C08K 3/30	(47) 15.12.2021
(21) EP16738089.8	C08L 27/18	(51) C08L 23/08
(22) 30.06.2016	C08K 3/013	C08L 23/12
(54) PROCESS FOR COLD BONDING RUBBER ON METAL SUBSTRATES	C08F 214/26	(11) EP3710530
(73) Henkel AG & Co. KGaA	(11) EP3423520	(21) EP18796455.6
(72) SALMOIRAGHI, Eleonora	(21) EP17709394.5	(22) 05.11.2018
BRUSA, Manuela	(22) 28.02.2017	(54) COMPOSITIONS OBTAINED FROM RECYCLED POLYOLEFINS
ZAFFARONI, Giorgio	(54) FLUOROPOLYMER COMPOSITION FOR COMPONENTS OF LIGHT EMITTING APPARATUSES	(73) Basell Poliolefine Italia S.r.l.
(74) ir. M.F.J.M. Ketelaars c.s.	(73) Solvay Specialty Polymers Italy S.p.A.	(72) CAVALIERI, Claudio
(31) 15174557	(74) ir. W.J.J.M. Kempes	DE PALO, Roberto
(32) 30.06.2015	(31) 16158794	(74) ir. M.F.J.M. Ketelaars c.s.
(33) European Patent Office (EPO)	(32) 04.03.2016	(31) 17201375
(47) 15.12.2021	(33) European Patent Office (EPO)	(32) 13.11.2017
(51) C08J 5/24	(47) 03.11.2021	(33) European Patent Office (EPO)
B29B 15/12	(51) C08K 3/34	(47) 22.12.2021
(11) EP2813538	C09D 133/02	(51) C08L 23/24
(21) EP14171169.7	C09D 133/26	C08L 23/30
(22) 04.06.2014	(11) EP3684855	C08L 91/06
(54) Method for making a prepreg and fiber-reinforced composite article	(21) EP18759079.9	(11) EP3802692
(73) Johns Manville	(22) 20.08.2018	(21) EP19726404.7
(72) Yohannes, Asheber	(54) COMPOSITE MATERIAL AND ITS USE	(22) 24.05.2019
Gleich, Klaus Friedrich	(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	(54) WAX COMPOSITION COMPRISING LINEAR HYDROCARBONS, BRANCHED HYDROCARBONS AND OXIDIZED HYDROCARBONS, AQUEOUS DISPERSION THEREOF, METHOD TO PRODUCE SUCH WAX COMPOSITION AND DISPERSION AND USE THEREOF AS CARNAUBA WAX REPLACEMENT
Asrar, Jawed	(74) ir. W.J.J.M. Kempes	
Zhang, Mingfu	(31) 102017121698	(73) Sasol Wax GmbH
(74) ir. F.A. Geurts c.s.	(32) 19.09.2017	(74) ir. W.J.J.M. Kempes
(31) 201313914964	(33) Germany	(31) 18174386
(32) 11.06.2013	(47) 03.11.2021	(32) 25.05.2018
(33) United States of America	(51) C08K 5/14	(33) European Patent Office (EPO)
(47) 29.12.2021	(11) EP3781623	(47) 03.11.2021
(51) C08J 9/02	(21) EP19762190.7	(51) C09B 69/10
C08J 9/30	(22) 25.07.2019	C09B 69/00
C08L 67/02	(54) COMPOSITION COMPRISING A MIXTURE OF ORGANIC PEROXIDES INCLUDING 1,3-1,4-BIS(TERT-BUTYLPEROXY-ISOPROPYL)BENZENE FOR	C07D 311/92
C08J 9/00		C07D 311/94
(11) EP3728427		
(21) EP18836838.5		
(22) 17.12.2018		

C09K 9/02	(31) 17207444	G03F 7/033
G02B 5/23	(32) 14.12.2017	(11) EP3710542
(11) EP3807258	(33) European Patent Office (EPO)	(21) EP18800959.1
(21) EP19730718.4	(47) 27.10.2021	(22) 15.11.2018
(22) 05.06.2019	(51) C09D 7/00	(54) BLOCK CO-POLYMER
(54) PHOTOCROMIC ANNELATED	(11) EP2952548	(73) BYK-Chemie GmbH
NAPHTHOPYRANE SYSTEMS WITH	(21) EP14746556.1	(72) FRANK, Albert
SPECIAL SUBSTITUENTS, FOR	(22) 31.01.2014	YONEHARA, Hiroshi
ATTAINING RAPID LIGHTENING	(54) TWO-PACK-TYPE PRIMER, PRIMER	OKKEL, Andreas
SPEEDS	COATING FILM, LAMINATED STAIN-	(74) ir. W.J.J.M. Kempes
(73) Rodenstock GmbH	PROOF COATING FILM, AND METHOD	(31) 17201870
(72) WEIGAND, Udo	FOR IMPARTING STAIN-PROOF	(32) 15.11.2017
ROHLFING, Yven	PROPERTY TO BASE	(33) European Patent Office (EPO)
ZINNER, Herbert	(73) Chugoku Marine Paints, Ltd.	(47) 05.01.2022
(74) dr. W.A.H.M. Van Borm	(72) NIIMOTO, Jyunji	(51) C09F 1/02
(31) 102018004790	(74) dr. ir. F.M. van Bouwelen	(11) EP3741821
(32) 14.06.2018	(31) 2013019513	(21) EP20176066.7
(33) Germany	(32) 04.02.2013	(22) 22.05.2020
(47) 20.10.2021	(33) Japan	(54) DEODORIZED ROSIN ESTER AND
(51) C09D 5/02	(47) 12.01.2022	METHODS FOR MAKING
C09D 7/40	(51) C09D 11/101	(73) Kraton Polymers Research B.V.
C09D 133/02	C09D 11/107	(72) DING, Ruidong
C09D 133/08	C09D 11/037	TIAN, Jason
C09D 133/10	B41M 1/06	REITER, Chad
B65D 23/02	(11) EP3381988	(74) ir. W.J.J.M. Kempes
B65D 25/14	(21) EP16868606.1	(31) 201962851373 P
B65D 51/00	(22) 24.11.2016	(32) 22.05.2019
B05D 1/02	(54) LITHOGRAPHIC INK	(33) United States of America
B05D 7/22	(73) Toray Industries, Inc.	(47) 05.01.2022
(11) EP3529310	(72) TSUJI, Yuichi	(51) C09K 21/14
(21) EP17867591.4	MURASE, Seiichiro	C08G 79/02
(22) 19.10.2017	INOUE, Takejiro	C08K 13/02
(54) ACRYLIC POLYMERS AND	(74) dr. W.A.H.M. Van Borm	(11) EP3321343
COMPOSITIONS CONTAINING SUCH	(31) 2016104088	(21) EP17202455.6
POLYMERS	2016048046	(22) 05.08.2011
(73) Swinc LLC	2015229340	(54) FLAME PROTECTION AGENT
(72) O'BRIEN, Robert M.	(32) 25.05.2016	COMPOSITIONS CONTAINING
NESS, Jason S.	11.03.2016	TRIAZINE INTERCALATED METAL
GIBANEL, Sebastien	25.11.2015	PHOSPHATES
DESOUSA, Joseph	(33) Japan	(73) J.M. Huber Corporation
HUSSAIN, Nusrah	Japan	(72) KÖSTLER, Hans-Günter
BRAILLON, Marie	Japan	WEHNER, Wolfgang
SAWANT, Kailas	(47) 05.01.2022	DAVE, Trupti
PUAUD, Samuel	(51) C09D 103/02	(74) ir. J.D. de Zeeuw
(74) ir. W.J.J.M. Kempes	C09J 103/02	(31) 102010035103
(31) 201662410255 P	C08L 3/02	(32) 23.08.2010
(32) 19.10.2016	(11) EP3146006	(33) Germany
(33) United States of America	(21) EP15727516.5	(47) 20.10.2021
(47) 08.12.2021	(22) 20.05.2015	(51) C10G 2/00
(51) C09D 5/16	(54) COATING COMPOSITION	C01B 3/34
(11) EP3724277	(73) Cargill, Incorporated	C01B 3/48
(21) EP18738339.3	(72) SIVASLIGIL, Dogan Sahin	C10G 45/58
(22) 13.07.2018	MAKARAINEN, Timo	C10G 47/00
(54) SUBSTRATE COATED WITH A MULTI-	VOIGT, Andreas	C10G 67/14
LAYER COATING SYSTEM AND A	(74) ir. W.J.J.M. Kempes	C01B 3/52
PROCESS FOR CONTROLLING	(31) 14193647	C10K 1/18
AQUATIC BIOFOULING ON MAN-MADE	14169297	C10G 67/04
OBJECTS USING SUCH MULTI-LAYER	(32) 18.11.2014	C10G 21/14
COATING SYSTEM	21.05.2014	(11) EP2875097
(73) Akzo Nobel Coatings International B.V.	(33) European Patent Office (EPO)	(21) EP13739447.4
(72) HAMILTON, Lindsay	European Patent Office (EPO)	(22) 22.07.2013
SINCLAIR-DAY, John David	(47) 05.01.2022	(54) HYDROCARBON RECOVERY FROM
PRICE, Clayton	(51) C09D 153/00	FISCHER-TROPSCH OFF-GAS
PARRY, Alison Louise	C09D 5/02	(73) Shell Internationale Research
DUNFORD, Graeme	G03F 7/00	Maatschappij B.V.
CAIRNS, Cait Marie	G02B 5/22	(72) LEONARDI, Andres Eduardo
REYNOLDS, Kevin John	C08F 297/02	ROTS, Pascal Edzo Armin
(74) ir. W.J.J.M. Kempes	C09D 7/45	KUSTOSZ, Andreas

RAMONE, Lionel Paul	(22) 22.06.2017	(22) 21.05.2014
BOERRIGTER, Harold	(54) GAS HYDRATE INHIBITORS	(54) PHOSPHATE SUBSTITUTES FOR
BALK, Wilhelmus Hendrik Johannes	(73) The Lubrizol Corporation	ALKALINE MACHINE DETERGENTS
(74) dr. W.A.H.M. Van Borm	(72) CHANG, Zen-Yu	(73) Budich International GmbH
(31) 12177318	MASTRANGELO, Antonio	(72) BUDICH, Meinrad
(32) 20.07.2012	(74) dr. W.A.H.M. Van Borm	(74) J.M.H. Duyver lic.
(33) European Patent Office (EPO)	(31) 201662353174 P	(31) 102014100234
(47) 29.12.2021	(32) 22.06.2016	(32) 10.01.2014
(51) C10G 29/20	(33) United States of America	(33) Germany
C10G 21/20	(47) 22.12.2021	(47) 17.11.2021
(11) EP3519535	(51) C11B 1/02	(51) C11D 3/395
(21) EP17791199.7	C12P 7/64	C11D 3/04
(22) 27.09.2017	H01B 3/22	A61L 2/00
(54) METHOD OF TREATING HYDROGEN	H01F 27/12	C11D 17/04
SULFIDE IN A STREAM	C12N 9/16	C11D 3/48
(73) ChampionX USA Inc.	(11) EP3521408	D21H 21/36
(72) MUKKAMALA, Ravindranath	(21) EP18212337.2	(11) EP3469051
HARRINGTON, Ryan Matthew	(22) 03.11.2011	(21) EP17733987.6
ANANTANENI, Prakasa Rao	(54) GENETICALLY-ENGINEERED	(22) 09.06.2017
TARVERDI, David	CHLORELLA OR PROTOTHECA	(54) CHLORINE DIOXIDE DISINFECTING
KARAS, Lawrence J.	MICROBE AND OIL PRODUCED	CLOTH
DE, Subhasis	THEREFROM	(73) Alethia Life Sciences AG
(74) dr. A. Krebs	(73) Corbion Biotech, Inc.	(72) OBERWALDER, Sebastian
(31) 201662402544 P	(72) FRANKLIN, Scott	(74) ir. M.F.J.M. Ketelaars c.s.
(32) 30.09.2016	WEE, Janice	(31) 102016007081
(33) United States of America	LU, Wenhua	(32) 10.06.2016
(47) 24.11.2021	ZHAO, Xinhua	(33) Germany
(51) C10G 45/04	RODRIGUEZ, Felipe Arana	(47) 27.10.2021
B01J 8/04	RUDENKO, George	(51) C11D 7/36
B01J 35/10	RAKITSKY, Walter	(11) EP3519896
B01J 23/85	(74) ir. M.F.J.M. Ketelaars c.s.	(21) EP17735370.3
C10G 65/04	(31) 40990210 P	(22) 20.01.2017
B01J 23/883	201161438966 P	(54) SULFOXIDE/GLYCOL ETHER
B01J 37/02	201161522231 P	BASED SOLVENTS FOR USE IN THE
(11) EP3722394	201161546932 P	ELECTRONICS INDUSTRY
(21) EP20168048.5	(32) 03.11.2010	(73) Dow Global Technologies LLC
(22) 03.04.2020	02.02.2011	(72) KIM, Eung Kyu
(54) METHOD FOR HYDROTREATMENT OF	10.08.2011	REN, Hua
A NAPHTHA	13.10.2011	JIANG, Xin
(73) AXENS	(33) United States of America	MU, Jianhai
(74) ir. W.J.J.M. Kempes	United States of America	OHBA, Kaoru
(31) 1903928	United States of America	JIANG, Qi
(32) 12.04.2019	United States of America	(74) ir. J.D. de Zeeuw
(33) France	(47) 22.12.2021	(31) PCT/CN2016/100460
(47) 03.11.2021	(51) C11D 3/00	(32) 28.09.2016
(51) C10L 1/04	C11D 3/50	(33) World Intellectual Property Office (WIPO)
C10L 1/10	C11D 3/20	(47) 17.11.2021
C10G 45/02	C11D 1/835	(51) C12M 1/00
C10L 1/08	C11D 1/62	C12M 1/32
(11) EP3728523	C11D 1/72	C12Q 1/02
(21) EP18816363.8	(11) EP3507353	G01N 1/02
(22) 16.11.2018	(21) EP17761690.1	G01N 1/04
(54) LOW SULFUR MARINE FUEL	(22) 23.08.2017	B01L 3/02
COMPOSITIONS	(54) FABRIC ENHANCER COMPOSITION	B01L 3/00
(73) ExxonMobil Research and Engineering	(73) The Procter & Gamble Company	(11) EP3521411
Company	(72) SAVEYN, Pieter, Jan Maria	(21) EP17855928.2
(72) RUBIN-PITEL, Sheryl, B.	DECLERCQ, Marc, Johan	(22) 21.09.2017
FRUCHEY, Erin, R.	VAES, Dries	(54) METHOD AND SYSTEM FOR
KAR, Kenneth, C., H.	(31) 201662381729 P	RECOVERING FINE PARTICLES
BERKHOUS, Scott, K.	(32) 31.08.2016	(73) Tokyo Ohka Kogyo Co., Ltd.
(74) J.M.H. Duyver lic.	(33) United States of America	(72) OHSAKA Takashi
(31) 201762607354 P	(47) 29.12.2021	MUROTA Atsushi
(32) 19.12.2017	(51) C11D 3/20	SUZUKI Yasuo
(33) United States of America	C11D 3/33	(74) J.M.H. Duyver lic.
(47) 15.12.2021	C11D 3/37	(31) 2016191451
(51) C10L 3/10	C11D 11/00	(32) 29.09.2016
(11) EP3475396	(11) EP3092294	(33) Japan
(21) EP17737945.0	(21) EP14726338.8	(47) 22.12.2021

(51) C12M 1/107 C12M 1/00 C12M 1/02 C12M 1/33	(73) Corbion Biotech, Inc.	(33) United States of America
(11) EP3784769	(72) VILLARI, Jeffrey	(47) 27.10.2021
(21) EP19790438.6	REGENTIN, Rika	(51) C12N 5/10
(22) 19.09.2019	YUAN, Dawei	C12N 15/56
(54) DEVICE AND METHOD FOR OPTIMIZING A BIOGAS SYSTEM	(33) United States of America	C12N 15/85
(73) Maier, Gregor	WEE, Janice Lau	C12P 21/00
Maier, Clemens	LU, Wenhua	C07K 16/00
(72) Maier, Clemens	(74) ir. M.F.J.M. Ketelaars c.s.	C07K 16/28
Maier, Gregor	(31) 201562141167 P	C07K 16/42
(74) dr. W.A.H.M. Van Borm	(32) 31.03.2015	C12N 9/24
(31) 102018123058	(33) United States of America	(11) EP3119882
(32) 19.09.2018	(47) 22.12.2021	(21) EP15770138.4
(33) Germany	(51) C12N 5/00	(22) 17.03.2015
(47) 10.11.2021	(11) EP3255141	(54) METHODS FOR PRODUCING RECOMBINANT GLYCOPROTEINS WITH MODIFIED GLYCOSYLATION
(51) C12N 1/12	(21) EP17179340.9	(73) Oneness Biotech Co., Ltd.
C02F 3/32	(22) 11.07.2007	(72) CHEN, Hung-Chi
B01D 59/36	(54) PRODUCTION OF ANTIBODIES WITH IMPROVED GLYCOSYLATION PATTERN	CHEN, Nien-Yi
C22B 3/18	(73) Wyeth LLC	WU, Che-Haorz
C22B 60/02	(72) Lasko, Daniel R.	TOWN, Winston
G21F 9/18	Koza, Stephan M.	(74) ir. W.J.J.M. Kempes
C12R 1/89	(74) ir. M.F.J.M. Ketelaars c.s.	(31) 201461954337 P
(11) EP3608396	(31) 830658 P	(32) 17.03.2014
(21) EP18774447.9	(32) 13.07.2006	(33) United States of America
(22) 21.03.2018	(33) United States of America	(47) 17.11.2021
(54) MICROORGANISM OF THE SPECIES TETRASELMIS MEDITERRANEA (TMMRU) AND USE THEREOF FOR THE PRODUCTION OF ENRICHED URANIUM	(47) 01.12.2021	(51) C12N 9/26
(73) Universidad Complutense De Madrid	(51) C12N 5/00	(11) EP2859097
(72) LOPEZ RODAS, Victoria	(11) EP3372671	(21) EP13729864.2
COSTAS COSTAS, Eduardo	(21) EP17160053.9	(22) 03.06.2013
GARCIA BALBOA, Camino	(22) 09.03.2017	(54) ALPHA-AMYLASE VARIANTS DERIVED FROM THE ALPHA AMYLASE OF CYTOPHAGA SP. AMYLASE(I(CSPAMY2).
ROMERO LOPEZ, Julia	(54) CULTURE MEDIUM COMPRISING OLIGOPEPTIDES	(73) Danisco US Inc.
(74) ir. F.A. Geurts c.s.	(73) Evonik Operations GmbH	(74) ir. H.A. Witmans c.s.
(31) 201700306	(74) ir. W.J.J.M. Kempes	(31) 201261657501 P
(32) 29.03.2017	(47) 03.11.2021	(32) 08.06.2012
(33) Spain	(51) C12N 5/0784	(33) United States of America
(47) 27.10.2021	C12N 15/85	(47) 03.11.2021
(51) C12N 1/20	(11) EP3535387	(51) C12N 9/52
A61K 35/74	(21) EP17800759.7	(11) EP3584317
C12R 1/01	(22) 07.11.2017	(21) EP19174182.6
(11) EP3443071	(54) AN ENGINEERED MULTI-COMPONENT SYSTEM FOR IDENTIFICATION AND CHARACTERISATION OF T-CELL RECEPTORS AND T-CELL ANTIGENS	(22) 10.01.2013
(21) EP17716253.4	(73) Genovie AB	(54) CLOSTRIDIUM HISTOLYTICUM ENZYME
(22) 11.04.2017	(72) HILL, Ryan Edward	(73) Endo Global Ventures
(54) NOVEL BACTERIAL SPECIES	JARVIS, Reagan Micheal	(72) Herber, Wayne
(73) Wageningen Universiteit	PASE, Luke Benjamin	(74) ir. M.F.J.M. Ketelaars c.s.
(72) BELZER, Clara	(74) ir. W.J.J.M. Kempes	(31) 201261585909 P
DE VOS, Willem Meindert	(31) PA201670872	(32) 12.01.2012
(74) dr. W.A.H.M. Van Borm	(32) 07.11.2016	(33) United States of America
(31) 16164743	(33) Denmark	(47) 24.11.2021
(32) 11.04.2016	(47) 12.01.2022	(51) C12N 15/09
(33) European Patent Office (EPO)	(51) C12N 5/079	A61K 39/395
(47) 05.01.2022	C12N 5/00	A61P 35/00
(51) C12N 1/36	(11) EP3347457	C07K 16/28
C12N 9/24	(21) EP16775018.1	C07K 19/00
C12P 7/64	(22) 07.09.2016	C07K 16/30
C12R 1/89	(54) MACS-BASED PURIFICATION OF STEM CELL-DERIVED RETINAL PIGMENT EPITHELIUM	(11) EP3336185
(11) EP3447124	(73) FUJIFILM Cellular Dynamics, Inc.	(21) EP16835194.8
(21) EP18199852.7	(72) STANKEWICZ, Casey	(22) 09.08.2016
(22) 30.03.2016	MEYER, Nathan	(54) ANTIBODY
(54) MICROALGAE ADAPTED FOR HETEROTROPHIC CULTURE CONDITIONS	CHASE, Lucas	(73) Osaka University
	(74) ir. M.F.J.M. Ketelaars c.s.	(72) HOSEN, Naoki
	(31) 201562215272 P	KUMANOGOH, Atsushi
	(32) 08.09.2015	SUGIYAMA, Haruo
		(74) dr. ir. F.M. van Bouwelen

(31) 2015158414	(51) C12N 15/10	SCHMIDT, Manuel
(32) 10.08.2015	B03C 1/00	KAPP, Kerstin
(33) Japan	C07K 1/22	(74) ir. M.F.J.M. Ketelaars c.s.
(47) 22.12.2021	C12N 1/00	(31) 92821
(51) C12N 15/09	C12N 5/00	(32) 09.09.2015
C12N 1/21	G01N 33/53	(33) Luxembourg
C12N 9/88	B03C 1/033	(47) 15.12.2021
C12P 7/42	B03C 1/28	(51) C12N 15/113
(11) EP3147360	C12N 13/00	C12N 15/82
(21) EP15793452.2	(11) EP3452590	(11) EP3256589
(22) 13.05.2015	(21) EP17792345.5	(21) EP16740770.9
(54) CORYNEFORM BACTERIUM	(22) 05.05.2017	(22) 21.01.2016
TRANSFORMANT HAVING HIGHLY	(54) PLATE MAGNET	(54) COMPOSITIONS AND METHODS FOR
ACTIVE MUTANT ENZYME HIGHLY	(73) Stemcell Technologies Inc.	CONTROLLING LEPTINOTARSA
EXPRESSED THEREIN, AND	(72) GLAWDEL, Tom	(73) Monsanto Technology LLC
PROCESS FOR PRODUCING 4-	JERVIS, Eric	(72) EADS, Brian Donovan
HYDROXYBENZOIC ACID OR SALT	(74) dr. A. Krebs	BEATTIE, Jodi Lynn
THEREOF USING THE SAME	(31) 201662332578 P	CRAWFORD, Michael John
(73) Green Chemicals Co., Ltd.	(32) 06.05.2016	KAPOOR, Mahak
(72) HIRAGA, Kazumi	(33) United States of America	TAYLOR, Christina Marie
YUKAWA, Hideaki	(47) 29.12.2021	FLAGEL, Lex Evan
HASHIMOTO, Ryoma	(51) C12N 15/10	(74) ir. W.J.J.M. Kempes
SUDA, Masako	C12Q 1/68	(31) 201562106710 P
INUI, Masayuki	C12Q 1/6855	(32) 22.01.2015
(74) ir. M.F.J.M. Ketelaars c.s.	(11) EP3512947	(33) United States of America
(31) 2014100875	(21) EP17851671.2	(47) 22.12.2021
(32) 14.05.2014	(22) 15.09.2017	(51) C12N 15/63
(33) Japan	(54) METHODS OF NUCLEIC ACID SAMPLE	(11) EP3526330
(47) 17.11.2021	PREPARATION	(21) EP17790710.2
(51) C12N 15/09	(73) ArcherDX, LLC	(22) 11.10.2017
C12P 21/08	(72) CULVER, Brady	(54) TRIPLE VECTOR FOR EXPRESSING
C07K 16/28	KUDLOW, Brian	ANTIBODY MOLECULES IN FULL
C12N 5/00	STAHL, Joshua	THERAPEUTIC FORMAT
A61K 39/395	MYERS, Jason	(73) argenx BVBA
A61K 45/06	(74) ir. W.J.J.M. Kempes	Fairjourney Biologics
A61P 35/00	(31) 201662395339 P	(72) PAJUELO, Maria Gonzalez
A61P 37/04	(32) 15.09.2016	DE HAARD, Johannes Joseph
A61P 43/00	(33) United States of America	Wilhelmus
(11) EP3334824	(47) 20.10.2021	(74) ir. M.F.J.M. Ketelaars c.s.
(21) EP16834640.1	(51) C12N 15/11	(31) 201617270
(22) 09.08.2016	C12N 9/16	(32) 11.10.2016
(54) PD-1 ANTIBODIES	(11) EP3289076	(33) United Kingdom
(73) Innovent Biologics (Suzhou) Co., Ltd.	(21) EP16789905.3	(47) 29.12.2021
(72) YU, Dechao, M.	(22) 02.05.2016	(51) C12N 15/67
BARUAH, Hemanta	(54) PRECISE DELETION OF	C07H 21/02
TSUN, Andy	CHROMOSOMAL SEQUENCES IN	A61K 31/7115
CHEN, Cheng	VIVO	(11) EP3350333
LIU, Xiaolin	(73) Precision Biosciences, Inc.	(21) EP16847531.7
(74) ir. W.J.J.M. Kempes	(72) JANTZ, Derek	(22) 19.09.2016
(31) PCT/CN2015/086494	SMITH, James, Jefferson	(54) POLYNUCLEOTIDES CONTAINING A
(32) 10.08.2015	BARTSEVICH, Victor	STABILIZING TAIL REGION
(33) World Intellectual Property Office (WIPO)	(74) dr. W.A.H.M. Van Borm	(73) ModernaTX, Inc.
(47) 17.11.2021	(31) 201562155838 P	(72) STANTON, Matthew
(51) C12N 15/10	(32) 01.05.2015	BUTORA, Gabor
(11) EP3555286	(33) United States of America	FRALEY, Andrew, W.
(21) EP17817733.3	(47) 17.11.2021	MIRACCO, Edward, John
(22) 14.12.2017	(51) C12N 15/11	RHODEN-SMITH, Amy
(54) METHOD FOR ISOLATING HIGHLY	C12N 15/117	NELSON, Jennifer
PURE NUCLEIC ACID WITH	C07K 16/18	(74) ir. W.J.J.M. Kempes
MAGNETIC PARTICLES	(11) EP3347468	(31) 201662279466 P
(73) QIAGEN GmbH	(21) EP16767192.4	201562220050 P
(72) STROEDER, Jasper	(22) 09.09.2016	(32) 15.01.2016
HOCHSTEIN, Corinna	(54) COMBINATION COMPRISING	17.09.2015
(74) ir. W.J.J.M. Kempes	IMMUNOSTIMULATORY	(33) United States of America
(31) 16204386	OLIGONUCLEOTIDES	United States of America
(32) 15.12.2016	(73) Gilead Sciences, Inc.	(47) 27.10.2021
(33) European Patent Office (EPO)	(72) ZURLO, Alfredo	(51) C12N 15/81
(47) 10.11.2021	SCHROFF, Matthias	C07K 14/395

C12N 9/10	(31) 201562220997 P	(47) 10.11.2021
C12N 9/90	201562114544 P	(51) C12P 19/56
C12N 15/82	(32) 19.09.2015	A23L 27/30
C12P 15/00	10.02.2015	A61P 3/10
A23L 27/30	(33) United States of America	C07H 15/24
(11) EP3387136	United States of America	(11) EP2852296
(21) EP16822120.8	(47) 20.10.2021	(21) EP13794215.7
(22) 09.12.2016	(51) C12N 15/90	(22) 12.03.2013
(54) PRODUCTION OF STEVIOL GLYCOSIDES IN RECOMBINANT HOSTS	(11) EP3242949	(54) PROCESS FOR PRODUCING A HIGH- PURITY STEVIOL GLYCOSIDE
(73) Evolva SA	(21) EP16700158.5	(73) PureCircle SDN BHD
(72) HOUGHTON-LARSEN, Jens	(22) 06.01.2016	(72) JARRIN, Cyrille
DYEKJAER, Jane Dannow	(54) A CRISPR-CAS SYSTEM FOR A YEAST HOST CELL	PRAKASH, Indra
DOUCHIN, Veronique	(73) DSM IP Assets B.V.	PRAKASH CHATURVEDULA, Venkata Sai
(74) J. Hoekstra	(74) ir. W.J.J.M. Kempes	ter HALLE, Rob
(31) 201562265895 P	(31) 201562177497 P	ROBE, Patrick
(32) 10.12.2015	15150148	MARKOSYAN, Avetik
(33) United States of America	15150134	(74) ir. W.J.J.M. Kempes
(47) 05.01.2022	(32) 16.03.2015	(31) 201261649978 P
(51) C12N 15/86	06.01.2015	(32) 22.05.2012
(11) EP3402889	06.01.2015	(33) United States of America
(21) EP17701908.0	(33) United States of America	(47) 15.12.2021
(22) 11.01.2017	European Patent Office (EPO)	(51) C12P 21/02
(54) COMBINING ADENOVIRUS AND CHEMOTHERAPEUTIC AGENTS FOR TREATING CANCER	European Patent Office (EPO)	C12N 15/65
(73) Targovax Oy	(47) 03.11.2021	(11) EP3172334
(72) VASSILEV, Lotta	(51) C12P 7/06	(21) EP15741223.0
RANKI, Tuuli	C12P 19/00	(22) 24.07.2015
VUOLANTO, Antti	(11) EP2562262	(54) IMPROVED HOST CELL FOR PRODUCING PROTEINS
HAAVISTO, Elina	(21) EP12192280.1	(73) R.P. Scherer Technologies, LLC
KURYK, Lukasz	(22) 10.02.2009	(72) CAVRENNE, Jonathan
PESONEN, Sari	(54) Method of production of ethanol from two-three different starting materials	MICHEL, Benjamin
(74) ir. A.R. Aalbers	(73) Sekab E-Technology AB	SZPIRER, Cédric
(31) 20165026	(72) Gredgård Öhgren , Karin	(74) dr. A. Krebs
(32) 15.01.2016	Zacchi, Guido	(31) 14182341
(33) Finland	(74) ir. M.F.J.M. Ketelaars c.s.	14178656
(47) 27.10.2021	(31) 0800304	(32) 26.08.2014
(51) C12N 15/86	(32) 11.02.2008	25.07.2014
A61K 35/76	(33) Sweden	(33) European Patent Office (EPO)
C12N 15/87	(47) 20.10.2021	European Patent Office (EPO)
C12N 9/78	(51) C12P 13/10	(47) 10.11.2021
(11) EP3562946	(11) EP2553113	(51) C12Q 1/68
(21) EP17826228.3	(21) EP11710196.4	C12P 19/34
(22) 21.12.2017	(22) 24.03.2011	C12Q 1/6844
(54) ONCOLYTIC VIRUSES AND THERAPEUTIC MOLECULES	(54) PROCESS FOR PRODUCING L- ORNITHINE EMPLOYING LYSE OVEREXPRESSING BACTERIA	C12Q 1/6851
(73) Transgene SA	(73) Evonik Operations GmbH	G01N 21/64
(72) FOLOPPE, Johann	(74) ir. W.J.J.M. Kempes	(11) EP3202918
ERBS, Philippe	(31) 102010003419	(21) EP17153784.8
(74) ir. H.A. Witmans c.s.	(32) 30.03.2010	(22) 06.04.2012
(31) 16306831	(33) Germany	(54) MONITORING RECOMBINASE POLYMERASE AMPLIFICATION MIXTURES
(32) 28.12.2016	(47) 03.11.2021	(73) Abbott Diagnostics Scarborough, Inc.
(33) European Patent Office (EPO)	(51) C12P 19/44	(72) PIEPENBURG, Olaf
(47) 24.11.2021	C12N 15/82	ARMES, Niall A.
(51) C12N 15/86	A23L 27/30	GREENWOOD, Catherine Jean
A61K 48/00	(11) EP3320104	(74) ir. F.A. Geurts c.s.
(11) EP3256594	(21) EP16738144.1	(31) 201161472919 P
(21) EP16714066.4	(22) 11.07.2016	(32) 07.04.2011
(22) 09.02.2016	(54) METHOD FOR PREPARING A STEVIOL GLYCOSIDE COMPOSITION	(33) United States of America
(54) ENHANCED DELIVERY OF VIRAL PARTICLES TO THE STRIATUM AND CORTEX	(73) DSM IP Assets B.V.	(47) 20.10.2021
(73) Genzyme Corporation	(72) GEERTMAN, Robert	(51) C12Q 1/6827
(72) SHIHABUDDIN, Lamya	GALAEV, Igor	(11) EP3690060
STANEK, Lisa, M.	(74) ir. W.J.J.M. Kempes	(21) EP20150354.7
(74) ir. W.J.J.M. Kempes	(31) 201562191007 P	(22) 08.10.2015
	(32) 10.07.2015	(54) METHOD FOR IDENTIFICATION AND RELATIVE QUANTIFICATION
	(33) United States of America	

OF NUCLEIC ACID SEQUENCE	(32) 12.03.2018	H01M 4/88
EXPRESSION, SPLICE VARIANT,	(33) World Intellectual Property Office (WIPO)	H01M 4/90
TRANSLOCATION, COPY NUMBER,	(47) 24.11.2021	H01M 12/06
OR METHYLATION CHANGES USING	(51) C23C 2/00	B01J 23/00
COMBINED NUCLEASE, LIGATION,	C23C 2/40	B01J 23/78
AND POLYMERASE REACTIONS WITH	C23C 2/06	B01J 35/00
CARRYOVER PREVENTION	C23C 2/12	B01J 21/06
(73) Cornell University	C23C 2/20	(11) EP3601639
(72) RUIZ RUEDA, Cristian	(11) EP3449029	(21) EP18719060.8
BARANY, Francis	(21) EP17719928.8	(22) 28.03.2018
HUANG, Jianmin	(22) 26.04.2017	(54) CHEMICALLY RESISTANT, OXIDIC
FEINBERG, Philip B	(54) APPARATUS FOR THE CONTINUOUS	ELECTROCATALYST FOR OXYGEN
EFCAVITCH, John William	HOT DIP COATING OF A METAL STRIP	DEVELOPMENT DURING ALKALINE
(74) drs. C.M.A. Quintelier	AND ASSOCIATED METHOD	WATER ELECTROLYSIS
(31) 201562103894 P	(73) ArcelorMittal	(73) Forschungszentrum Jülich GmbH
201462061376 P	(72) DAUCHELLE, Didier	RWTH Aachen
(32) 15.01.2015	VEG, José	(72) WASER, Rainer
08.10.2014	SAINT-RAYMOND, Hubert	SCHNELLER, Theodor
(33) United States of America	(74) ir. M.F.J.M. Ketelaars c.s.	VALOV, Iliia
United States of America	(31) PCT/IB2016/052360	BICK, Daniel
(47) 08.12.2021	(32) 26.04.2016	(74) ir. H.J.G. Lips c.s.
(51) C12Q 1/6883	(33) World Intellectual Property Office (WIPO)	(31) 102017205339
C12N 15/11	(47) 15.12.2021	(32) 29.03.2017
A61P 3/10	(51) C23C 2/02	(33) Germany
A61P 35/00	C23C 2/06	(47) 10.11.2021
A61P 43/00	C23C 2/40	(51) C40B 70/00
(11) EP3155124	C25D 3/12	G01N 33/543
(21) EP15729929.8	C25D 3/22	B82Y 5/00
(22) 16.06.2015	C23C 14/16	(11) EP3262059
(54) REDUCING INTRON RETENTION	C23C 14/02	(21) EP16756316.2
(73) University Of Southampton	C23C 14/06	(22) 24.02.2016
(72) KRALOVICOVA, Jana	C23C 28/02	(54) CHEMICALLY ENCODED SPATIALLY
VORECHOVSKY, Igor	C25D 3/56	ADDRESSED LIBRARY SCREENING
(74) ir. W.J.J.M. Kempes	C25D 7/06	PLATFORMS
(31) 201410693	(11) EP3701057	(73) City of Hope
(32) 16.06.2014	(21) EP18797149.4	(72) COPELAND, Gregory
(33) United Kingdom	(22) 19.10.2018	ELISON, Kathleen
(47) 24.11.2021	(54) A METHOD FOR THE MANUFACTURE	BERLIN, Jacob
(51) C22C 21/02	OF A COATED STEEL SHEET	MURADYAN, Hurik
C22F 1/043	(73) ArcelorMittal	(74) dr. A. Krebs
(11) EP3505649	(72) ALLELY, christian	(31) 201562120262 P
(21) EP18248147.3	MACHADO AMORIM, Tiago	(32) 24.02.2015
(22) 28.12.2018	GHASSEMI-ARMAKI, Hassan	(33) United States of America
(54) DIE CASTING ALUMINUM ALLOY,	CHAKRABORTY, Anirban	(47) 05.01.2022
PRODUCTION METHOD OF DIE	BERTHO, pascal	(51) D01D 4/02
CASTING ALUMINUM ALLOY, AND	(74) ir. M.F.J.M. Ketelaars c.s.	B29C 48/05
COMMUNICATIONS PRODUCT	(31) PCT/IB2017/001288	B29C 48/19
(73) Huawei Technologies Co., Ltd.	(32) 24.10.2017	B29C 48/27
(72) LIU, Xiaorui	(33) World Intellectual Property Office (WIPO)	B29C 48/29
HU, Banghong	(47) 01.12.2021	B29C 48/345
MENG, Naier	(51) C25B 1/04	B29C 48/92
(74) ir. W.J.J.M. Kempes	C25B 9/19	(11) EP3449046
(31) 201711468332	C25B 15/08	(21) EP17722258.5
(32) 29.12.2017	B01D 47/10	(22) 24.04.2017
(33) China	B01D 53/18	(54) SPINNERET ASSEMBLY FOR
(47) 08.12.2021	(11) EP3680364	SPINNING POLYMERIC FIBERS
(51) C23C 2/00	(21) EP17924186.4	(73) Cytec Industries Inc.
C23C 2/40	(22) 07.09.2017	(74) ir. W.J.J.M. Kempes
(11) EP3765648	(54) ELECTROLYTIC DEVICE	(31) 201662326978 P
(21) EP19704888.7	(73) De Nora Permelec Ltd	(32) 25.04.2016
(22) 14.02.2019	(72) OHARA Masahiro	(33) United States of America
(54) METHOD FOR DIP-COATING A METAL	MANABE Akiyoshi	(47) 03.11.2021
STRIP	(74) ir. A. Blokland c.s.	(51) D01D 10/06
(73) ArcelorMittal	(47) 05.01.2022	D01F 6/80
(72) GARCIA MARTINO, Angel	(51) C25B 1/04	(11) EP2802693
GARCIA-CHAPA, Inocencio	C25B 11/052	(21) EP12701798.6
(74) ir. M.F.J.M. Ketelaars c.s.	C25B 11/069	(22) 11.01.2012
(31) PCT/IB2018/051603	C25B 11/077	

(54) PROCESS FOR PREPARING ARAMID COPOLYMER YARN USING AN ACID WASH	(32) 12.10.2016 (33) Japan (47) 01.12.2021	D21H 17/00 D21H 21/16 (11) EP3628775
(73) DuPont Safety & Construction, Inc.	(51) D06F 67/04	(21) EP19211000.5
(74) ir. H.A. Witmans c.s.	(11) EP3680384	(22) 25.06.2013
(47) 03.11.2021	(21) EP20151160.7	(54) METHODS FOR BIODEGRADABLE DERIVATIZATION OF CELLULOSIC SURFACES
(51) D01F 6/90 D06P 3/24	(22) 10.01.2020 (54) METHOD FOR DETERMINING THE SHORTER AND/OR LONGER EDGE OF PIECES OF LAUNDRY AND FOR FEEDING PIECES OF LAUNDRY INTO A LAUNDRY TREATMENT DEVICE	(73) Philip Morris Products S.A. (72) TRIGIANTE, Giuseppe (74) dr. W.A.H.M. Van Borm (31) 201213531939 (32) 25.06.2012 (33) United States of America (47) 15.12.2021
(11) EP3310948	(73) Herbert Kannegiesser GmbH	(51) E01B 27/16
(21) EP15733890.6	(72) Heinz, Engelbert Bringewatt, Wilhelm	(11) EP3581711
(22) 18.06.2015	(74) ir. M.F.J.M. Ketelaars c.s.	(21) EP19180078.8
(54) POLYAMIDE FIBER WITH ENHANCED DYEING PROPERTIES, PROCESS FOR OBTAINING SUCH FIBER AND POLYAMIDE ARTICLE MADE THEREFROM	(31) 102019000127 (32) 11.01.2019 (33) Germany (47) 27.10.2021	(22) 13.06.2019 (54) TAMPING UNIT FOR TAMPING A RAILWAY BED
(73) Rhodia Poliamida e Especialidades S.A.	(51) D21D 1/00 B02C 7/11 D21D 1/30 B02C 7/04 B02C 23/20	(73) Baumberger, Christoph (72) BAUMBERGER, Christoph (74) ir. W.J.J.M. Kempes (31) 504842018 (32) 15.06.2018 (33) Austria (47) 03.11.2021
(74) ir. W.J.J.M. Kempes	(11) EP3754106 (21) EP19181419.3 (22) 20.06.2019	(51) E01F 8/00 E01F 15/04
(47) 03.11.2021	(54) APPARATUS AND METHOD FOR DISPERSING OR REFINING OF ORGANIC MATERIAL, SUCH AS CELLULOSE FIBER AND ORGANIC WASTE	(11) EP3482002 (21) EP17739944.1 (22) 07.07.2017
(51) D01H 13/10 B65H 59/00	(73) Cellwood Machinery AB (72) ANARP, Tomas VIRTANEN, Stefan ROMBO, Dan	(54) A NOISE ABSORBING PANEL FOR USE IN A SOUND ABSORBING GUARD RAIL SYSTEM
(11) EP3208370	(74) ir. M.F.J.M. Ketelaars c.s.	(73) Rockwool International A/S (72) SCHNITZLER, Hans-Jürgen
(21) EP17152126.3	(47) 24.11.2021	(72) PEDERSEN, Leon Samsø DRÖGE, Jan Eike JØRGENSEN, Kristian Skovgaard EMBORG, Michael SØRENSEN, Bruno Kirk ANDERSEN, Steffen
(22) 19.01.2017	(51) D21H 19/36 D21H 19/82 D21H 21/16	(74) ir. W.J.J.M. Kempes (31) 16178826 (32) 11.07.2016 (33) European Patent Office (EPO) (47) 10.11.2021
(54) DEVICE AND METHOD FOR DETERMINING THE DIAMETER OF A THREAD BALLOON, FORMED BY A RUNNING THREAD AT THE WORKSTATION OF A TEXTILE MACHINE	(11) EP3541991 (21) EP17811771.9 (22) 17.11.2017	(51) E01F 13/12 F41H 11/08
(73) Saurer Technologies GmbH & Co. KG	(54) OIL AND GREASE RESISTANT PAPERBOARD	(11) EP3680388 (21) EP19151673.1 (22) 14.01.2019
(72) PEDE-VOGLER, Walter HIEPP, Magnus THALER, Alexander	(73) WestRock MWV, LLC (72) PANG, Jiebin MELTON, Natasha CLARK, Terry PARKER, Steven KRUG, Teresa REIGEL, Scott J.	(54) ACCESS PROTECTION
(74) drs. C.M.A. Quintelier	(74) J.M.H. Duyver lic.	(73) Wiener Messe Besitz GmbH (72) BUCHTA, Franz (74) ir. F.A. Geurts c.s. (47) 10.11.2021
(31) 102016001099	(31) 201662423217 P (32) 17.11.2016 (33) United States of America (47) 27.10.2021	(47) 10.11.2021
(32) 02.02.2016	(51) D21H 25/06 B65D 65/40 D21H 27/10 D21H 11/16 D21H 11/18 D21H 11/20 D21H 17/07 D21H 17/11 D21H 17/14	(51) E02B 3/26 B63B 59/02 F16F 1/36
(33) Germany		(11) EP3133208 (21) EP16183281.1 (22) 09.08.2016
(47) 17.11.2021		(54) FENDER DEVICE (73) SUMITOMO RUBBER INDUSTRIES LIMITED
(51) D04B 1/10 D04B 1/24		
(11) EP3153615		
(21) EP16182579.9		
(22) 03.08.2016		
(54) COMPRESSIVE PANT AND A METHOD OF MAKING A BUTTOCK SUBTENDING PANT PIECE		
(73) medi GmbH & Co. KG		
(72) Rockstroh, Martin Herold-Herrmann, Alexandra		
(74) ir. W.J.J.M. Kempes		
(31) 102015115228		
(32) 10.09.2015		
(33) Germany		
(47) 24.11.2021		
(51) D04B 1/12		
(11) EP3312324		
(21) EP17187445.6		
(22) 23.08.2017		
(54) METHOD OF KNITTING WOVEN FABRIC LIKE JACQUARD FABRIC FOR A MATTRESS TICKING		
(73) Monarch Knitting Machinery (U.K) Ltd.		
(72) Hodgson, Kimberley Brunton, David Martin, Helen		
(74) ir. H.A. Witmans c.s.		
(31) 2016200667		

(72) TERADA, Takashi TSUJI, Tomohiro	(74) ir. H.A. Witmans c.s. (31) PA201700559 (32) 06.10.2017 (33) Denmark (47) 10.11.2021	(21) EP20150912.2 (22) 09.01.2020 (54) A MIDDLE FLASHING ASSEMBLY AND A METHOD FOR WEATHER- PROOFING A ROOF WINDOW ARRANGEMENT
(74) ir. M.F.J.M. Ketelaars c.s. (31) 2015161241 (32) 18.08.2015 (33) Japan (47) 24.11.2021	(51) E04B 2/74 E04B 2/78 E04C 3/07 E04C 3/04	(73) VKR Holding A/S (72) Allesen, Torben Krogsgaard (74) ir. J.D. de Zeeuw (31) PA201970015 (32) 10.01.2019 (33) Denmark (47) 10.11.2021
(51) E02D 13/04 (11) EP3638855 (21) EP18732937.0 (22) 07.06.2018 (54) A TEMPLATE AND A METHOD OF USING THE TEMPLATE	(11) EP3688242 (21) EP18780024.8 (22) 25.09.2018 (54) FRAME FOR A WALL ELEMENT	(51) E04F 11/18 (11) EP2952648 (21) EP15169639.0 (22) 28.05.2015 (54) CLAMPING ARRANGEMENT FOR A PLATE-SHAPED BODY
(73) IHC Holland IE B.V. (72) BROUWER, Willibrordus Adelbertus Maria (74) ir. A.R. Aalbers (31) 2019068 (32) 14.06.2017 (33) Netherlands (47) 17.11.2021	(73) Triplan International A/S (72) LARSEN, Klaus Groth (74) ir. W.J.J.M. Kempes (31) PA201770722 (32) 25.09.2017 (33) Denmark (47) 20.10.2021	(73) IMS Nederland B.V. (72) WIJBENGA, Albertus Johannes (74) mr. ir. J. van Breda c.s. (31) 2012944 (32) 04.06.2014 (33) Netherlands (47) 12.01.2022
(51) E02F 3/352 E02F 3/36 E02F 3/407 E02F 3/43 E02F 3/96 (11) EP3307957 (21) EP16739206.7 (22) 10.06.2016 (54) BUCKET FOR A CONSTRUCTION VEHICLE USED FOR LOADING, MOVING, TRANSPORTING, POURING OR SPREADING BULK MATERIAL	(51) E04B 2/74 E04B 9/22 E04B 9/18 (11) EP2923005 (21) EP13798303.7 (22) 25.11.2013 (54) DAMPING ASSEMBLY (73) Akoustos AB (72) ISSAL, Raimo HAMMER, Per (74) mr. ir. J. van Breda c.s. (31) 1251329 (32) 23.11.2012 (33) Sweden (47) 10.11.2021	(51) E04F 11/18 F16B 11/00 (11) EP3431679 (21) EP18176866.4 (22) 08.06.2018 (54) PANEL SUPPORT SYSTEM AND METHOD (73) Pure Vista Ltd (72) Noble, Angus (74) dr. W.A.H.M. Van Borm (31) 201711733 (32) 21.07.2017 (33) United Kingdom (47) 08.12.2021
(73) Abgralll Conception (72) ABGRALL, Pierrick ABGRALL, Roland ABGRALL, Philippe (74) ir. F.A. Geurts c.s. (31) 1555333 (32) 11.06.2015 (33) France (47) 17.11.2021	(51) E04B 9/04 E04F 13/00 (11) EP3625403 (21) EP17726708.5 (22) 19.05.2017 (54) BUILDING PANEL ADAPTED TO BE MOUNTED AT A CEILING OR WALL OF A ROOM AND METHOD OF MANUFACTURING SUCH BUILDING PANEL	(51) E04F 21/22 (11) EP3784846 (21) EP19720521.4 (22) 24.04.2019 (54) SPACER FOR A JOINT BETWEEN WALL AND FLOOR COVERING (73) Schulze, Ralph (72) Schulze, Ralph (74) dr. W.A.H.M. Van Borm (31) 202018102336 U (32) 26.04.2018 (33) Germany (47) 27.10.2021
(51) E02F 3/92 (11) EP3635182 (21) EP18731227.7 (22) 31.05.2018 (54) A CUTTER HEAD WITH SUCTION FUNCTION AND A METHOD FOR USING SAME	(73) Kvadrat Soft Cells A/S (74) J.M.H. Duyver lic. (47) 03.11.2021	(51) E04H 4/10 (11) EP3739149 (21) EP20173690.7 (22) 08.05.2020 (54) AUTOMATIC WINDER (73) PBK - ENCO (72) DELETRAZ, Nicolas BREMAUD, Eric (74) ir. W.J.J.M. Kempes (31) 1905055 (32) 15.05.2019 (33) France (47) 17.11.2021
(73) Dredge Yard DMCC (72) YOUSEF, Basel (74) ir. M.B. Plaggenborg (31) 2019004 (32) 31.05.2017 (33) Netherlands (47) 20.10.2021	(51) E04C 2/04 E04C 2/06 E04C 2/288 (11) EP2295666 (21) EP10305832.7 (22) 28.07.2010 (54) METHOD OF PRODUCTION FOR INSULATION PANELS AND SUCH AN INSULATION PANEL	(51) E04H 4/10 (11) EP3739149 (21) EP20173690.7 (22) 08.05.2020 (54) AUTOMATIC WINDER (73) PBK - ENCO (72) DELETRAZ, Nicolas BREMAUD, Eric (74) ir. W.J.J.M. Kempes (31) 1905055 (32) 15.05.2019 (33) France (47) 17.11.2021
(51) E03B 11/00 H02J 3/28 H02J 3/38 F03B 13/06 H02J 15/00 (11) EP3692253 (21) EP18786212.3 (22) 27.09.2018 (54) SYSTEM FOR STORAGE OF ENERGY AND/OR WATER	(73) Maisons Naturelles en Béton de Chanvre (72) CHARVOZ, Laurent (74) dr. W.A.H.M. Van Borm (31) 0955305 (32) 29.07.2009 (33) France (47) 27.10.2021	(51) E04D 13/147 E04D 13/03 (11) EP3680417
(73) AquaNamic Holding ApS (72) GRAMKOW, Asger		(51) E04H 4/16

(11) EP3613925	(32) 14.01.2017	(11) EP3649317
(21) EP19199406.0	(33) Slovenia	(21) EP18795706.3
(22) 10.02.2017	(47) 27.10.2021	(22) 04.09.2018
(54) SELF CLEANING POOL CLEANER	(51) E05F 3/22	(54) BEND RESTRICTOR
(73) Maytronics Ltd.	E05F 1/00	(73) Balmoral Comtec Limited
(72) GOLAN, Oded	(11) EP3064692	(74) ir. J.D. de Zeeuw
WITELSON, Shay	(21) EP15203033.4	(31) 201714172
BEN DOV, Boaz	(22) 30.12.2015	(32) 04.09.2017
(74) ir. W.J.J.M. Kempes	(54) LOCKING DEVICE FOR A DOOR	(33) United Kingdom
(31) 201662293783 P	(73) dormakaba Deutschland GmbH	(47) 03.11.2021
(32) 11.02.2016	(72) KAMPMEIER, Stefan	(51) E21B 19/02
(33) United States of America	BRUCKERT, Michael	(11) EP3475518
(47) 05.01.2022	WAMSER, Thomas	(21) EP16906478.9
(51) E04H 6/12	BÖSE, Felix	(22) 01.09.2016
B66F 7/24	(74) ir. J.D. de Zeeuw	(54) CLAMP-ON SINGLE JOINT
B66F 7/28	(31) 102015102911	MANIPULATOR FOR USE WITH
(11) EP3710651	(32) 02.03.2015	SINGLE JOINT ELEVATOR
(21) EP18806993.4	(33) Germany	(73) Frank's International, LLC
(22) 09.11.2018	(47) 17.11.2021	(72) SMITH, Logan
(54) PARKING PLATFORM FOR A MOTOR	(51) E05F 15/603	GUIDRY, Nicholas
VEHICLE	(11) EP3475512	LUTGRING, Keith
(73) Wöhr Autoparksysteme GmbH	(21) EP17728873.5	(74) ir. C.G.C. Veldman-Dijkers
(72) RAUSELL, Ignacio Vinas	(22) 12.06.2017	(31) 201662353720 P
(74) ir. H.J.G. Lips c.s.	(54) DOOR OPERATOR AND METHOD FOR	(32) 23.06.2016
(31) 102017126699	SET-UP OF A DOOR OPERATOR	(33) United States of America
(32) 14.11.2017	(73) ASSA ABLOY Entrance Systems AB	(47) 12.01.2022
(33) Germany	(72) SÖDERQVIST, Sven-Gunnar	(51) E21B 23/08
(47) 05.01.2022	(74) mr. ir. J. van Breda c.s.	E21B 33/12
(51) E05B 19/00	(31) 1630162	E21B 34/06
E05B 27/00	(32) 22.06.2016	(11) EP2668366
(11) EP3623549	(33) Sweden	(21) EP12739726.3
(21) EP18194349.9	(47) 01.12.2021	(22) 25.01.2012
(22) 13.09.2018	(51) E06B 1/02	(54) SETTING TOOL
(54) LOCK SYSTEM WITH A KEY AND A	E06B 1/32	(73) Halliburton Energy Services, Inc.
LOCK CYLINDER	E06B 3/54	(72) WATSON, Brock
(73) Talleres de Escoriaza, S.A.U.	E06B 1/60	(74) dr. ir. F.M. van Bouwelen
(74) ir. W.J.J.M. Kempes	(11) EP3674508	(31) 201113014705
(47) 03.11.2021	(21) EP19214697.5	(32) 26.01.2011
(51) E05B 67/00	(22) 10.12.2019	(33) United States of America
E05B 71/00	(54) BUILT-IN ELEMENT, DOOR SYSTEM	(47) 01.12.2021
E05B 73/00	COMPRISING A BUILT-IN ELEMENT	(51) F01D 25/30
E05B 45/00	AND METHOD FOR ASSEMBLING A	(11) EP3682092
(11) EP3724427	BUILT-IN ELEMENT	(21) EP18766199.6
(21) EP18819064.9	(73) dormakaba Deutschland GmbH	(22) 05.09.2018
(22) 10.12.2018	(72) Finke, Andreas	(54) EXHAUST GAS TURBINE WITH A
(54) SECURING CABLE FOR SECURING	Höher, Ralf	DIFFUSER
MOVABLE OBJECTS	Liebscher, Arne	(73) ABB Schweiz AG
(73) Texlock GmbH	(74) ir. J.D. de Zeeuw	(72) SENN, Stephan
(72) BAUM, Alexandra	(31) 102018133596	MATHEY, Christoph
BRAND, Suse	(32) 26.12.2018	(74) ir. W.J.J.M. Kempes
(74) dr. A. Ellens c.s.	(33) Germany	(31) 102017121337
(31) 102017129894	(47) 20.10.2021	(32) 14.09.2017
(32) 14.12.2017	(51) E06B 9/262	(33) Germany
(33) Germany	E06B 9/322	(47) 27.10.2021
(47) 10.11.2021	(11) EP3489452	(51) F02B 23/00
(51) E05D 15/06	(21) EP17204103.0	F02D 19/02
E05F 15/652	(22) 28.11.2017	F02D 19/10
(11) EP3568551	(54) DRIVE ASSEMBLY FOR TOP DOWN	F02F 3/00
(21) EP18709808.2	BOTTOM UP BLINDS	F02B 23/06
(22) 12.01.2018	(73) Brel Nederland B.V.	(11) EP3295003
(54) LINEAR DRIVE UNIT FOR AUTOMATIC	(72) Budding, Erik Willem Alexander	(21) EP15725691.8
SLIDING DOOR	Arts, Reinoud Johannes Wilhelmus Maria	(22) 12.05.2015
(73) Doorson D.O.O.	(74) ir. M.F.J.M. Ketelaars c.s.	(54) A PISTON FOR A FOUR-STROKE
(72) HANZIC, Franc	(47) 22.12.2021	INTERNAL COMBUSTION ENGINE
CEHNER, Slavko	(51) E21B 17/10	AND A FOUR-STROKE INTERNAL
CEHNER, Urban	E21B 17/01	COMBUSTION ENGINE
(74) J. Hoekstra	F16L 1/12	(73) Wärtsilä Finland Oy
(31) 201700017		(72) NURMI, Hannu

(74) ir. W.J.J.M. Kempes (47) 17.11.2021	(31) 201161484800 P (32) 11.05.2011	(47) 15.12.2021
(51) F02C 7/045 F02C 7/24 B33Y 10/00	(33) United States of America (47) 03.11.2021	(51) F15B 19/00 F15B 20/00 G01M 3/26
(11) EP3655636 (21) EP18749687.2 (22) 16.07.2018	(51) F03D 13/25 B66C 1/10 F03D 13/10	(11) EP2802783 (21) EP13736038.4 (22) 14.01.2013
(54) ACOUSTIC ATTENUATOR FOR A TURBOMACHINE AND METHODOLOGY FOR ADDITIVELY MANUFACTURING SAID ACOUSTIC ATTENUATOR	(11) EP3642148 (21) EP18732076.7 (22) 19.06.2018	(54) METHOD AND APPARATUS FOR DEACTIVATING A HYDRAULIC DEVICE THAT IS LEAKING HYDRAULIC OIL
(73) Dresser Rand Company (72) MACWILLIAMS, Scott GUERRA, Christopher MOHR, Byron L.	(54) STABILITY FRAME, SYSTEM AND METHOD FOR THE INSTALLATION OF A WIND TURBINE ON AN OFFSHORE SUBSTRUCTURE	(73) Gulfstream Services, Inc. (74) dr. A. Krebs (31) 201261727324 P 201261586530 P
(74) ir. M.F.J.M. Ketelaars c.s. (31) 201762535266 P (32) 21.07.2017 (33) United States of America (47) 24.11.2021	(73) Saipem S.p.A. (72) MCCARTHY, Vincent George SEXTON, Christopher	(32) 16.11.2012 13.01.2012 (33) United States of America United States of America (47) 03.11.2021
(51) F03D 7/02 (11) EP3555460 (21) EP17811598.6 (22) 11.12.2017	(74) ir. F.A. Geurts c.s. (31) 201700068019 (32) 19.06.2017 (33) Italy (47) 17.11.2021	(51) F16B 13/02 E04B 2/08 F16B 19/00
(54) WIND ENERGY SYSTEM AND METHOD FOR STARTING A WIND ENERGY SYSTEM	(51) F03H 1/00 (11) EP3724497 (21) EP18753043.1 (22) 24.07.2018	(11) EP3655668 (21) EP18737393.1 (22) 22.06.2018 (54) IMPROVED DOWEL
(73) Siemens Gamesa Renewable Energy Service GmbH (72) RAUTENSTRAUCH, Arne AUGART, Nicolas	(54) ION THRUSTER (73) ENPULSION GmbH (72) PLESESCU, Florin BULDRINI, Nembo	(73) Munro Sawmills Ltd (72) BLAKE, Philip (74) dr. A. Krebs (31) 201711734 (32) 21.07.2017 (33) United Kingdom (47) 08.12.2021
(74) dr. W.A.H.M. Van Borm (31) 102016015133 (32) 13.12.2016 (33) Germany (47) 20.10.2021	(74) ir. M.F.J.M. Ketelaars c.s. (31) 601382017 (32) 12.12.2017 (33) Austria (47) 24.11.2021	(47) 03.11.2021 (51) F16B 13/02 E04B 2/08 F16B 19/00
(51) F03D 7/02 F03D 13/00 F03D 80/70 F03D 17/00 F16C 19/38 F16C 19/52 F16C 25/06	(33) Austria (47) 24.11.2021	(51) F16C 17/10 (11) EP3271596 (21) EP15710516.4 (22) 18.03.2015 (54) HYDRODYNAMIC SLIDING BEARING
(11) EP3004635 (21) EP14727866.7 (22) 05.06.2014	(51) F04B 39/14 F04B 35/01 F04B 35/04 F04B 39/00 F04B 39/06 F04B 39/12 F04B 41/02	(73) Berger, Martin (72) Berger, Martin (74) ir. W.J.J.M. Kempes (47) 17.11.2021
(54) WIND TURBINE CONTROL	(11) EP3628869 (21) EP19199681.8 (22) 25.09.2019	(51) F16C 35/077 F16C 19/52 F16C 27/06 F04D 29/059 F04D 29/42
(73) Equinor Energy AS (72) BRENNE, Lars KIBSGAARD, Svend Tarald TORSVIK, Jone	(54) TRANSMISSION MECHANISM OF AIR COMPRESSOR	(11) EP3754217 (21) EP20189536.4 (22) 06.04.2018 (54) BLOWER WITH BLOWER HOUSING PARTS WITH BEARING SUPPORT
(74) ir. H.A. Witmans c.s. (31) 201310210 (32) 07.06.2013 (33) United Kingdom (47) 17.11.2021	(73) UNIK World Industrial Co., Ltd. (72) Chou, Wen-San (74) ir. M.B. Plaggenborg (31) 107134569 (32) 28.09.2018 (33) Taiwan, Province of China (47) 27.10.2021	(73) ebm-papst Mulfingen GmbH & Co. KG (72) HENNEGRUFF, Matthias MÜLLER, Rainer HÄFNER, Jochen FUCHS, Michael
(51) F03D 7/04 F03D 7/02 F03D 1/06	(51) F15B 11/032 F15B 3/00	(74) ir. W.J.J.M. Kempes (31) 102017112983 (32) 13.06.2017 (33) Germany (47) 01.12.2021
(11) EP2712403 (21) EP12728120.2 (22) 10.05.2012	(11) EP3722619 (21) EP19168568.4 (22) 11.04.2019	(51) F16G 3/06 B65G 15/36
(54) POWER MANAGEMENT SYSTEM FOR YAW CONTROLLED WIND TURBINES	(54) HYDRAULIC PRESSURE AMPLIFIER ARRANGEMENT	(11) EP3779236 (21) EP19192048.7 (22) 16.08.2019
(73) Seawind Ocean Technology Holding BV (74) J.M.H. Duyver lic.	(73) Piston Power s.r.o. (72) Hanusovsky, Juraj Todsén, Jørgen Peter Zavadinka, Peter Clausen, Jørgen Mads Vokel, Lubos	
	(74) ir. M.F.J.M. Ketelaars c.s.	

(54) CLAMPING CONNECTION FOR THE CONTINUOUS CONNECTION OF A CONVEYOR BELT	(47) 10.11.2021	(32) 05.10.2017
(73) BEUMER Group GmbH & Co. KG	(51) F16K 31/04	05.10.2017
(72) van Essen, Josef	F16K 31/50	(33) France
(74) dr. ir. G.J.C. Verdijck c.s.	F16K 1/54	France
(47) 13.10.2021	F16K 25/00	(47) 03.11.2021
(51) F16G 13/12	F16K 41/12	(51) F16L 13/14
F16G 15/04	F16K 27/02	F16L 33/207
(11) EP2686578	(11) EP3686466	F16L 15/08
(21) EP12707575.2	(21) EP20153614.1	F16L 21/06
(22) 05.03.2012	(22) 24.01.2020	(11) EP3359859
(54) DEVICE FOR ATTACHING CHAIN LINKS	(54) PROPORTIONAL FLOW CONTROL VALVE POPPET WITH FLOW CONTROL NEEDLE	(21) EP16853971.6
(73) RUD Ketten Rieger & Dietz GmbH u. Co. KG	(73) MAC Valves, Inc.	(22) 21.09.2016
(72) JAKUBETZ, Roland	(72) WILLIAMS, Kevin C.	(54) PIPE FITTING ASSEMBLY
BETZLER, Michael	SOBKA, David M.	(73) Picton Holdings Limited
(74) ir. M.F.J.M. Ketelaars c.s.	(74) mr. ir. J. van Breda c.s.	(74) ir. W.J.J.M. Kempes
(31) 102011005805	(31) 201916258993	(31) 15713034
(32) 18.03.2011	(32) 28.01.2019	(32) 07.10.2015
(33) Germany	(33) United States of America	(33) New Zealand
(47) 20.10.2021	(47) 29.12.2021	(47) 03.11.2021
(51) F16H 25/18	(51) F16K 31/06	(51) F16L 17/00
(11) EP3372869	(11) EP3167215	F16L 37/00
(21) EP17159613.3	(21) EP15751067.8	F16L 19/06
(22) 07.03.2017	(22) 06.07.2015	F16L 21/00
(54) ACTUATOR	(54) IMPLEMENTATION SYSTEM FOR SLIDE SOLENOID VALVES	F16L 21/08
(73) Georg Fischer JRG AG	(73) Ode S.r.l.	F16L 37/14
(72) Wespisser, Frederic	(72) IACOVONE, Bruno	F16L 37/15
Cachot, Philippe	ROMERI, Roberto	E03F 3/04
Bürli, Stephan	(74) ir. H.A. Witmans c.s.	(11) EP3601864
(74) ir. W.J.J.M. Kempes	(31) MI20141249	(21) EP18772383.8
(47) 01.12.2021	(32) 08.07.2014	(22) 20.03.2018
(51) F16K 15/06	(33) Italy	(54) POSITIVE LOCK SYSTEM FOR RESTRAINED JOINTS OF DUCTILE IRON SPUN PIPES AND FITTINGS
E03C 1/00	(47) 27.10.2021	(73) Jindal Saw Ltd
F16K 15/14	(51) F16K 31/52	(72) BOSE, Partha
F16K 17/04	F16K 3/22	SHRIVASTAVA, Anurag
(11) EP3317567	F27B 1/10	SUBRAMONIAN, K.
(21) EP16731136.4	F16K 3/02	RAJASEKARAN, V.
(22) 21.06.2016	F16K 3/20	(74) ir. J.C. Volmer c.s.
(54) A FLUID STOP VALVE UNIT	F16K 27/04	(31) 201711009888
(73) 3Eflow AB	(11) EP3707450	(32) 21.03.2017
(74) ir. W.J.J.M. Kempes	(21) EP17808790.4	(33) India
(31) 1550943	(22) 09.11.2017	(47) 08.12.2021
(32) 02.07.2015	(54) GATE VALVE	(51) F16L 21/06
(33) Sweden	(73) TMT Tapping-measuring-technology Sàrl	F16L 19/02
(47) 03.11.2021	(72) STEICHEN, Charles	F16L 19/10
(51) F16K 17/04	HUTMACHER, Patrick	F16L 19/12
F16K 37/00	(74) ir. M.F.J.M. Ketelaars c.s.	F16L 21/00
F16K 17/06	(47) 27.10.2021	F16L 21/02
(11) EP3102861	(51) F16K 35/02	F16L 17/04
(21) EP15743543.9	F16K 31/60	F16L 21/08
(22) 28.01.2015	F17C 13/04	F16L 23/08
(54) RELIEF VALVE WITH POSITION INDICATION	F16K 1/30	F16L 37/091
(73) Daniel Measurement and Control, Inc.	F16K 35/14	(11) EP3458763
(72) CARUTHERS, Jack	F16K 1/44	(21) EP17799935.6
ALMAZAN, Raul H.	F16K 31/524	(22) 15.05.2017
ZAHR, Michael Richard Adib	(11) EP3692291	(54) SPRUNG COUPLING
SEILER, David J.	(21) EP18785693.5	(73) Victaulic Company
LOGA, Thomas Henry	(22) 02.08.2018	(72) YOVANOVICH, Kathryn
CROUCH, Justin Blake	(54) VALVE AND RESERVOIR(S) FOR PRESSURIZED FLUID	BANCROFT, Philip, Wayne
(74) ir. H.A. Witmans c.s.	(73) L'AIR LIQUIDE, SOCIÉTÉ ANONYME POUR L'ÉTUDE ET L'EXPLOITATION DES PROCÉDÉS GEORGES CLAUDE	MADARA, Scott, D.
(31) 201461934913 P	(74) ir. W.J.J.M. Kempes	SAVAGE, Thomas, C.
(32) 03.02.2014	(31) 1701025	BOWMAN, Matthew, A.
(33) United States of America	1701024	(74) dr. ir. G.J.C. Verdijck c.s.
		(31) 201662336879 P
		201662336885 P
		(32) 16.05.2016
		16.05.2016

(33) United States of America United States of America (47) 24.11.2021	(72) JANSSEN, Robert, Hendrik, Catharina DIJK VAN, Hans, Klaas (74) ir. W.J.J.M. Kempes	(72) ROSÉN, Per SKOGSTRÖM, Jacob ROSENQVIST, Fredrik (74) ir. W.J.J.M. Kempes
(51) F16L 43/00 (11) EP2693097 (21) EP12005610.6 (22) 02.08.2012 (54) SHUTTLE VALVE CONDUCTING GAS OR LIQUID	(31) 10153302 (32) 11.02.2010 (33) European Patent Office (EPO) (47) 08.12.2021	(31) 17210622 (32) 27.12.2017 (33) European Patent Office (EPO) (47) 12.01.2022
(73) Phönix Armaturen-Werke Bregel GmbH (72) Kellermann, Hannes Dr. Wodara, Gunter (74) ir. J.C. Volmer c.s. (47) 15.12.2021	(51) F22B 31/00 F22B 37/10 F22G 3/00 (11) EP3315860 (21) EP17196157.6 (22) 27.12.2005 (54) A CIRCULATING FLUIDIZED BED BOILER	(51) F24F 5/00 F28C 1/14 F28D 5/00 (11) EP3701198 (21) EP18795889.7 (22) 10.10.2018 (54) AIR HANDLING SYSTEM AND METHOD FOR FORMING AN AIR HANDLING SYSTEM
(73) Vertiv Corporation (72) LIN, Zhiyong (74) ir. M.F.J.M. Ketelaars c.s.	(73) Valmet Technologies Oy (72) Mäkelä, Kari Kuukkanen, Kari Petänen, Pertti Kokko, Ari (74) ir. H.A. Witmans c.s.	(31) 201816154128 201762576990 P (32) 08.10.2018 25.10.2017 (33) United States of America United States of America (47) 08.12.2021
(51) F16L 55/124 F16K 7/10 F16L 27/08 F16L 55/134 (11) EP3569914 (21) EP19175245.0 (22) 17.05.2019 (54) A FLOW STOPPING TOOL FOR PIPELINES	(31) 20045506 (32) 29.12.2004 (33) Finland (47) 08.12.2021	(31) 201762576990 P (32) 08.10.2018 25.10.2017 (33) United States of America United States of America (47) 08.12.2021
(73) J. van Beugen Beheer B.V. (72) CORIC, Enver VAN BEUGEN, Leonard (74) drs. W.H.P. Derks (31) 2020958 (32) 18.05.2018 (33) Netherlands (47) 20.10.2021	(51) F23J 1/00 B03B 9/04 (11) EP2668445 (21) EP12707240.3 (22) 02.03.2012 (54) PROCESSING OF WASTE INCINERATION ASHES	(51) F25C 1/10 F25C 5/04 (11) EP3662213 (21) EP18743560.7 (22) 30.07.2018 (54) EFFICIENT CLEAR ICE CUBE PRODUCTION
(51) F21V 8/00 F21K 9/60 F21S 43/14 F21Y 115/10 F21S 43/19 (11) EP2690356 (21) EP13177938.1 (22) 25.07.2013 (54) Lighting device (73) LG Innotek Co., Ltd. (72) Yang, Hyun Duck Park, Moo Ryong Kim, Chul Hong Park, Kwang Ho Kim, Jin Hee (74) dr. A. Ellens c.s.	(31) 102011013030 (32) 04.03.2011 (33) Germany (47) 03.11.2021	(31) 17184004 (32) 31.07.2017 (33) European Patent Office (EPO) (47) 15.12.2021
(31) 20120082830 20120082829 20120082826 20120082825 (32) 27.07.2012 27.07.2012 27.07.2012 27.07.2012	(51) F24D 3/14 (11) EP3425287 (21) EP18181107.6 (22) 02.07.2018 (54) SURFACE TEMPERING SYSTEM	(51) F25D 3/08 F25D 3/10 F25D 3/14 B65D 81/38 B65D 21/02 (11) EP3687922 (21) EP19758931.0 (22) 20.08.2019 (54) TRANSPORT CONTAINER
(33) Korea (Republic) Korea (Republic) Korea (Republic) Korea (Republic) (47) 10.11.2021	(74) Burkhardt, Oliver Beck, Thomas (74) ir. M.F.J.M. Ketelaars c.s. (31) 202017003466 U (32) 03.07.2017 (33) Germany (47) 10.11.2021	(73) W. Schoonen Beheer B.V. (72) SCHOONEN, Wilhelmus Franciscus (74) ir. M.F.J.M. Ketelaars c.s. (31) 17184004 (32) 31.07.2017 (33) European Patent Office (EPO) (47) 15.12.2021
(51) F21V 29/00 F21V 29/70 F21V 15/01 (11) EP2534418 (21) EP11704578.1 (22) 09.02.2011 (54) LED lighting device (73) DSM IP Assets B.V.	(51) F24D 10/00 F24D 19/10 F24F 3/10 G05D 23/19 F24F 11/30 (11) EP3732399 (21) EP18830251.7 (22) 20.12.2018 (54) CONTROL UNIT AND METHOD FOR CONTROLLING A LOCAL DISTRIBUTION SYSTEM'S OUTTAKE OF HEAT OR COLD FROM A THERMAL ENERGY DISTRIBUTION GRID	(51) F25D 11/00 F25D 17/04 A23B 7/148 A23L 3/00 (11) EP3446568 (21) EP16898889.7 (22) 18.07.2016
	(73) EMG Energimontagegruppen AB	

(54) ATMOSPHERE VALVE CONTROL DEVICE FOR INSTALLATION IN REFRIGERATED CONTAINERS	F28G 1/06 (11) EP3719435 (21) EP20168006.3	(21) EP18207097.9 (22) 19.11.2018 (54) METHOD AND APPARATUS FOR PROVIDING A TILE-BASED DIGITAL ELEVATION MODEL
(73) Liventus S.A.	(22) 03.04.2020	
(72) MARDONES SOTO, Claudia Alejandra POLA MATTE, Mariano VALENZUELA ROLLÁN, Francisco Javier	(54) INSERT FOR PIPE END (73) TOTAL RAFFINAGE CHIMIE (72) AUBIN, Nicolas STANDER, Adriaan	(73) HERE Global B.V. (72) Chen, Xin Zang, Andi
(74) dr. ir. G.J.C. Verdijck c.s.	(74) ir. W.J.J.M. Kempes	(74) drs. C.M.A. Quintelier
(31) 2016948	(31) 1903695	(31) 201715818159
(32) 20.04.2016	(32) 05.04.2019	(32) 20.11.2017
(33) Chile	(33) France	(33) United States of America
(47) 15.12.2021	(47) 08.12.2021	(47) 05.01.2022
(51) F26B 3/30 F26B 9/06 F26B 25/06 B05B 16/20	(51) F41H 5/013 F41H 5/08 F41H 5/24	(51) G01C 21/16 G01C 21/30
(11) EP3624954	(11) EP3581874	(11) EP3338105
(21) EP18723852.2	(21) EP18177427.4	(21) EP16837957.6
(22) 17.05.2018	(22) 13.06.2018	(22) 22.08.2016
(54) PAINTING AND DRYING BOOTH	(54) BALLISTIC SHIELD AND BALLISTIC SHELTER SYSTEM	(54) METHOD FOR ACCELEROMETER-ASSISTED NAVIGATION
(73) GJ Service S.R.L.	(73) Bold'Or B.V.	(73) Zendrive, Inc.
(72) COZZARI, Marta Maria	(72) Bol, Roald Erik	(72) CHOUDHARY, Romit, Roy RISBOOD, Pankaj MATUS, Jonathan PAL, Jayanta
(74) dr. ir. G.J.C. Verdijck c.s.	Tijssen, Sander Johannes Anthonius	
(31) 201700054267	(74) dr. T. Hubregtse	(74) dr. A. Krebs
(32) 18.05.2017	(47) 22.12.2021	(31) 201562207461 P
(33) Italy	(51) G01B 11/245 G01M 11/02	(32) 20.08.2015
(47) 13.10.2021	(11) EP3783303	(33) United States of America
(51) F28F 9/02 F28F 9/06 F28F 9/12 F28F 21/00 F28F 21/02 F28F 21/04 F28F 21/06 F28D 7/16	(21) EP20194216.6 (22) 23.04.2019 (54) METHOD AND DEVICE FOR MEASURING AN OPTICAL LENS FOR INDIVIDUAL WEAR SITUATIONS OF A USER	(47) 05.01.2022 (51) G01C 21/20 G08G 3/00 G06F 16/29
(11) EP3759411	(73) Carl Zeiss Vision International GmbH	(11) EP3739295
(21) EP19708280.3	(74) ir. W.J.J.M. Kempes	(21) EP20174524.7
(22) 27.02.2019	(31) 18168823	(22) 13.05.2020
(54) TUBE BUNDLE-TYPE HEAT EXCHANGER, TUBE BASE, AND METHOD FOR SEALING SAME	(32) 23.04.2018 (33) European Patent Office (EPO)	(54) METHOD FOR DETERMINING AN OPTIMAL NAVAL NAVIGATION ROUTES FROM HISTORICAL GNSS DATA OF NAVAL TRAJECTORIES
(73) SGL Carbon SE	(47) 03.11.2021	(73) S.A.T.E. - Systems and Advanced Technologies Engineering S.R.L.
(72) FERBER, Hermann ANETSEDER, Werner BALDERMANN, Klaus SPULLER, Ralph	(51) G01B 21/04 G01B 11/24 G06T 7/593 G06T 7/73 G06T 7/80 E01C 23/01 H04N 13/246	(72) FARINATI, Giacomo BRIGHENTI, Attilio BRIGHENTI, Chiara VASCON, Sebastiano GIUDICE, Lorenzo
(74) dr. W.A.H.M. Van Borm	(11) EP3742114	(74) ir. R. Wijnstra
(31) 102018001548	(21) EP20170803.9	(31) 201900006772
(32) 28.02.2018	(22) 22.04.2020	(32) 13.05.2019
(33) Germany	(54) STEREO CAMERA DISPARITY CORRECTION	(33) Italy
(47) 05.01.2022	(73) Ricoh Company, Ltd.	(47) 10.11.2021
(51) F28F 9/16 F28F 19/00 F28D 7/16	(72) MIMA, Hiroki AMANO, Seiya	(51) G01C 21/32 (11) EP3318844
(11) EP3724590	(74) ir. H.A. Witmans c.s.	(21) EP17198195.4
(21) EP18819088.8	(31) 2019094761	(22) 25.10.2017
(22) 12.12.2018	(32) 20.05.2019	(54) METHOD, APPARATUS, AND COMPUTER PROGRAM PRODUCT FOR VERIFYING AND/OR UPDATING ROAD MAP GEOMETRY BASED ON RECEIVED PROBE DATA
(54) ANTI-EROSION DEVICE FOR A SHELL-AND-TUBE EQUIPMENT	(33) Japan (47) 22.12.2021	
(73) ALFA LAVAL OLM I S.p.A.	(51) G01C 11/06 G01C 21/32 G01S 17/89 G06T 17/05 G09B 29/10 G09B 29/12	(73) HERE Global B.V. (72) GIURGIU, Gavril AVERBUCH, Alex
(72) MANENTI, Giovanni	(11) EP3486608	(74) ir. A. Blokland c.s.
(74) ir. H.A. Witmans c.s.		(31) 201615336267
(31) 17425125		(32) 27.10.2016
(32) 15.12.2017		(33) United States of America
(33) European Patent Office (EPO)		
(47) 10.11.2021		
(51) F28F 19/00		

(47) 05.01.2022	H01M 10/48	A61B 5/00
(51) G01F 23/00	(11) EP3643053	G01N 1/38
G01F 23/284	(21) EP18835653.9	G01N 15/14
G01F 25/00	(22) 18.07.2018	(11) EP2424589
G01S 7/52	(54) STRUCTURE FOR DETECTING	(21) EP10770212.8
G01S 7/40	TEMPERATURE OF ELECTRONIC	(22) 27.04.2010
(11) EP3236216	DEVICE	(54) SYSTEMS AND METHODS FOR
(21) EP17163183.1	(73) Samsung Electronics Co., Ltd.	ANALYZING BODY FLUIDS
(22) 27.03.2017	(72) PARK, Chanho	(73) Roche Diagnostics Hematology, Inc.
(54) AUTOMATIC PRESSURE	NA, Hyoseok	(72) ZAHNISER, David
CORRECTION FOR LEVEL GAUGES IN	JU, Wanjae	WINKELMAN, James
STORAGE TANKS	(74) dr. ir. G.J.C. Verdijck c.s.	LINDER, James
(73) Honeywell International Inc.	(31) 20170091170	TANASIJEVIC, Milenko
(72) ALTHOF, Michiel	(32) 18.07.2017	(74) drs. C.M.A. Quintelier
VAN SCHIE, Ard	(33) Korea (Republic)	(31) 173186 P
VAN BEKKUM, Frank	(47) 15.12.2021	(32) 27.04.2009
(74) ir. W.J.J.M. Kempes	(51) G01N 1/04	(33) United States of America
(31) 201615207693	A01G 7/00	(47) 20.10.2021
201662325771 P	A01G 9/029	(51) G01N 3/08
(32) 12.07.2016	A01G 31/02	G01N 3/18
21.04.2016	(11) EP3506732	G01N 3/42
(33) United States of America	(21) EP17781380.5	G01N 3/46
United States of America	(22) 05.09.2017	G01N 19/06
(47) 22.12.2021	(54) CULTURE AND SAMPLING DEVICE	(11) EP3391020
(51) G01H 9/00	FOR PLANTS	(21) EP16873981.1
G01V 1/18	(73) Deutsche Saatveredelung AG	(22) 09.12.2016
(11) EP2697612	(72) RADTKE, Simon	(54) MEASUREMENT OF MATERIAL
(21) EP12713995.4	MICIC, Zeljko	PROPERTIES UNDER LOCAL TENSILE
(22) 13.04.2012	(74) ir. H.A. Witmans c.s.	STRESS THROUGH CONTACT
(54) ALL-OPTICAL HYDROPHONE THAT IS	(31) 16187274	MECHANICS
NOT SENSITIVE TO TEMPERATURE	(32) 05.09.2016	(73) Massachusetts Materials Technologies
OR STATIC PRESSURE	(33) European Patent Office (EPO)	LLC
(73) THALES	(47) 10.11.2021	(72) BELLEMARE, Simon, C.
(72) LARDAT, Raphaël	(51) G01N 1/04	PALKOVIC, Steven, D.
ROUX, Gérard	A01G 7/00	WILLEY, Brendon, M.
LAUNAY, François-Xavier	A01G 9/029	SOUCY, Phillip, A.
DOISY, Martine	A01G 31/02	(74) ir. J.D. de Zeeuw
(74) ir. H.A. Witmans c.s.	(11) EP3506733	(31) 201562265234 P
(31) 1101165	(21) EP17781381.3	(32) 09.12.2015
(32) 14.04.2011	(22) 05.09.2017	(33) United States of America
(33) France	(54) CULTIVATION AND SAMPLING	(47) 17.11.2021
(47) 10.11.2021	METHOD FOR PLANTS	(51) G01N 21/552
(51) G01H 11/06	(73) Deutsche Saatveredelung AG	G01N 21/78
H04R 29/00	(72) MICIC, Zeljko	G01N 21/03
H04R 3/00	RADTKE, Simon	G01N 21/25
(11) EP2746737	(74) ir. H.A. Witmans c.s.	B01L 3/00
(21) EP11870906.2	(31) 16187274	G01N 33/543
(22) 19.08.2011	(32) 05.09.2016	G01N 21/64
(54) ACOUSTIC SENSOR APPARATUS AND	(33) European Patent Office (EPO)	G01N 21/84
ACOUSTIC CAMERA USING A MEMS	(47) 10.11.2021	(11) EP2748584
MICROPHONE ARRAY	(51) G01N 1/22	(21) EP12812347.8
(73) SM Instruments Co., Ltd.	G01N 15/00	(22) 29.10.2012
(72) KIM, Young-Gi	(11) EP3755987	(54) PARALLEL OPTICAL EXAMINATIONS
LEE, Kang-Hyun	(21) EP19759051.6	OF A SAMPLE
KANG, Jun-Goo	(22) 25.07.2019	(73) Siemens Healthineers Nederland B.V.
(74) ir. M.F.J.M. Ketelaars c.s.	(54) DEVICE AND METHOD FOR	(72) DITTMER, Wendy Uyen
(31) 20110082124	MEASURING THE DUST CONTENT OF	NEIJZEN, Jacobus Hermanus Maria
(32) 18.08.2011	AN AIR STREAM	(74) ir. M.F.J.M. Ketelaars c.s.
(33) Korea (Republic)	(73) Optyl	(31) 201161555025 P
(47) 24.11.2021	(72) WILLEMS, Yves	(32) 03.11.2011
(51) G01K 1/16	(74) J.M.H. Duyver lic.	(33) United States of America
G01K 7/22	(31) 201805603	(47) 24.11.2021
G06F 1/20	(32) 29.08.2018	(51) G01N 21/64
G01K 1/14	(33) Belgium	G02B 5/22
G06F 1/16	(47) 01.12.2021	H01L 27/146
H05K 1/18	(51) G01N 1/28	G02B 19/00
H05K 3/36	A61B 5/145	(11) EP3732468
H01M 10/42	G01N 15/00	(21) EP18896064.5

<p>(22) 30.11.2018                  (54) DEVICE WITH REDUCED FLUORESCENCE RANGE NOISE AND METHOD                  (73) Illumina Inc.                  (72) FENG, Wenyi                  FUNG, Tracy H.                  HIRSCHBEIN, Bernard                  KHURANA, Tarun                  SMITH, Randall                  SABOUNCHI, Poorya                  PINTO, Joseph                  (74) ir. W.J.J.M. Kempes                  (31) 201862644804 P                  201762611464 P                  (32) 19.03.2018                  28.12.2017                  (33) United States of America                  United States of America                  (47) 15.12.2021  <hr/>                 (51) G01N 21/67                  G01J 3/443                  (11) EP3265786                  (21) EP16760960.1                  (22) 02.03.2016                  (54) PLASMA-BASED OPTICAL EMISSION GAS DETECTOR WITH PLASMA LOCALIZATION                  (73) Mécanique Analytique Inc.                  (72) GAMACHE, Yves                  (74) ir. W.J.J.M. Kempes                  (31) 201562129231 P                  (32) 06.03.2015                  (33) United States of America                  (47) 20.10.2021  <hr/>                 (51) G01N 21/84                  G16H 50/20                  G01N 21/88                  (11) EP3667301                  (21) EP18215541.6                  (22) 21.12.2018                  (54) METHOD AND SYSTEM FOR DETERMINING CONCENTRATION OF AN ANALYTE IN A SAMPLE OF A BODILY FLUID, AND METHOD AND SYSTEM FOR GENERATING A SOFTWARE-IMPLEMENTED MODULE                  (73) F. Hoffmann-La Roche AG                  (72) Aysin, Benhur                  Berg, Max                  Sieffert, Daniel                  Hailer, Fredrik                  Seelig, Peter                  Limburg, Bernd                  Wieder, Herbert                  Chittajallu, Diva                  (74) drs. C.M.A. Quintelier                  (31) 201862777360 P                  (32) 10.12.2018                  (33) United States of America                  (47) 01.12.2021  <hr/>                 (51) G01N 27/06                  H01M 6/32                  (11) EP3676606                  (21) EP19708862.8                  (22) 11.03.2019</p>	<p>(54) A DEVICE AND A METHOD FOR SENSING THE CONDUCTIVITY OF A FLUID                  (73) Consejo Superior de Investigaciones Científicas                  Institució Catalana De Recerca I Estudis Avançats (ICREA)                  (74) ir. W.J.J.M. Kempes                  (31) 18382158                  (32) 12.03.2018                  (33) European Patent Office (EPO)                  (47) 03.11.2021  <hr/>                 (51) G01N 29/04                  G01N 29/34                  G01N 29/42                  (11) EP2867664                  (21) EP13744858.5                  (22) 28.06.2013                  (54) METHOD AND APPARATUS FOR ACOUSTIC ASSESSMENT OF FLUID CONDUITS                  (73) Hydrason Solutions Limited                  Pipelines 2 Data (P2D) Limited                  (72) Capus, Chris                  Pailhas, Yan                  Money, Nigel                  Mayo, Steve                  (74) mr. ir. J. van Breda c.s.                  (31) 201211515                  (32) 28.06.2012                  (33) United Kingdom                  (47) 20.10.2021  <hr/>                 (51) G01N 29/12                  G01N 29/34                  G01N 29/44                  (11) EP3090258                  (21) EP14841364.4                  (22) 31.12.2014                  (54) METHOD AND APPARATUS FOR ACOUSTIC ASSESSMENT FROM THE INTERIOR OF FLUID CONDUITS                  (73) Pipelines 2 Data (P2D) Limited                  Hydrason Solutions Limited                  (74) mr. ir. J. van Breda c.s.                  (31) 201400041                  (32) 02.01.2014                  (33) United Kingdom                  (47) 03.11.2021  <hr/>                 (51) G01N 33/18                  (11) EP3450976                  (21) EP18191132.2                  (22) 28.08.2018                  (54) METHOD AND DEVICE FOR DETERMINING CHEMICAL OXYGEN REQUIREMENTS WITH THERMAL SAMPLE DECOMPOSITION                  (73) LAR Process Analysers AG                  (72) Arts, Dr. Werner                  (74) ir. M.F.J.M. Ketelaars c.s.                  (31) 102017120386                  (32) 05.09.2017                  (33) Germany                  (47) 20.10.2021  <hr/>                 (51) G01N 33/28                  (11) EP3414565                  (21) EP17701726.6                  (22) 30.01.2017</p>	<p>(54) DEVICE FOR ANALYSING THE TENDENCY TO THE FORMATION OF DEPOSITS IN A FUEL, IN PARTICULAR A FUEL USED IN AIRCRAFTS                  (73) IFP Energies nouvelles                  (72) BEN AMARA, Arij                  ALVES FORTUNATO, Maira                  STARCK, Laurie                  (74) ir. W.J.J.M. Kempes                  (31) 1651086                  (32) 11.02.2016                  (33) France                  (47) 27.10.2021  <hr/>                 (51) G01N 33/28                  C10M 169/00                  C10G 45/00                  C10G 45/02                  C10G 45/58                  C10G 73/02                  C10G 73/42                  C10G 21/00                  G01N 33/30                  C10M 101/02                  C10N 20/02                  C10N 70/00                  (11) EP3387426                  (21) EP16823375.7                  (22) 05.12.2016                  (54) RAPID ESTIMATION OF OIL FEEDSTOCK POTENTIAL FOR LUBRICANT BASE OIL FORMATION                  (73) ExxonMobil Research and Engineering Company                  (74) ir. W.J.J.M. Kempes                  (31) 201562265592 P                  (32) 10.12.2015                  (33) United States of America                  (47) 03.11.2021  <hr/>                 (51) G01N 33/48                  G01N 33/483                  A61B 5/00                  G01N 33/487                  G01N 24/08                  G01N 33/68                  G16B 40/00                  G16C 20/70                  (11) EP3271720                  (21) EP16767575.0                  (22) 18.03.2016                  (54) METABOLOMICS PROFILING OF CENTRAL NERVOUS SYSTEM INJURY                  (73) London Health Sciences Centre Research Inc.                  (74) J.M.H. Duyver lic.                  (31) 201562135886 P                  (32) 20.03.2015                  (33) United States of America                  (47) 03.11.2021  <hr/>                 (51) G01N 33/487                  G01N 21/88                  G01N 33/48                  G01N 15/02                  G01N 21/00                  G01N 15/14                  G01N 21/23                  G01N 21/45                  G01N 15/10                  (11) EP3292406</p>
---	--	---

(21) EP16789422.9	PARK, Hyun Wook	VACANTI, David C.
(22) 05.05.2016	(74) dr. W.A.H.M. Van Borm	(74) ir. W.J.J.M. Kempes
(54) INTERFEROMETRIC SYSTEM AND METHOD FOR USE WITH BIOLOGICAL CELLS AND ORGANISMS INCLUDING SPERM	(31) 20130167785 (32) 30.12.2013 (33) Korea (Republic) (47) 17.11.2021	(31) 201715670764 (32) 07.08.2017 (33) United States of America (47) 29.12.2021
(73) Technology Innovation Momentum Fund (Israel) Limited Partnership	(51) G01S 3/789 G01S 17/89 G03B 15/00 G03B 17/17 G01C 11/02 (11) EP3657195 (21) EP19218789.6 (22) 08.10.2015	(51) G01S 15/89 G01S 7/534 G01S 15/32 (11) EP3362817 (21) EP17790085.9 (22) 02.04.2017
(72) BALBERG, Michal GIRSHOVITZ, Pinhas MIRSKY, Simcha BARNEA, Itay SHAKED, Natan Tzvi	(11) EP3657195 (21) EP19218789.6 (22) 08.10.2015	(54) MULTIMISSIION AND MULTISPECTRAL SONAR
(74) ir. H.A. Witmans c.s.	(54) AN AERIAL CAMERA SYSTEM	(73) R2Sonic, LLC
(31) 201562158073 P	(73) Spookfish Innovations Pty Ltd.	(72) STEENSTRUP, Jens
(32) 07.05.2015	(74) ir. M.F.J.M. Ketelaars c.s.	CHUN, Mark
(33) United States of America	(31) 2015901332 2014904018	HOBART, Kirk TIEMANN, Christopher
(47) 01.12.2021	(32) 14.04.2015 08.10.2014	(74) ir. C.G.C. Veldman-Dijkers
(51) G01N 33/543 G01N 15/10 G01N 33/569	(33) Australia Australia (47) 03.11.2021	(31) 201715476137 201662329631 P (32) 31.03.2017 29.04.2016
(11) EP3742164	(51) G01S 5/02 G01S 5/18 G01S 1/80 H04W 40/02	(33) United States of America United States of America (47) 01.12.2021
(21) EP20186057.4	(11) EP3252493	(51) G01T 1/16 A61N 5/10 G01T 1/29 G01T 1/20
(22) 19.09.2016	(21) EP17174101.0 (22) 01.06.2017	(11) EP2708919 (21) EP13184676.8 (22) 17.09.2013
(54) DEVICE FOR DETERMINING THE PRESENCE AND/OR AMOUNT OF TARGET MOLECULES	(54) METHOD FOR LOCATING MOBILE ELEMENTS	(54) RADIATION DETECTOR AND RADIOTHERAPY APPARATUS
(73) Canopy Biosciences, LLC	(73) Kerlink	(73) ELEKTA AB (publ.)
(72) HENNIG, Christian	(72) WYLD, Brian	(72) Allen, John Thompson, Maria Giulia Crijns, Sjoerd
(74) ir. M.F.J.M. Ketelaars c.s.	(74) ir. W.J.J.M. Kempes	(74) dr. A. Krebs
(47) 01.12.2021	(31) 1655041 (32) 02.06.2016 (33) France (47) 20.10.2021	(31) 201213622101 (32) 18.09.2012 (33) United States of America (47) 22.12.2021
(51) G01N 35/10 B01L 3/00 G01N 35/00	(51) G01S 13/00 G01S 13/87 G01S 13/95 G01S 13/52 G01S 13/02	(51) G01V 1/30 G01V 11/00 G01N 3/08 G01N 15/08 G01N 33/24
(11) EP3469380	(11) EP3548922	(11) EP3341760
(21) EP17890025.4	(21) EP17818368.7	(21) EP16747753.8
(22) 21.12.2017	(22) 30.11.2017	(22) 21.07.2016
(54) COMMON LINE SELECTOR VALVE FOR A SYSTEM	(54) HAND-HELD RADAR	(54) A METHOD FOR DETERMINING THE HYDRAULIC PERMEABILITY OF ROCKS IN A SUBSURFACE REGION
(73) Illumina, Inc.	(73) Carrier Corporation	(73) Freie Universität Berlin
(72) DREWS, Bradley Kent	(72) FULLER, Christopher Coy	(72) SHAPIRO, Serge
(74) ir. W.J.J.M. Kempes	(74) J.M.H. Duyver lic.	(74) dr. W.A.H.M. Van Borm
(31) 201704761 201715841095 201762442677 P	(31) 201662428936 P (32) 01.12.2016 (33) United States of America (47) 29.12.2021	(31) 102015216394 (32) 27.08.2015 (33) Germany (47) 08.12.2021
(32) 24.03.2017 13.12.2017 05.01.2017	(51) G01S 13/88 G01S 13/34 G01S 7/41	(51) G01V 1/40 (11) EP2880465
(33) United Kingdom United States of America United States of America	(11) EP3441785 (21) EP18186732.6 (22) 31.07.2018	(21) EP13758941.2 (22) 06.08.2013
(47) 10.11.2021	(54) SYSTEM AND METHOD FOR TRACKING A SLING LOAD AND TERRAIN WITH A RADAR ALTIMETER	
(51) G01R 33/565 G01R 33/54 G01R 33/48 G01R 33/483 G01R 33/56 G01R 33/485	(73) Honeywell International Inc.	
(11) EP3089663	(72) BURLET, Todd R. FRICK, Seth T.	
(21) EP14846738.4		
(22) 28.05.2014		
(54) MAGNETIC RESONANCE IMAGING METHOD FOR CANCELING ARTIFACTS AND UNDESIRE SIGNALS		
(73) Gachon University of Industry-Academic Cooperation Foundation		
(72) CHUNG, Jun Young		

(54) METHOD FOR RESTORING WELLBORE DATA	(32) 04.07.2013	(54) METHOD FOR DISPLAYING DATA RELATING TO AN EVENT AND ASSOCIATED SYSTEM
(73) TotalEnergies SE	(33) United States of America	(73) Opera Touch SL
(72) MASSONNAT, Gérard	(47) 22.12.2021	(72) ZATARAIN, Xavier
(74) J.M.H. Duyver lic.	(51) G02B 13/06	(74) ir. F.A. Geurts c.s.
(31) 1257648	G03B 37/04	(31) 1558693
(32) 06.08.2012	H04N 5/232	(32) 16.09.2015
(33) France	(11) EP3140689	(33) France
(47) 24.11.2021	(21) EP15723390.9	(47) 27.10.2021
(51) G02B 1/11	(22) 05.05.2015	(51) G02C 13/00
G02C 7/02	(54) METHOD FOR FORMING A PANORAMIC IMAGE	(11) EP2606395
G02B 5/28	(73) Niazi, Zakariya	(21) EP10856006.1
(11) EP2685293	(72) Niazi, Zakariya	(22) 17.08.2010
(21) EP13187908.2	(74) ir. H.J.G. Lips c.s.	(54) EYEGLASS CLEANING APPARATUS
(22) 09.12.2011	(31) 201461989136 P	(73) Parkside Optical Inc.
(54) Optical article comprising an antireflective coating with a low reflection both in the ultraviolet region and in the visible region	(32) 06.05.2014	(72) MEURRENS, Peter
(73) Essilor International	(33) United States of America	(74) ir. F.A. Geurts c.s.
(72) CADO, Hervé	(47) 22.12.2021	(47) 10.11.2021
POPHILLAT, Olivier	(51) G02B 21/00	(51) G02F 1/13
DE AYGUAVIVES, Francisco	G02B 26/06	G02F 1/133
(74) ir. W.J.J.M. Kempes	G02B 27/09	G02B 3/14
(31) 1060394	(11) EP3175278	G02C 7/08
201161541724 P	(21) EP15747186.3	(11) EP3446176
421956 P	(22) 29.07.2015	(21) EP17785529.3
(32) 10.12.2010	(54) AIRY BEAM LIGHT SHEET AND AIRY BEAM LIGHT SHEET MICROSCOPE	(22) 05.04.2017
30.09.2011	(73) University Court of The University of St Andrews	(54) SPECTACLE LENS COMPRISING A LIQUID CRYSTAL LENS WITH ENHANCED ELECTRICAL DRIVE
10.12.2010	(72) DHOLAKIA, Kishan	(73) Optica Amuka (A.A.) Ltd.
(33) France	MAZILU, Michael	(72) ROSEN, Shamir
United States of America	VETTENBURG, Tom	GRUTMAN, Itamar Haim
United States of America	PRECIADO, Miguel	YADIN, Yoav
(47) 10.11.2021	YANG, Zhengyi	VARDY, Yuval
(51) G02B 6/44	(74) ir. H.A. Witmans c.s.	HADDAD, Yariv
H02G 3/06	(31) 201413500	(74) ir. W.J.J.M. Kempes
H02G 15/007	(32) 30.07.2014	(31) 201662394770 P
(11) EP3608698	(33) United Kingdom	201662350723 P
(21) EP19190604.9	(47) 27.10.2021	201662330265 P
(22) 07.08.2019	(51) G02B 27/01	201662323708 P
(54) A GLAND FOR SECURING TUBES OR CABLES	A63F 13/53	(32) 15.09.2016
(73) Prysmian S.p.A.	G01J 1/04	16.06.2016
(74) ir. A. Blokland c.s.	G02B 6/10	02.05.2016
(31) 201800010647	G02B 6/00	17.04.2016
201800008001	F21V 8/00	(33) United States of America
(32) 28.11.2018	G02B 26/10	United States of America
09.08.2018	(11) EP3671317	United States of America
(33) Italy	(21) EP20156688.2	United States of America
Italy	(22) 19.07.2016	(47) 24.11.2021
(47) 03.11.2021	(54) COLLIMATING FIBER SCANNER DESIGN WITH INWARD POINTING ANGLES IN VIRTUAL/AUGMENTED REALITY SYSTEM	(51) G03H 1/00
(51) G02B 9/60	(73) Magic Leap, Inc.	G03H 1/04
G02F 1/01	(72) SCHUELKE, Aaron Mark	G03H 1/02
G02B 27/64	EDWIN, Lionel Ernest	G03H 1/20
G02B 13/02	YEOH, Ivan L.	G03H 1/30
H04N 5/225	(74) ir. W.J.J.M. Kempes	G03H 1/28
H04N 5/232	(31) 201562194746 P	G03H 1/22
G02B 13/00	(32) 20.07.2015	B42D 25/328
(11) EP3017338	(33) United States of America	B42D 25/29
(21) EP14819740.3	(47) 10.11.2021	(11) EP2912523
(22) 04.07.2014	(51) G02B 27/01	(21) EP12887259.5
(54) THIN DUAL-APERTURE ZOOM DIGITAL CAMERA	H04N 21/414	(22) 25.10.2012
(73) Corephotonics Ltd.	H04N 21/488	(54) PRODUCING IMAGES OF SECURITY FEATURES
(72) GOLDENBERG, Ephraim	G06F 3/01	(73) Entrust Datacard Corporation
SHABTAY, Gal	(11) EP3351007	(72) ADKINS, David, A.
(74) ir. W.J.J.M. Kempes	(21) EP16769958.6	FLITSCH, Timothy, J.
(31) 201361842987 P	(22) 16.09.2016	NUBSON, Richard, C.
		(74) J.M.H. Duyver lic.

(47) 08.12.2021	G06F 21/56	(31) 2017079332
(51) G05B 15/02	H04L 29/06	(32) 13.04.2017
(11) EP3545372	(11) EP2980662	(33) Japan
(21) EP17817421.5	(21) EP15178215.8	(47) 22.12.2021
(22) 21.11.2017	(22) 24.07.2015	(51) G05D 1/10
(54) BUILDING MANAGEMENT SYSTEM HAVING KNOWLEDGE BASE	(54) PROTECTION FOR AN AUTOMATION COMPONENT AGAINST PROGRAM MANIPULATION BY MEANS OF SIGNATURE MATCHING	G05D 1/02
(73) Carrier Corporation	(73) Siemens Aktiengesellschaft	E04H 4/16
(72) FERRARI, Alberto	(72) Schönemann, Peter	(11) EP3604712
ALESSANDRELLI, Daniele	(74) ir. M.F.J.M. Ketelaars c.s.	(21) EP19198491.3
LOVETT, Teems E.	(31) 102014214934	(22) 13.09.2017
SOFRONIS, Christos	(32) 30.07.2014	(54) POOL CLEANING ROBOT
SMITH, Fabrizio	(33) Germany	(73) Maytronics Ltd.
HIGLEY, Jason	(47) 10.11.2021	(72) WITELSON, Shay
LEONARDI, Francesco	(51) G05B 19/05	HADARI, Yair
(74) J.M.H. Duyver lic.	(11) EP3361331	REGEV, Ofer
(31) 201662425692 P	(21) EP17178816.9	GOLDENBERG, Sharon
(32) 23.11.2016	(22) 29.06.2017	(74) ir. W.J.J.M. Kempes
(33) United States of America	(54) METHOD AND APPARATUS FOR CONTROLLING AND MANAGING AN INDUSTRY PROCESS	(31) 201662393816 P
(47) 29.12.2021	(73) Kyland Technology Co., Ltd.	(32) 13.09.2016
(51) G05B 19/042	(74) ir. W.J.J.M. Kempes	(33) United States of America
(11) EP3529672	(31) 201710071585	(47) 17.11.2021
(21) EP17778203.4	(32) 09.02.2017	(51) G05D 7/06
(22) 15.09.2017	(33) China	G05D 16/00
(54) METHOD, COMMUNICATION MODULE AND SYSTEM FOR TRANSMITTING DIAGNOSIS DATA OF A FIELD DEVICE IN AN INSTALLATION FOR PROCESS AUTOMATION	(47) 03.11.2021	H04L 29/08
(73) Endress+Hauser Process Solutions AG	(51) G05D 1/00	G05B 15/02
(74) ir. W.J.J.M. Kempes	G06T 17/05	E03B 7/04
(31) 102016120108	B64D 47/08	(11) EP3195078
(32) 21.10.2016	(11) EP3435188	(21) EP15842056.2
(33) Germany	(21) EP18179526.1	(22) 17.09.2015
(47) 03.11.2021	(22) 07.01.2015	(54) WATER MANAGEMENT SYSTEM AND METHOD
(51) G05B 19/042	(54) STRUCTURE EVALUATION SYSTEM AND METHOD USING AN UNMANNED AIRCRAFT	(73) Caroma Industries Limited
E04F 10/06	(73) Pictometry International Corp.	Micas Ag
(11) EP2019346	(72) MONACO, John	(74) ir. W.J.J.M. Kempes
(21) EP08006834.9	SCHULTZ, Stephen, L.	(31) 2014903727
(22) 04.04.2008	(74) ir. F.A. Geurts c.s.	(32) 18.09.2014
(54) Marquee motor control	(31) 201461926137 P	(33) Australia
(73) Weinor GmbH & Co. KG	(32) 10.01.2014	(47) 03.11.2021
(72) Stawski, Karl-Heinz	(33) United States of America	(51) G05D 11/13
(74) J.M.H. Duyver lic.	(47) 10.11.2021	H01L 21/67
(31) 102007034729	(51) G05D 1/02	H01L 21/02
(32) 23.07.2007	A61G 5/04	B01F 3/02
(33) Germany	G08G 1/16	B01F 3/04
(47) 22.12.2021	B60T 7/00	B01F 15/00
(51) G05B 19/042	B60Q 1/50	(11) EP3539149
E06B 9/262	B60Q 1/52	(21) EP17869604.3
E06B 9/322	B60Q 9/00	(22) 09.11.2017
(11) EP2673447	B60T 7/22	(54) SYSTEMS AND METHOD FOR GENERATING A CONDUCTIVE LIQUID COMPRISING DEIONIZED WATER WITH AMMONIA GAS DISSOLVED THEREIN
(21) EP12744329.9	B60W 30/14	(73) MKS Instruments, Inc.
(22) 06.02.2012	B60W 50/14	(72) BRAMMER, Ulrich, Alfred
(54) ARCHITECTURAL OPENING COVERINGS AND METHODS	(11) EP3611591	SEIWERT, Johannes
(73) Hunter Douglas Inc.	(21) EP18784824.7	LE TIEC, Christiane
(72) BAUGH, James	(22) 03.04.2018	(74) dr. A. Krebs
(74) ir. M.F.J.M. Ketelaars c.s.	(54) METHOD FOR CONTROLLING AN ELECTRICALLY DRIVEN VEHICLE AND ELECTRICALLY DRIVEN VEHICLE CONTROLLED WITH THE METHOD	(31) 201662420953 P
(31) 201161440359 P	(73) Panasonic Corporation	(32) 11.11.2016
(32) 07.02.2011	(72) UEMATSU, Hiroyuki	(33) United States of America
(33) United States of America	ANDO, Takeshi	(47) 05.01.2022
(47) 08.12.2021	IMAOKA, Noriaki	(51) G05F 1/563
(51) G05B 19/042	(74) ir. W.J.J.M. Kempes	G05F 1/571
G05B 19/05		G05F 1/565
G06F 21/55		G05F 1/567
G06F 21/52		G05F 1/575
		G05F 1/577
		G05F 1/595

(11) EP3346352	Dinh, Richard	KANG, Kyung-a
(21) EP17211092.6	Pakula, David	LEE, Geun-ho
(22) 29.12.2017	Heley, Richard	SEO, Joon-kyu
(54) ELECTRONIC FUNCTIONAL GROUP	(74) ir. A.R. Aalbers	KUMAR, Nipun
(73) Krohne Messtechnik GmbH	(31) 794529	(74) ir. M.F.J.M. Ketelaars c.s.
(74) ir. W.J.J.M. Kempes	325625 P	(31) 20120102929
(31) 102017100125	325786 P	(32) 17.09.2012
(32) 04.01.2017	300780 P	(33) Korea (Republic)
(33) Germany	(32) 04.06.2010	(47) 17.11.2021
(47) 03.11.2021	19.04.2010	<hr/>
(51) G05F 3/24	19.04.2010	(51) G06F 3/041
G11C 5/14	02.02.2010	G06F 3/044
(11) EP3455694	(33) United States of America	H01L 27/32
(21) EP17796527.4	United States of America	(11) EP3472693
(22) 05.04.2017	United States of America	(21) EP16905086.1
(54) APPARATUS FOR DATA RETENTION	United States of America	(22) 17.06.2016
AND SUPPLY NOISE MITIGATION	(47) 29.12.2021	(54) TOUCH DISPLAY SUBSTRATE, TOUCH
USING CLAMPS	(51) G06F 1/3206	DISPLAY APPARATUS HAVING THE
(73) INTEL Corporation	G06F 1/3212	SAME, PIXEL ARRANGEMENT, AND
(72) THAPLOO, Anupama A.	G06Q 10/00	FABRICATING METHOD THEREOF
MEINERZHAGEN, Pascal A.	G06F 11/30	(73) Beijing BOE Optoelectronics Technology
KIM, Stephen T.	G01R 22/06	Co., Ltd.
KHELLAH, Muhammad M.	H04W 52/02	BOE Technology Group Co., Ltd.
(74) ir. W.J.J.M. Kempes	(11) EP3193179	(72) LIU, Yingming
(31) 201615151402	(21) EP15833490.4	CHEN, Xiaochuan
(32) 10.05.2016	(22) 19.01.2015	WANG, Haisheng
(33) United States of America	(54) ELECTRIC QUANTITY DETECTION	YANG, Shengji
(47) 17.11.2021	METHOD AND APPARATUS,	ZHAO, Weijie
<hr/>	TERMINAL AND STORAGE MEDIUM	DONG, Xue
(51) G05G 1/08	(73) Sanechips Technology Co., Ltd.	XUE, Hailin
(11) EP2942691	(72) ZHOU, Xinfu	LIU, Wei
(21) EP15163373.2	YU, Xiang	LI, Changfeng
(22) 13.04.2015	(74) dr. A. Krebs	WANG, Pengpeng
(54) A GRIP FOR A MANOEUVRING	(31) 201410419097	DING, Xiaoliang
ORGAN, AND A MANOEUVRING	(32) 22.08.2014	(74) ir. W.J.J.M. Kempes
ORGAN COMPRISING THE GRIP	(33) China	(47) 15.12.2021
(73) Simol S.P.A.	(47) 24.11.2021	<hr/>
(72) Righetti, Valter	(51) G06F 3/01	(51) G06F 3/0484
(74) ir. F.A. Geurts c.s.	A61B 5/11	G04G 9/00
(31) RE20140039	A61F 4/00	(11) EP3175344
(32) 18.04.2014	G09B 5/06	(21) EP15730925.3
(33) Italy	H04N 7/18	(22) 07.06.2015
(47) 10.11.2021	G06N 20/00	(54) CONTEXT-SPECIFIC USER
<hr/>	A61B 5/369	INTERFACES
(51) G06F 1/16	G02B 27/00	(73) Apple Inc.
(11) EP3191913	A61B 5/398	(72) GUZMAN, Aurelio
(21) EP15760169.1	(11) EP3490449	DYE, Alan, C.
(22) 07.09.2015	(21) EP17833647.5	YANG, Lawrence, Y.
(54) METHOD FOR OBTAINING AN	(22) 23.05.2017	LYNCH, Kevin
ELECTRONIC DEVICE HOUSING	(54) SYSTEM AND METHOD FOR AIDING	WILSON, Eric, Lance
PANEL AND CORRESPONDING	COMMUNICATION	IVE, Jonathan, P.
HOUSING, DEVICE AND APPARATUS	(73) Tata Consultancy Services Limited	KARUNAMUNI, Chanaka, G.
(73) InterDigital CE Patent Holdings	(74) dr. ir. G.J.C. Verdijck c.s.	SABATELLI, Alessandro
(72) AUBIN, Anthony	(31) 201621025832	CHEN, Kevin, Will
LE FOULGOC, Jean-Marc	(32) 28.07.2016	SCHMITT, Brian
(74) ir. M.F.J.M. Ketelaars c.s.	(33) India	WILSON, Christopher
(31) 1458602	(47) 03.11.2021	KOCIENDA, Kenneth
(32) 12.09.2014	<hr/>	MARI, Pedro
(33) France	(51) G06F 3/01	CHAUDHRI, Imran
(47) 01.12.2021	G06F 3/14	BUTCHER, Gary, Ian
<hr/>	G06F 3/048	(74) J.M.H. Duyver lic.
(51) G06F 1/16	G06F 1/16	(31) 201562129835 P
(11) EP3279762	(11) EP2895937	201462044994 P
(21) EP17177098.5	(21) EP13838025.8	201462032562 P
(22) 24.09.2010	(22) 17.09.2013	(32) 07.03.2015
(54) HANDHELD DEVICE ENCLOSURE	(54) FLEXIBLE DISPLAY APPARATUS AND	02.09.2014
(73) Apple Inc.	CONTROL METHOD THEREOF	02.08.2014
(72) Myers, Scott	(73) Samsung Electronics Co., Ltd.	(33) United States of America
Stagnaro, Adam	(72) LEE, Yong-yeon	United States of America
Theobald, Matthew		United States of America
Tan, Tang		

(47) 05.01.2022	G06F 9/50	(72) ATARAS, Bill
(51) G06F 3/14	G06F 8/60	(74) ir. M.F.J.M. Ketelaars c.s.
H04N 21/4363	H04L 12/26	(31) 201514984292
G09G 5/00	H04L 12/24	(32) 30.12.2015
(11) EP3745249	H04L 29/12	(33) United States of America
(21) EP20166254.1	H04L 12/46	(47) 17.11.2021
(22) 27.03.2020	H04L 29/08	(51) G06F 13/16
(54) LINK BANDWIDTH IMPROVEMENT	(11) EP3405878	G11C 13/00
TECHNIQUES	(21) EP16886801.6	(11) EP3545422
(73) INTEL Corporation	(22) 30.12.2016	(21) EP17768552.6
(72) KABIRY, Ziv	(54) VIRTUAL NETWORK, HOT SWAPPING,	(22) 30.08.2017
ANSARI, Nausheen	HOT SCALING, AND DISASTER	(54) SCALABLE BANDWIDTH NON-
(74) ir. W.J.J.M. Kempes	RECOVERY FOR CONTAINERS	VOLATILE MEMORY
(31) 201916413410	(73) Equinix, Inc.	(73) Intel Corporation
(32) 15.05.2019	(74) ir. J.D. de Zeeuw	(72) SUNDARAM, Rajesh
(33) United States of America	(31) 201615392820	FAZIO, Albert
(47) 08.12.2021	201615228471	KAU, Derchang
(51) G06F 8/36	201615223740	QAWAMI, Shekoufeh
H04L 29/06	201662332385 P	(74) ir. W.J.J.M. Kempes
(11) EP3563250	201662286259 P	(31) 201615281006
(21) EP17887864.1	(32) 28.12.2016	(32) 29.09.2016
(22) 27.12.2017	04.08.2016	(33) United States of America
(54) TECHNOLOGIES FOR SECURELY	29.07.2016	(47) 22.12.2021
EXTENDING CLOUD SERVICE APIS IN	05.05.2016	(51) G06F 13/38
A CLOUD SERVICE MARKETPLACE	22.01.2016	G06F 13/10
(73) Ingram Micro Inc.	(33) United States of America	G06F 13/16
(72) KHAEROV, Aleksandr	United States of America	G06F 13/42
ZATSEPIN, Vladimir	United States of America	(11) EP3716088
GREBENSCHIKOV, Vladimir	United States of America	(21) EP20161950.9
KUZKIN, Maxim	United States of America	(22) 10.03.2020
(74) ir. H.A. Witmans c.s.	(47) 03.11.2021	(54) TECHNOLOGIES FOR FLEXIBLE
(31) 201615393354	(51) G06F 9/455	PROTOCOL ACCELERATION
(32) 29.12.2016	G06F 9/50	(73) INTEL Corporation
(33) United States of America	G06F 9/38	(72) Adiletta, Matthew J.
(47) 17.11.2021	(11) EP3172664	Mirza, Salma
(51) G06F 9/30	(21) EP15825094.4	Niell, Jose
G06F 15/80	(22) 24.07.2015	Galbi, Duane
G06F 9/345	(54) A SYSTEM CONVERTER THAT	Duggan, William
(11) EP3394723	IMPLEMENTS A RUN AHEAD	Willis, Thomas E.
(21) EP16879667.0	RUN TIME GUEST INSTRUCTION	Burres, Bradley
(22) 18.11.2016	CONVERSION/DECODING PROCESS	Kumar, Amit
(54) INSTRUCTIONS AND LOGIC FOR	AND A PREFETCHING PROCESS	Li, Yadong
LANE-BASED STRIDED SCATTER	WHERE GUEST CODE IS PRE-	(74) ir. W.J.J.M. Kempes
OPERATIONS	FETCHED FROM THE TARGET	(31) 201916366496
(73) Intel Corporation	OF GUEST BRANCHES IN AN	(32) 27.03.2019
(72) OULD-AHMED-VALL, Elmoustapha	INSTRUCTION SEQUENCE	(33) United States of America
(74) ir. W.J.J.M. Kempes	(73) INTEL Corporation	(47) 17.11.2021
(31) 201514977443	(72) ABDALLAH, Mohammad	(51) G06F 15/16
(32) 21.12.2015	(74) ir. W.J.J.M. Kempes	H04L 12/58
(33) United States of America	(31) 201514807353	H04L 29/12
(47) 01.12.2021	201462029383 P	(11) EP3256954
(51) G06F 9/451	(32) 23.07.2015	(21) EP16749596.9
G06F 3/0481	25.07.2014	(22) 29.01.2016
(11) EP2610724	(33) United States of America	(54) CENTRALIZED VALIDATION OF EMAIL
(21) EP12155813.4	United States of America	SENDERS VIA EHLO NAME AND IP
(22) 16.02.2012	(47) 08.12.2021	ADDRESS TARGETING
(54) A system and method for online user	(51) G06F 12/084	(73) Valimail Inc.
assistance	G06F 12/0873	(72) GOLDSTEIN, Peter, Martin
(73) Tata Consultancy Services Limited	G06F 8/65	(74) ir. M.F.J.M. Ketelaars c.s.
(72) Saravanan., Rajesh	G06F 8/656	(31) 201562116409 P
Patri., Vinay Kumar	G06F 16/957	(32) 14.02.2015
(74) drs. C.M.A. Quintelier	(11) EP3398047	(33) United States of America
(31) 3675MU2011	(21) EP16882282.3	(47) 01.12.2021
(32) 27.12.2011	(22) 08.12.2016	(51) G06F 16/51
(33) India	(54) PROVIDING ROLLING UPDATES OF	(11) EP3416072
(47) 05.01.2022	DISTRIBUTED SYSTEMS WITH A	(21) EP18187796.0
(51) G06F 9/455	SHARED CACHE	(22) 29.06.2007
	(73) Roku, Inc.	

(54) SYSTEM AND METHOD FOR MANAGING IMAGES OVER A NETWORK	(74) ir. A.R. Aalbers (31) 20095489 20085836	(22) 06.04.2017
(73) Leica Biosystems Imaging Inc.	(32) 30.04.2009	(54) METHOD AND DEVICE FOR PLANNING AND/OR CONTROLLING AND/OR SIMULATING THE OPERATION OF A CONSTRUCTION MACHINE
(74) ir. A.R. Aalbers (31) 770499 806441 P	(33) Finland Finland	(73) Liebherr-Werk Biberach GmbH
(32) 28.06.2007	(47) 27.10.2021	(72) BRAMBERGER, Robert
(30.06.2006	(51) G06K 7/10	(74) ir. M.F.J.M. Ketelaars c.s.
(33) United States of America United States of America	(11) EP3611651	(31) 102016004382
(47) 03.11.2021	(21) EP19202870.2	(32) 08.04.2016
(51) G06F 21/32	(22) 31.10.2018	(33) Germany
G06F 3/01	(54) DIRECT PART MARKING SCANNERS INCLUDING DOME DIFFUSERS WITH EDGE ILLUMINATION ASSEMBLIES	(47) 24.11.2021
G06K 9/00	(73) Hand Held Products, Inc.	(51) G06Q 10/08
G06Q 30/02	(72) OUYANG, Yunxin	G06K 7/10
G02B 27/01	FENG, Chen	(11) EP3631711
(11) EP3779740	REN, Jie	(21) EP18724918.0
(21) EP20197270.0	LI, Hui	(22) 24.05.2018
(22) 17.03.2017	(74) ir. W.J.J.M. Kempes	(54) MANAGEMENT OF LARGE NUMBER OF RFID TAGS IN CRYOGENIC CONTAINER
(54) HEAD MOUNTED DISPLAY SYSTEM CONFIGURED TO EXCHANGE BIOMETRIC INFORMATION	(31) 201715798852	(73) Viking Genetics FmbA
(73) Magic Leap, Inc.	(32) 31.10.2017	(72) ZHANG, Shuai
(72) KAEHLER, Adrian	(33) United States of America	MIKKELSEN, Jan, Hvolgaard
(74) ir. W.J.J.M. Kempes	(47) 29.12.2021	PEDERSEN, Gert, Frølund
(31) 201662311745 P	(51) G06K 9/00	SHEN, Ming
(32) 22.03.2016	(11) EP3236390	FRANEK, Ondrej
(33) United States of America	(21) EP17167102.7	KIM, Dong, Min
(47) 08.12.2021	(22) 19.04.2017	(74) ir. W.J.J.M. Kempes
(51) G06F 21/36	(54) ELECTRONIC DEVICE SUPPORTING FINGERPRINT VERIFICATION AND METHOD FOR OPERATING THE SAME	(31) 17172795
G06F 21/62	(73) Samsung Electronics Co., Ltd	(32) 24.05.2017
(11) EP3594839	(72) LEE, Kwang Sub	(33) European Patent Office (EPO)
(21) EP19154935.1	JANG, Se Young	(47) 10.11.2021
(22) 31.01.2019	CHO, Chi Hyun	(51) G06Q 20/32
(54) ENCRYPTED GALLERY MANAGEMENT SYSTEM AND IMPLEMENTATION METHOD THEREOF	SONG, Kyung Hoon	G06Q 20/34
(73) Chuang, Lien Hao	JIN, Yun Jang	G06F 21/53
(72) Chuang, Lien Hao	CHO, Gyu Sang	H04W 12/08
(74) ir. J.H. de Hoog	(74) ir. M.F.J.M. Ketelaars c.s.	G06Q 20/42
(31) 107124362	(31) 20170031042	H04L 29/06
(32) 13.07.2018	20160047727	G06Q 20/02
(33) Taiwan, Province of China	(32) 13.03.2017	G06Q 20/40
(47) 20.10.2021	19.04.2016	H04L 29/08
(51) G06F 21/44	(33) Korea (Republic)	H04L 9/32
G06F 21/81	Korea (Republic)	H04W 12/12
G06F 21/85	(47) 24.11.2021	(11) EP3243176
(11) EP3680797	(51) G06K 9/00	(21) EP16700867.1
(21) EP19151564.2	G06K 9/62	(22) 08.01.2016
(22) 14.01.2019	(11) EP3537338	(54) METHOD OF PROCESSING A TRANSACTION FROM A COMMUNICATION TERMINAL
(54) TAMPER-PROOF DATA PROCESSING APPARATUS	(21) EP19154230.7	(73) Ingenico Group
(73) MUSE Electronics GmbH	(22) 29.01.2019	(72) QUENTIN, Pierre
(72) LECHNER, Philipp	(54) METHOD AND SYSTEM FOR PATTERN RECOGNITION IN A SIGNAL USING MORPHOLOGY AWARE SYMBOLIC REPRESENTATION	BLANCHET, Jean-Bernard
ZACH, Gerald	(73) Tata Consultancy Services Limited	(74) ir. W.J.J.M. Kempes
(74) ir. M.F.J.M. Ketelaars c.s.	(74) dr. ir. G.J.C. Verdijck c.s.	(31) 1551240
(47) 27.10.2021	(31) 201821008463	1550193
(51) G06F 21/62	(32) 07.03.2018	1550192
G06Q 10/10	(33) India	1550191
G16H 10/60	(47) 03.11.2021	(32) 13.02.2015
(11) EP2338125	(51) G06Q 10/06	09.01.2015
(21) EP09811159.4	G06Q 50/08	09.01.2015
(22) 07.09.2009	G09B 9/04	09.01.2015
(54) MONITORING SYSTEM	G09B 19/16	(33) France
(73) Suomen Terveystalo Oy	(11) EP3437036	France
(72) PARVINEN, Arvi	(21) EP17717322.6	France
PARVINEN, Lasse		(47) 01.12.2021
		(51) G06T 5/00

G06T 5/20	(33) United States of America	(33) United States of America
G06T 5/50	(47) 29.12.2021	United States of America
(11) EP3600026	(51) G06T 7/00	(47) 27.10.2021
(21) EP18774771.2	G06T 7/529	(51) G07C 13/00
(22) 20.03.2018	H04N 13/261	H04L 9/32
(54) IMPROVING QUALITY OF MEDICAL IMAGES USING MULTI-CONTRAST AND DEEP LEARNING	(11) EP3447722	(11) EP3249616
(73) The Board of Trustees of the Leland Stanford Junior University	(21) EP16899162.8	(21) EP15878324.1
(72) ZAHARCHUK, Greg	(22) 05.09.2016	(22) 21.01.2015
PAULY, John, M.	(54) TWO-DIMENSIONAL IMAGE DEPTH-OF-FIELD GENERATING METHOD AND DEVICE	(54) AN ELECTRONIC VOTING METHOD AND SYSTEM IMPLEMENTED IN A PORTABLE DEVICE
GONG, Enhao	(73) Shenzhen Skyworth-RGB Electronic Co., Ltd.	(73) Correa Parker, Cesar Ramón Juan
(74) ir. W.J.J.M. Kempes	(72) XU, Yaoling	(72) Correa Parker, Cesar Ramón Juan
(31) 201715475760	(74) dr. W.A.H.M. Van Borm	(74) ir. W.J.J.M. Kempes
(32) 31.03.2017	(31) 201610244073	(47) 03.11.2021
(33) United States of America	(32) 19.04.2016	(51) G08B 13/196
(47) 17.11.2021	(33) China	(11) EP3563359
(51) G06T 5/00	(47) 17.11.2021	(21) EP16828987.4
G06T 5/50	(51) G06T 7/55	(22) 30.12.2016
(11) EP3624050	G06T 7/246	(54) A METHOD AND A SYSTEM FOR PROVIDING PRIVACY ENABLED SURVEILLANCE IN A BUILDING
(21) EP19204480.8	(11) EP3602494	(73) ABB Schweiz AG
(22) 08.12.2016	(21) EP17764699.9	(72) VARDHAN, Sriharsha
(54) METHOD AND MODULE FOR REFOCUSING AT LEAST ONE PLENOPTIC VIDEO	(22) 23.08.2017	NADIG, Girish
(73) InterDigital CE Patent Holdings	(54) ROBUST MESH TRACKING AND FUSION BY USING PART-BASED KEY FRAMES AND PRIORI MODEL	SUDARSAN, Sithu Dhamodharan
(72) PEREZ, Patrick	(73) Sony Group Corporation	(74) ir. W.J.J.M. Kempes
ALLIE, Valerie	(72) ZHANG, Qing	(47) 01.12.2021
HELLIER, Pierre	(74) ir. W.J.J.M. Kempes	(51) G09G 5/00
(74) ir. M.F.J.M. Ketelaars c.s.	(31) 201715653363	G11B 20/00
(31) 15307023	(32) 18.07.2017	G11B 20/12
(32) 16.12.2015	(33) United States of America	H04N 5/40
(33) European Patent Office (EPO)	(47) 12.01.2022	H04N 5/445
(47) 24.11.2021	(51) G07C 5/00	H04N 5/77
(51) G06T 7/00	G07C 5/08	H04N 9/804
(11) EP3132419	G01C 17/38	H04N 5/783
(21) EP15720834.9	G01C 21/16	H04N 5/232
(22) 14.04.2015	G01F 23/296	H04N 7/01
(54) SYSTEMS AND METHODS FOR IMAGE-BASED OBJECT MODELING USING MULTIPLE IMAGE ACQUISITIONS OR RECONSTRUCTIONS	(11) EP2836790	H04N 5/915
(73) HeartFlow, Inc.	(21) EP13775283.8	H04N 5/455
(72) SCHAAP, Michiel	(22) 12.04.2013	(11) EP3275179
GRADY, Leo	(54) METHOD AND SYSTEM FOR RECORDING AND TRANSMITTING DATA FROM A MOBILE ASSET	(21) EP16715180.2
(74) ir. W.J.J.M. Kempes	(73) WI-Tronix, LLC	(22) 17.03.2016
(31) 201414254491	(72) MATTA, LISA A.	(54) DEVICE AND METHOD FOR PROCESSING VIDEO DATA
(32) 16.04.2014	JORDAN, LAWRENCE B., Jr.	(73) Qualcomm Incorporated
(33) United States of America	(74) ir. W.J.J.M. Kempes	(72) BHUVANAGIRI, Aditya
(47) 29.12.2021	(31) 201261624142 P	KURAPATY, Rajeshwar
(51) G06T 7/00	(32) 13.04.2012	DODDI, R.V. Jagannadha Rao
(11) EP3654281	(33) United States of America	KORLEPARA, Aravind
(21) EP19209284.9	(47) 27.10.2021	GUPTE, Ajit Deepak
(22) 14.11.2019	(51) G07C 9/00	BAJAJ, Ashish
(54) DEEP LEARNING FOR ARTERIAL ANALYSIS AND ASSESSMENT	(11) EP3637376	(74) ir. M.F.J.M. Ketelaars c.s.
(73) General Electric Company	(21) EP19200648.4	(31) 201514670146
(72) LI, Xia	(22) 16.08.2013	(32) 26.03.2015
MILLER, James Vradenburg	(54) WIRELESS READER SYSTEM	(33) United States of America
EDIC, Peter Michael	(73) Schlage Lock Company LLC	(47) 05.01.2022
WANG, Xin	(72) FOCKE, Gabriel Daniel	(51) G10D 3/04
PACK, Jed Douglas	HENNEY, Michael Scott	G10D 1/08
VENUGOPAL, Prem	BAUMGARTE, Joseph Wayne	(11) EP3213319
(74) ir. M.F.J.M. Ketelaars c.s.	AHEARN, John Robert	(21) EP15804558.3
(31) 201816192551	(74) J.M.H. Duyver lic.	(22) 30.10.2015
(32) 15.11.2018	(31) 201261684110 P	(54) DETACHABLE BRIDGE FOR STRINGED INSTRUMENT
	(32) 16.08.2012	(73) Brain, Archibald Ian Jeremy
	16.08.2012	(72) Brain, Archibald Ian Jeremy
		(74) ir. H.J.G. Lips c.s.
		(31) 201419480

(32) 31.10.2014	(74) ir. M.F.J.M. Ketelaars c.s.	ZHOU, Yao
(33) United Kingdom	(31) 20100101305	WANG, Tao
(47) 29.12.2021	(32) 18.10.2010	(74) ir. H.Th. van den Heuvel c.s.
(51) G10D 3/18	(33) Korea (Republic)	(31) 201610815185
(11) EP3547304	(47) 01.12.2021	(32) 09.09.2016
(21) EP18164042.6	(51) G10L 21/0388	(33) China
(22) 26.03.2018	G10L 25/90	(47) 27.10.2021
(54) HOLDING DEVICE FOR A CHIN REST FOR A STRINGED INSTRUMENT	(11) EP3598446	(51) G11C 29/02
(73) Gustav Pirazzi & Comp. GmbH & Co. KG	(21) EP1917198.8	G11C 7/10
(72) KORFKER, Berent	(22) 15.01.2010	G11C 29/12
(74) dr. A. Krebs	(54) CROSS PRODUCT ENHANCED HARMONIC TRANSPOSITION	G11C 29/42
(47) 20.10.2021	(73) Dolby International AB	(11) EP3649645
(51) G10L 19/008	(72) VILLEMOES, Lars	(21) EP18724395.1
(11) EP2489037	HEDELIN, Per	(22) 24.04.2018
(21) EP10766275.1	(74) J.M.H. Duyver lic.	(54) DOUBLE DATA RATE SYNCHRONOUS DYNAMIC RANDOM ACCESS MEMORY ("DDR SDRAM") DATA STROBE SIGNAL CALIBRATION
(22) 15.10.2010	(31) 14522309 P	(73) Qualcomm Incorporated
(54) APPARATUS, METHOD AND COMPUTER PROGRAM FOR PROVIDING ADJUSTED PARAMETERS	(32) 16.01.2009	(72) MUKHERJEE, Sanku
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	(33) United States of America	GAMINI, Lakshmi Neeharika
(72) HERRE, Jürgen	(47) 22.12.2021	(74) ir. M.F.J.M. Ketelaars c.s.
FALCH, Cornelia	(51) G10L 25/93	(31) 201715640855
TERENTIV, Leon	(11) EP3352169	(32) 03.07.2017
(74) ir. F.A. Geurts c.s.	(21) EP18156608.4	(33) United States of America
(31) 369256 P	(22) 05.09.2014	(47) 29.12.2021
252298 P	(54) UNVOICED DECISION FOR SPEECH PROCESSING	(51) G16H 10/00
10171459	(73) Huawei Technologies Co., Ltd.	A61B 5/30
(32) 30.07.2010	(72) GAO, Yang	A61B 5/316
16.10.2009	(74) ir. W.J.J.M. Kempes	A61B 5/00
30.07.2010	(31) 201414476547	(11) EP3340872
(33) United States of America	201361875198 P	(21) EP16838658.9
United States of America	(32) 03.09.2014	(22) 26.08.2016
European Patent Office (EPO)	09.09.2013	(54) METHOD AND APPARATUS FOR WIDE-BAND PHASE GRADIENT SIGNAL ACQUISITION
(47) 10.11.2021	(33) United States of America	(73) Analytics For Life Inc.
(51) G10L 19/008	United States of America	(72) RAMCHANDANI, Shyamal
(11) EP3360134	(47) 08.12.2021	CRAWFORD, Don
(21) EP16778366.1	(51) G11C 7/22	CANAVAN, Kristine
(22) 07.10.2016	G11C 29/02	GUPTA, Sunny
(54) LAYERED CODING AND DATA STRUCTURE FOR COMPRESSED HIGHER-ORDER AMBISONICS SOUND OR SOUND FIELD REPRESENTATIONS	G11C 29/12	BURTON, Timothy
(73) Dolby International AB	G06F 13/16	(74) dr. W.A.H.M. Van Borm
(72) KORDON, Sven	H03L 7/081	(31) 201662354668 P
KRUEGER, Alexander	(11) EP3394856	201662340410 P
(74) J.M.H. Duyver lic.	(21) EP16879804.9	201562210427 P
(31) 201662361863 P	(22) 23.11.2016	201562210426 P
15306591	(54) FLEXIBLE DLL (DELAY LOCKED LOOP) CALIBRATION	(32) 24.06.2016
(32) 13.07.2016	(73) Intel Corporation	23.05.2016
08.10.2015	(72) SUNDARAM, Rajesh	26.08.2015
(33) United States of America	QAWAMI, Shekoufeh	26.08.2015
European Patent Office (EPO)	ALLEN, Michael	(33) United States of America
(47) 01.12.2021	(74) ir. W.J.J.M. Kempes	United States of America
(51) G10L 19/07	(31) 201514998185	United States of America
(11) EP3029670	(32) 26.12.2015	United States of America
(21) EP16150075.6	(33) United States of America	United States of America
(22) 18.10.2011	(47) 17.11.2021	(47) 20.10.2021
(54) DETERMINING A WEIGHTING FUNCTION HAVING LOW COMPLEXITY FOR LINEAR PREDICTIVE CODING COEFFICIENTS QUANTIZATION	(51) G11C 16/28	(51) G16H 20/30
(73) Samsung Electronics Co., Ltd.	(11) EP3485494	G16H 20/60
(72) SUNG, Ho Sang	(21) EP17849334.2	A61B 5/00
OH, Eun Mi	(22) 29.08.2017	A61B 5/145
	(54) IMPROVED SENSE AMPLIFIER WITH BIT LINE PRE-CHARGE CIRCUIT FOR READING FLASH MEMORY CELLS IN AN ARRAY	G16H 40/63
	(73) Silicon Storage Technology, Inc.	(11) EP3434184
	(72) SHENG, Bin	(21) EP18194753.2
	GUO, Lu	(22) 16.03.2015
	BAI, Ning	(54) GLYCEMIC URGENCY ASSESSMENT AND ALERTS INTERFACE
	QIAN, Xiaozhou	(73) DexCom, Inc.
		(72) Garcia, Arturo

Rack-Gomer, Anna Leigh Grubstein, Katherine Yerre Kramer, Paul Bhavaraju, Naresh C. Bowman, Leif N. Kamath, Apurv Ullas Draeger, Rian Noble-Campbell, Paul Hampapuram, Hari Reihman, Eli (74) dr. ir. F.M. van Bouwelen (31) 201461978151 P (32) 10.04.2014 (33) United States of America (47) 27.10.2021	(33) United Kingdom (47) 22.12.2021 (51) H01L 21/67 H01L 21/683 H05K 13/08 H05K 13/04 B65G 47/91 H05K 13/02 B65G 47/84 (11) EP3685429 (21) EP18768799.1 (22) 31.08.2018 (54) DEVICE FOR ALIGNMENT AND OPTICAL INSPECTION OF A SEMICONDUCTOR DEVICE (73) Muehlbauer GmbH & Co. KG (72) HOLZNER, Benjamin AUGST, Franz Uwe (74) J.M.H. Duyver lic. (31) 102017008869 (32) 21.09.2017 (33) Germany (47) 27.10.2021	(72) Munro, Richard Major, Tatiana Pankova Bosboom, Jeroen (74) ir. M.F.J.M. Ketelaars c.s. (31) 201615380783 (32) 15.12.2016 (33) United States of America (47) 27.10.2021 (51) H01L 21/768 H01L 39/24 (11) EP3688796 (21) EP18749196.4 (22) 25.06.2018 (54) FABRICATION OF APPARATUS INCLUDING SUPERCONDUCTING WIRING LAYERS AND INTERCONNECTS (73) Microsoft Technology Licensing, LLC (72) TUCKERMAN, David B. ROUSE, Richard P. (74) J.M.H. Duyver lic. (31) 201715715521 (32) 26.09.2017 (33) United States of America (47) 22.12.2021
(51) G16H 50/20 G16H 40/63 G06F 3/01 G06T 7/00 G06K 9/00 A61B 6/00 G06T 7/73 G16H 30/40 (11) EP2834775 (21) EP13731880.4 (22) 05.04.2013 (54) METHOD AND SYSTEM FOR ASSISTING THE VISUAL EXPLORATION OF AN IMAGE DURING A TARGET SEARCH (73) SR Labs S.R.L. (74) J.M.H. Duyver lic. (31) FI20120072 (32) 05.04.2012 (33) Italy (47) 03.11.2021	(73) Muehlbauer GmbH & Co. KG (72) HOLZNER, Benjamin AUGST, Franz Uwe (74) J.M.H. Duyver lic. (31) 102017008869 (32) 21.09.2017 (33) Germany (47) 27.10.2021 (51) H01L 21/68 H01L 21/687 G03F 7/20 H01L 21/67 G03F 7/00 B29C 59/02 B29C 59/00 B29C 43/02 H01L 21/677 (11) EP3535781 (21) EP17868146.6 (22) 27.09.2017 (54) SUBSTRATE LOADING SYSTEM (73) Molecular Imprints, Inc. (72) PATTERSON, Roy AHAMED, Yaseer, A. (74) ir. W.J.J.M. Kempes (31) 201662416916 P (32) 03.11.2016 (33) United States of America (47) 05.01.2022	(72) TUCKERMAN, David B. ROUSE, Richard P. (74) J.M.H. Duyver lic. (31) 201715715521 (32) 26.09.2017 (33) United States of America (47) 22.12.2021 (51) H01L 27/146 (11) EP3637468 (21) EP19208733.6 (22) 17.03.2016 (54) SOLID-STATE IMAGE SENSOR, IMAGING DEVICE, AND ELECTRONIC EQUIPMENT (73) Sony Group Corporation (72) KATO, Nanako OTAKE, Yusuke TANAKA, Yusuke WAKANO, Toshifumi (74) ir. W.J.J.M. Kempes (31) 2015072981 (32) 31.03.2015 (33) Japan (47) 29.12.2021
(51) G21C 3/322 G21C 7/117 G21C 7/20 G21C 9/02 G21C 3/33 (11) EP3563387 (21) EP17832890.2 (22) 29.12.2017 (54) CONTROL ROD DAMPING SYSTEM (73) NuScale Power, LLC (72) SNUGGERUD, Ross Douglas (74) ir. J.D. de Zeeuw (31) 201662441038 P (32) 30.12.2016 (33) United States of America (47) 17.11.2021	(73) Muehlbauer GmbH & Co. KG (72) HOLZNER, Benjamin AUGST, Franz Uwe (74) J.M.H. Duyver lic. (31) 102017008869 (32) 21.09.2017 (33) Germany (47) 27.10.2021 (51) H01L 21/68 H01L 21/687 (11) EP2824698 (21) EP13757808.4 (22) 04.03.2013 (54) SUSCEPTOR (73) Toyo Tanso Co., Ltd. (72) SASAKI, Seisyu (74) J.M.H. Duyver lic. (31) 2012050029 (32) 07.03.2012 (33) Japan (47) 15.12.2021	(72) KATO, Nanako OTAKE, Yusuke TANAKA, Yusuke WAKANO, Toshifumi (74) ir. W.J.J.M. Kempes (31) 2015072981 (32) 31.03.2015 (33) Japan (47) 29.12.2021 (51) H01L 27/146 H01L 31/02 H04N 5/355 H04N 5/374 H04N 9/07 (11) EP3576152 (21) EP18745307.1 (22) 17.01.2018 (54) SOLID-STATE IMAGE-CAPTURE ELEMENT AND ELECTRONIC DEVICE (73) Sony Semiconductor Solutions Corporation (72) SUZUKI Ryoji (74) ir. W.J.J.M. Kempes (31) 2017014312 (32) 30.01.2017 (33) Japan (47) 29.12.2021
(51) H01J 37/32 C23C 16/509 (11) EP3794628 (21) EP19787352.4 (22) 01.10.2019 (54) PLASMA PROCESSING TOOL (73) Oxford Instruments Nanotechnology Tools Limited (72) PROUDFOOT, Gary O'MAHONY, Aileen COOKE, Mike WATERS, Gareth PETER, Annika (74) J.M.H. Duyver lic. (31) 201816059 (32) 02.10.2018	(73) Muehlbauer GmbH & Co. KG (72) HOLZNER, Benjamin AUGST, Franz Uwe (74) J.M.H. Duyver lic. (31) 102017008869 (32) 21.09.2017 (33) Germany (47) 27.10.2021 (51) H01L 21/683 H01L 21/687 B25J 15/06 B25J 15/00 (11) EP3336882 (21) EP17207617.6 (22) 15.12.2017 (54) APPARATUS, SYSTEM AND METHOD FOR PROVIDING A CONFORMABLE VACUUM CUP FOR END EFFECTOR (73) Jabil Inc.	(72) KATO, Nanako OTAKE, Yusuke TANAKA, Yusuke WAKANO, Toshifumi (74) ir. W.J.J.M. Kempes (31) 2015072981 (32) 31.03.2015 (33) Japan (47) 29.12.2021 (51) H01L 27/146 H04N 5/341 H04N 5/32 H04N 5/3745 (11) EP3369247 (21) EP16782329.3 (22) 22.09.2016

(54) DIGITAL READOUT ARCHITECTURE FOR FOUR SIDE BUTTABLE DIGITAL X-RAY DETECTOR	07.03.2014 (33) Korea (Republic) Korea (Republic)	(21) EP19172930.0 (22) 07.05.2019 (54) CATHODE MATERIAL, METHOD FOR PREPARING THE SAME, CATHODE AND LITHIUM ION BATTERY
(73) General Electric Company	(47) 29.12.2021	(73) Ningde Amperex Technology Limited
(72) YANOFF, Brian David	(51) H01L 29/788	(72) WANG, Liang
KOUADA, Ibrahim Issoufou	H01L 29/423	CHEN, Pengwei
JACOB, Biju	H01L 27/11524	WANG, Meng
GUO, Jianjun	H01L 21/28	CHEN, Pengwei
SHORT, Jonathan David	H01L 29/66	(74) dr. A. Krebs
(74) ir. M.F.J.M. Ketelaars c.s.	H01L 27/11556	(31) 201810426425
(31) 201514923812	(11) EP3087605	(32) 07.05.2018
(32) 27.10.2015	(21) EP14875254.6	(33) China
(33) United States of America	(22) 24.11.2014	(47) 08.12.2021
(47) 29.12.2021	(54) MEMORY STRUCTURE WITH SELF-ALIGNED FLOATING AND CONTROL GATES AND ASSOCIATED METHODS	(51) H01M 4/86
(51) H01L 27/146	(73) Intel Corporation	H01M 4/88
H04N 5/369	(72) HOPKINS, John D.	H01M 4/92
(11) EP3618116	SIMSEK-EGE, Fatma A.	H01M 8/1018
(21) EP18792040.0	(74) ir. W.J.J.M. Kempes	(11) EP3465806
(22) 13.02.2018	(31) 201314140215	(21) EP17727323.2
(54) SOLID-STATE IMAGING ELEMENT AND ELECTRONIC MACHINE	(32) 24.12.2013	(22) 25.05.2017
(73) Sony Semiconductor Solutions Corporation	(33) United States of America	(54) CATALYST
(72) NAKAGAWA, Haruyuki	(47) 05.01.2022	(73) Johnson Matthey Fuel Cells Limited
(74) ir. W.J.J.M. Kempes	(51) H01L 31/0232	(72) SHARMAN, Jonathan David Brereton
(31) 2017090536	G02B 19/00	MARTINEZ BONASTRE, Alejandro
(32) 28.04.2017	F24S 23/79	SPIKES, Geoffrey
(33) Japan	(11) EP3403031	(74) ir. W.J.J.M. Kempes
(47) 10.11.2021	(21) EP17738278.5	(31) 201609151
(51) H01L 27/30	(22) 09.01.2017	(32) 25.05.2016
H01L 27/12	(54) OPTIMIZED STATIC RADIATION COLLECTOR	(33) United Kingdom
H01L 51/44	(73) Solight Ltd	(47) 17.11.2021
H01L 51/42	(72) BECKER, Ofer	(51) H01M 10/0525
(11) EP3338309	(74) ir. H.A. Witmans c.s.	H01M 10/0567
(21) EP16837691.1	(31) 24360116	H01M 10/0569
(22) 16.08.2016	(32) 13.01.2016	(11) EP3799184
(54) METHOD OF MANUFACTURING AN IMAGE SENSOR DEVICE	(33) Israel	(21) EP20150380.2
(73) DPIX, LLC	(47) 10.11.2021	(22) 06.01.2020
(72) RODRIQUEZ, Robert	(51) H01L 31/042	(54) AN ELECTROLYTE AND A BATTERY WITH SAID ELECTROLYTE
PARK, Byung-Kyu	(11) EP2833416	(73) High Tech Battery Inc.
O'ROURKE, Shawn Michael	(21) EP13768783.6	(72) WANG, Kuei yung
(74) J. Hoekstra	(22) 18.03.2013	(74) ir. H.A. Witmans c.s.
(31) 201615237447	(54) BACK CONTACT SOLAR CELL MODULE	(31) 201962904828 P
201562283881 P	(73) DSM Advanced Solar B.V.	(32) 24.09.2019
201562283091 P	(72) AKENO Yasutake	(33) United States of America
(32) 15.08.2016	YAMAMOTO Mayumi	(47) 22.12.2021
14.09.2015	OKUBO Toru	(51) H01R 9/03
20.08.2015	KAWASAKI Minoru	H01R 13/514
(33) United States of America	KUDO Shigeki	H01R 13/648
United States of America	NISHIZAWA Tomo	H01R 43/16
United States of America	MATSUMASA Kenji	H01R 43/24
(47) 10.11.2021	(74) ir. W.J.J.M. Kempes	H01R 107/00
(51) H01L 27/32	(31) 2012258021	H01R 13/6592
H01L 51/00	2012080915	(11) EP3262725
H01L 51/52	(32) 26.11.2012	(21) EP16708622.2
(11) EP2916358	30.03.2012	(22) 24.02.2016
(21) EP15157973.7	(33) Japan	(54) SHIELDED ELECTRIC CONNECTOR
(22) 06.03.2015	Japan	(73) Phoenix Contact GmbH & Co. KG
(54) Display device and method of manufacturing the same	(47) 10.11.2021	(72) DOBER, Kathrin
(73) Samsung Display Co., Ltd.	(51) H01M 4/04	STARKE, Cord
(72) KIM, Yangwan	H01M 4/525	TÜNKER, Manuel
KWAK, Won-Kyu	H01M 10/42	NOLTING, Daniel
(74) ir. H.A. Witmans c.s.	H01M 4/1391	REIMCHEN, Valeri
(31) 20140063822	H01M 10/0525	MÜHLENBERND, André
20140027428	H01M 4/02	(31) 102015102703
(32) 27.05.2014	(11) EP3567656	(32) 25.02.2015
		(33) Germany

(47) 05.01.2022	H02J 13/00	(33) Germany
(51) H01R 13/625	(11) EP3707798	(47) 20.10.2021
H01R 13/629	(21) EP18833653.1	(51) H02K 1/14
H01R 24/00	(22) 20.12.2018	(11) EP3241267
H01R 13/703	(54) METHOD FOR REGULATING	(21) EP16747072.3
H01R 13/71	ELECTRIC POWER TRANSFER AND	(22) 02.02.2016
H01R 24/86	POWER NETWORK	(54) MOTOR HAVING NON-CIRCULAR
H01R 13/213	(73) Siemens Aktiengesellschaft	STATOR
(11) EP3646413	(72) NIESSEN, Stefan	(73) Persimmon Technologies Corporation
(21) EP18749455.4	THIEM, Sebastian	(72) KRISHNASAMY, Jayaraman
(22) 26.06.2018	CHAPOTARD, Victor	HOSEK, Martin
(54) ELECTRICAL CONNECTION	(74) ir. M.F.J.M. Ketelaars c.s.	POOLE, Dennis
MOUNT COMPRISING A MOVABLE	(31) 18154173	(74) J.M.H. Duyver lic.
CONNECTION ELEMENT, ADDITIONAL	(32) 30.01.2018	(31) 201562110752 P
ELECTRICAL CONNECTION MOUNT,	(33) European Patent Office (EPO)	(32) 02.02.2015
AND ASSEMBLY COMPRISING SUCH	(47) 10.11.2021	(33) United States of America
MOUNTS	(51) H02J 7/00	(47) 27.10.2021
(73) Marechal Electric	B60L 53/60	(51) H02K 1/14
(74) ir. H.A. Witmans c.s.	B60L 53/63	B62D 5/04
(31) 1755814	B60L 55/00	H02K 21/16
(32) 26.06.2017	H02J 7/04	H02K 29/03
(33) France	(11) EP3598603	(11) EP3509187
(47) 03.11.2021	(21) EP19183943.0	(21) EP17846952.4
(51) H02G 3/08	(22) 14.09.2012	(22) 29.08.2017
H02G 3/12	(54) CHARGING DEVICE, SYSTEM, AND	(54) STATOR, AND MOTOR COMPRISING
(11) EP3355425	METHOD FOR CONTROLLING A	SAME
(21) EP17153932.3	CHARGING DEVICE	(73) LG Innotek Co., Ltd.
(22) 31.01.2017	(73) General Electric Company	(72) WOO, Shung Hun
(54) ASSEMBLY OF AN INSTALLATION	(72) HOOKER, John Kenneth	PYEON, Jin Su
BOX AND ELECTRIC INSTALLATION	(74) ir. W.J.J.M. Kempes	(74) dr. W.A.H.M. Van Borm
MATERIAL, INSTALLATION BOX AND	(31) 201113242238	(31) 20170013935
AIRTIGHT INSERT	(32) 23.09.2011	20160114086
(73) ABB Schweiz AG	(33) United States of America	(32) 31.01.2017
(72) Renckens, Tom	(47) 27.10.2021	05.09.2016
(74) ir. F.A. Geurts c.s.	(51) H02J 7/35	(33) Korea (Republic)
(47) 20.10.2021	(11) EP3364517	Korea (Republic)
(51) H02J 3/00	(21) EP18157183.7	(47) 15.12.2021
(11) EP3682517	(22) 16.02.2018	(51) H02K 3/04
(21) EP18773855.4	(54) METHOD FOR ENSURING THE	H02K 3/26
(22) 11.09.2018	AVAILABILITY OF ADEQUATE ENERGY	H02K 15/04
(54) METHOD FOR ESTIMATING THE	RESERVES IN AN INTELLIGENT	H02K 15/06
TOPOLOGY OF AN ELECTRIC POWER	APPARATUS	H01F 41/04
NETWORK USING METERING DATA	(73) ABB Schweiz AG	(11) EP3695488
(73) DEPsys SA	(72) Gebhardt, Jörg	(21) EP18799878.6
(72) ALIZADEH-MOUSAVI, Omid	Mendoza, Francisco	(22) 10.10.2018
JATON, Joël	Rodenbusch-Mohr, Thomas	(54) ELECTROMAGNETIC MAT FOR A
(74) dr. A. Krebs	Kaul, Holger	STATOR OR ROTOR COMPONENT OF
(31) 17190611	Kruse, Jörn	AN ELECTRIC MACHINE
(32) 12.09.2017	Sosale, Guruprasad	(73) Alva Industries AS
(33) European Patent Office (EPO)	Ahrend, Ulf	(72) SELNES, Jörgen
(47) 17.11.2021	(74) ir. W.J.J.M. Kempes	(74) dr. W.A.H.M. Van Borm
(51) H02J 3/00	(31) 102017103260	(31) 20171616
G06F 1/18	(32) 17.02.2017	(32) 11.10.2017
G06F 1/26	(33) Germany	(33) Norway
G06F 1/30	(47) 17.11.2021	(47) 10.11.2021
(11) EP3314738	(51) H02J 9/00	(51) H02K 21/24
(21) EP16815496.1	G01D 4/00	H02K 1/27
(22) 27.06.2016	G01R 31/382	H01F 7/02
(54) POWER DISTRIBUTION SYSTEM	(11) EP3598606	(11) EP3602743
(73) Bersiek, Shamel, A.	(21) EP19176262.4	(21) EP18714561.0
(72) Bersiek, Shamel, A.	(22) 23.05.2019	(22) 21.03.2018
(74) ir. M.F.J.M. Ketelaars c.s.	(54) DETECTION OF THE OPERATING	(54) MAGNET STRUCTURE WITH A
(31) 201562185397 P	HOURS OF AN ELECTRICAL DEVICE	PLURALITY OF SINGLE MAGNETS IN
(32) 26.06.2015	(73) Siemens Schweiz AG	THE FORM OF BLOCKS
(33) United States of America	(72) Hoch, Peter	(73) Whylot SAS
(47) 01.12.2021	(74) ir. M.F.J.M. Ketelaars c.s.	(72) RAVAUD, Romain
(51) H02J 3/46	(31) 102018211864	MIHAILA, Vasile
	(32) 17.07.2018	MAYEUR, Loic

- TIEGNA, Huguette  
(74) ir. W.J.J.M. Kempes  
(31) 1700906  
1700295  
(32) 08.09.2017  
22.03.2017  
(33) France  
France  
(47) 10.11.2021
- 
- (51) H02M 3/07  
H02M 3/335  
(11) EP3651329  
(21) EP19194109.5  
(22) 28.08.2019  
(54) SWITCHED TANK CONVERTER  
(73) Delta Electronics (Shanghai) Co., Ltd.  
(72) Zhu, Tiansheng  
Ye, Yiqing  
(74) ir. H.A. Witmans c.s.  
(31) 201811338613  
(32) 12.11.2018  
(33) China  
(47) 12.01.2022
- 
- (51) H02M 7/483  
H02M 1/36  
H02M 1/00  
H02J 9/06  
(11) EP3731392  
(21) EP19747889.4  
(22) 21.01.2019  
(54) REDUNDANT ENERGY ACQUISITION  
CIRCUIT OF POWER MODULE, AND  
CONTROL METHOD THEREOF  
(73) NR Engineering Co., Ltd.  
NR Electric Co., Ltd.  
(72) LI, Haiying  
JIANG, Tianguai  
CAO, Dongming  
XIE, Yeyuan  
ZHU, Minglian  
ZHANG, Zhongfeng  
(74) J. Hoekstra  
(31) 201810092738  
(32) 31.01.2018  
(33) China  
(47) 01.12.2021
- 
- (51) H02P 21/16  
H02P 21/14  
H02P 21/09  
H02P 23/14  
H02P 27/08  
G01R 31/34  
(11) EP3111282  
(21) EP15755832.1  
(22) 26.02.2015  
(54) MACHINE LOSS MODELING FOR  
IMPROVED FIELD ORIENTED  
CONTROL ACCURACY  
(73) BAE Systems Controls Inc.  
(72) LYONS, Arthur P.  
VOVOS, Robert J.  
(74) ir. M.F.J.M. Ketelaars c.s.  
(31) 201461946561 P  
(32) 28.02.2014  
(33) United States of America  
(47) 22.12.2021
- 
- (51) H04B 7/0456  
H04B 7/06
- H04W 28/18  
(11) EP3292638  
(21) EP16790209.7  
(22) 06.05.2016  
(54) METHOD AND APPARATUS FOR  
CHANNEL STATE INFORMATION (CSI)  
REPORTING  
(73) Onggosanusi, Eko  
Samsung Electronics Co., Ltd.  
Nam, Young-Han  
(72) ONGGOSANUSI, Eko  
NAM, Young-Han  
(74) ir. M.F.J.M. Ketelaars c.s.  
(31) 201562203172 P  
201562157828 P  
(32) 10.08.2015  
06.05.2015  
(33) United States of America  
United States of America  
(47) 10.11.2021
- 
- (51) H04B 7/185  
H04B 7/19  
H04B 7/204  
(11) EP3596846  
(21) EP18715419.0  
(22) 15.03.2018  
(54) HIGH-THROUGHPUT SATELLITE  
WITH SPARSE FIXED USER BEAM  
COVERAGE  
(73) ViaSat, Inc.  
(72) AGARWAL, Anil  
HUDSON, Erwin  
MARTIN, Remberto  
BURDICK, Clifford  
(74) ir. W.J.J.M. Kempes  
(31) 201762472093 P  
(32) 16.03.2017  
(33) United States of America  
(47) 12.01.2022
- 
- (51) H04B 10/90  
(11) EP3387764  
(21) EP16876498.3  
(22) 13.12.2016  
(54) INTERFERENCE CANCELLATION  
METHODS AND APPARATUS  
(73) Genxcomm, Inc.  
(72) VISHWANATH, Sriram  
JAIN, Hardik  
(74) ir. F.A. Geurts c.s.  
(31) 201562266701 P  
(32) 13.12.2015  
(33) United States of America  
(47) 24.11.2021
- 
- (51) H04L 1/00  
(11) EP2817907  
(21) EP12705286.8  
(22) 20.02.2012  
(54) CONTROLLING A MODULATION  
AND CODING SCHEME FOR A  
TRANSMISSION BETWEEN A BASE  
STATION AND A USER EQUIPMENT  
(73) Nokia Solutions and Networks Oy  
(72) LAHETKANGAS, Eeva  
RAAF, Bernhard  
TIIROLA, Esa Tapani  
PAJUKOSKI, Kari Pekka  
(74) dr. W.A.H.M. Van Borm  
(47) 08.12.2021
- 
- (51) H04L 1/00  
H03M 13/09  
(11) EP2015494  
(21) EP08012626.1  
(22) 11.07.2008  
(54) Methods and apparatus to compute  
CRC for multiple code blocks in a  
communication system  
(73) Samsung Electronics Co., Ltd.  
(72) Pi, Zhouyue  
Khan, Farooq  
(74) ir. M.F.J.M. Ketelaars c.s.  
(31) 76777  
929790 P  
(32) 21.03.2008  
12.07.2007  
(33) United States of America  
United States of America  
(47) 17.11.2021
- 
- (51) H04L 1/00  
H04L 5/00  
(11) EP3753142  
(21) EP19707531.0  
(22) 05.02.2019  
(54) VIRTUAL SEARCH SPACES FOR BEAM  
INDICATION  
(73) QUALCOMM INCORPORATED  
(72) JOHN WILSON, Makesh Pravin  
WANG, Xiao Feng  
CHEN, Shengbo  
NAM, Wooseok  
LUO, Tao  
ZHOU, Yan  
AKKARAKARAN, Sony  
NAGARAJA, Sumeeth  
(74) ir. M.F.J.M. Ketelaars c.s.  
(31) 201916267298  
201862710486 P  
(32) 04.02.2019  
16.02.2018  
(33) United States of America  
United States of America  
(47) 22.12.2021
- 
- (51) H04L 1/00  
H04L 27/26  
H04L 12/26  
H04L 27/01  
H04B 7/005  
G05F 1/12  
G06K 7/01  
H02J 3/01  
H04W 74/02  
(11) EP3320631  
(21) EP16825056.1  
(22) 12.07.2016  
(54) ORTHOGONAL TIME FREQUENCY  
SPACE COMMUNICATION SYSTEM  
COMPATIBLE WITH OFDM  
(73) Cohere Technologies, Inc.  
(72) RAKIB, Shlomo, Selim  
HADANI, Ronny  
(74) ir. W.J.J.M. Kempes  
(31) 201562265352 P  
201562215663 P  
201562191468 P  
(32) 09.12.2015  
08.09.2015  
12.07.2015

(33) United States of America United States of America United States of America	(32) 24.09.2007 20.08.2007	(32) 11.08.2017
(47) 27.10.2021	(33) United States of America United States of America	(33) World Intellectual Property Office (WIPO) (47) 05.01.2022
(51) H04L 1/16	(47) 24.11.2021	(51) H04L 5/00
(11) EP3700114	(51) H04L 1/20	(11) EP3509242
(21) EP20169664.8	H04L 1/18	(21) EP19150558.5
(22) 07.10.2008	(11) EP3602899	(22) 07.01.2019
(54) METHOD AND ARRANGEMENT IN A WIRELESS COMMUNICATION NETWORK	(21) EP18713231.1	(54) DEVICE AND METHOD FOR HANDLING COMMUNICATION DEVICE CAPABILITIES
(73) Unwired Planet International Limited	(22) 23.03.2018	(73) HTC Corporation
(72) MEYER, Michael	(54) DETECTION OF INCONSISTENT DATA IN A DATA TRANSMISSION	(72) WU, Chih-Hsiang
PEISA, Janne	(73) Telefonaktiebolaget LM Ericsson (Publ)	(74) ir. M.F.J.M. Ketelaars c.s.
TORSNER, Johan	(72) KITTICHOKECHAI, Kittipong	(31) 201862614485 P
(74) ir. H.A. Witmans c.s.	SHAPIN, Alexey	(32) 07.01.2018
(31) 1974608 P	SUNDBERG, Mårten	(33) United States of America
(32) 08.01.2008	WIKSTRÖM, Gustav	(47) 01.12.2021
(33) United States of America	ANDGART, Niklas	(51) H04L 5/00
(47) 01.12.2021	(74) ir. A. Blokland c.s.	(11) EP3624388
(51) H04L 1/18	(31) 201762476658 P	(21) EP19207522.4
(11) EP3240221	(32) 24.03.2017	(22) 15.06.2018
(21) EP17166398.2	(33) United States of America	(54) JOINT RESOURCE MAP DESIGN OF DM-RS AND PT-RS
(22) 13.04.2017	(47) 20.10.2021	(73) Telefonaktiebolaget LM Ericsson (publ)
(54) METHOD AND APPARATUS FOR PERFORMING HYBRID AUTOMATIC REPEAT REQUEST PROCESSES	(51) H04L 5/00	(72) MOLÉS CASES, Vicent
(73) Nokia Technologies Oy	(11) EP3051742	WERNER, Karl
(72) HUGL, Klaus	(21) EP16157075.9	LINDBOM, Lars
YAO, Chunhai	(22) 02.11.2009	WANG, Zhao
TIIROLA, Esa	(54) SOUNDING REFERENCE SIGNAL CONFIGURATION	(74) ir. M.F.J.M. Ketelaars c.s.
LUNTTILA, Timo	(73) Nokia Solutions and Networks Oy	(31) 201762521078 P
(74) dr. W.A.H.M. Van Borm	(72) Hooli, Kari Juhani	(32) 16.06.2017
(31) PCT/CN2016/080501	Tiirola, Esa Tapani	(33) United States of America
(32) 28.04.2016	Pajukoski, Kari Pekka	(47) 01.12.2021
(33) World Intellectual Property Office (WIPO)	(74) dr. W.A.H.M. Van Borm	(51) H04L 5/00
(47) 12.01.2022	(47) 22.12.2021	(11) EP3738262
(51) H04L 1/18	(51) H04L 5/00	(21) EP19704876.2
H04L 1/16	(11) EP3342087	(22) 10.01.2019
(11) EP3619858	(21) EP16806309.7	(54) ACTIVATION AND DEACTIVATION OF SEMI-PERSISTENT CSI REPORTING
(21) EP17908228.4	(22) 02.11.2016	(73) Telefonaktiebolaget LM Ericsson (publ)
(22) 05.05.2017	(54) METHOD AND APPARATUS FOR LOW LATENCY TRANSMISSIONS	(72) FAXÉR, Sebastian
(54) SCHEDULING TRANSMISSION OF DATA	(73) Motorola Mobility LLC	GAO, Shiwei
(73) Motorola Mobility LLC	(72) NIMBALKER, Ajit	MURUGANATHAN, Siva
(72) WU, Lianhai	KUCHIBHOTLA, Ravi	(74) ir. A. Blokland c.s.
YAN, Zhi	LOVE, Robert T.	(31) 201862616823 P
YU, Xiaodong	NANGIA, Vijay	(32) 12.01.2018
LEI, Haipeng	NORY, Ravikiran	(33) United States of America
(74) ir. H.A. Witmans c.s.	(74) ir. H.A. Witmans c.s.	(47) 29.12.2021
(47) 15.12.2021	(31) 201615013025	(51) H04L 5/00
(51) H04L 1/18	201562252092 P	H04B 7/26
H04L 5/00	(32) 02.02.2016	H04W 88/02
H04W 40/00	06.11.2015	H04W 72/04
H04W 52/02	(33) United States of America	H04W 74/00
H04W 88/02	United States of America	H04W 74/08
H04W 76/28	(47) 05.01.2022	H04W 80/02
(11) EP3651395	(51) H04L 5/00	(11) EP2577888
(21) EP19218163.4	(11) EP3465973	(21) EP11787167.3
(22) 19.08.2008	(21) EP18730961.2	(22) 20.05.2011
(54) SYSTEM AND METHOD FOR DRX CONTROL AND NACK/ACK	(22) 02.05.2018	(54) METHOD AND DEVICE OF WIRELESS COMMUNICATION OVER NON- CONTIGUOUS CHANNELS
(73) BlackBerry Limited	(54) METHOD FOR TRANSMITTING REFERENCE SIGNAL	(73) Intel Corporation
(72) WOMACK, James Earl	(73) Telefonaktiebolaget LM Ericsson (publ)	(72) KASHER, Assaf
CAI, Zhijun	(72) ANDGART, Niklas	TRAININ, Solomon
(74) dr. W.A.H.M. Van Borm	GERAMI, Majid	(74) ir. W.J.J.M. Kempes
(31) 97465307 P	SUNDBERG, Mårten	(31) 787825
95684507 P	ZHANG, Zhan	(32) 26.05.2010
	(74) ir. A. Blokland c.s.	(33) United States of America
	(31) PCT/CN2017/097238	

(47) 22.12.2021	(33) Japan	H04L 25/02
(51) H04L 5/00	(47) 12.01.2022	(11) EP3661102
H04L 1/00	(51) H04L 5/00	(21) EP18859301.6
H04W 72/12	H04L 27/26	(22) 30.07.2018
(11) EP3711248	H04L 1/00	(54) METHOD AND APPARATUS FOR
(21) EP18830511.4	H04W 72/12	TRANSMITTING AND RECEIVING
(22) 14.11.2018	H04W 84/12	CONTROL INFORMATION IN
(54) DOWNLINK CONTROL FOR ULTRA	H04W 88/08	WIRELESS COMMUNICATION SYSTEM
RELIABLE COMMUNICATIONS	(11) EP3694136	(73) Samsung Electronics Co., Ltd.
(73) Lenovo (Singapore) Pte. Ltd.	(21) EP20166535.3	(72) OH, Jin-young
(72) BAGHERI, Hossein	(22) 06.10.2015	PARK, Sung-jin
NANGIA, Vijay	(54) METHOD AND APPARATUS FOR	YEO, Jeong-ho
(74) ir. H.A. Witmans c.s.	TRANSMITTING DATA ON RESOURCE	KIM, Tae-hyoung
(31) 201762586084 P	UNIT INCLUDING PILOT TONE IN	(74) ir. M.F.J.M. Ketelaars c.s.
(32) 14.11.2017	WLAN	(31) 20170121320
(33) United States of America	(73) LG Electronics Inc.	(32) 20.09.2017
(47) 19.01.2022	(72) LEE, Wookbong	(33) Korea (Republic)
(51) H04L 5/00	CHO, Hangyu	(47) 15.12.2021
H04L 1/06	CHOI, Jinsoo	(51) H04L 5/00
H04B 7/06	(74) J.M.H. Duyver lic.	H04W 72/04
(11) EP3607692	(31) 201462063931 P	H04L 27/26
(21) EP18770404.4	201462060018 P	(11) EP3668001
(22) 05.04.2018	(32) 14.10.2014	(21) EP20156126.3
(54) METHOD AND APPARATUS FOR	06.10.2014	(22) 10.08.2016
CHANNEL STATE INFORMATION	(33) United States of America	(54) METHOD AND DEVICE FOR FORMING
REFERENCE SIGNAL(CSI-RS)	United States of America	CONTROL SIGNAL COMPRISING
(73) Samsung Electronics Co., Ltd.	(47) 01.12.2021	CONTROL FIELD IN WIRELESS LAN
(72) PAPASAKELLARIOU, Aris	(51) H04L 5/00	SYSTEM
ONGGOSANUSI, Eko	H04L 27/26	(73) LG Electronics Inc.
(74) ir. M.F.J.M. Ketelaars c.s.	H04W 36/00	(72) CHOI, Jinsoo
(31) 201815888838	(11) EP3619981	PARK, Eunsung
201862620732 P	(21) EP18794544.9	CHO, Hangyu
201862616371 P	(22) 03.05.2018	LIM, Dongguk
201762611350 P	(54) SYNCHRONIZATION SIGNAL	(74) J.M.H. Duyver lic.
201762583887 P	TRANSMISSION AND RECEPTION	(31) 201562202922 P
201762489832 P	FOR RADIO SYSTEM	(32) 10.08.2015
201762474398 P	(73) SHARP Kabushiki Kaisha	(33) United States of America
(32) 05.02.2018	FG INNOVATION COMPANY LIMITED	(47) 22.12.2021
23.01.2018	(72) AIBA, Tatsushi	(51) H04L 5/00
11.01.2018	NOGAMI, Toshizo	H04W 72/04
28.12.2017	SHENG, Jia	H04L 27/26
09.11.2017	(74) ir. W.J.J.M. Kempes	(11) EP3720034
25.04.2017	(31) 201762501716 P	(21) EP20171415.1
21.03.2017	(32) 04.05.2017	(22) 29.09.2017
(33) United States of America	(33) United States of America	(54) FLEXIBLE RADIO RESOURCE
United States of America	(47) 17.11.2021	ALLOCATION
United States of America	(51) H04L 5/00	(73) Motorola Mobility LLC
United States of America	H04W 72/04	(72) NANGIA, Vijay
United States of America	(11) EP3533170	KUCHIBHOTLA, Ravi
United States of America	(21) EP17794884.1	NORY, Ravikiran
United States of America	(22) 25.10.2017	LOVE, Robert Tristan
(47) 15.12.2021	(54) NEW DESIGN FOR AN UPLINK	(74) ir. H.A. Witmans c.s.
(51) H04L 5/00	CONTROL CHANNEL	(31) 201662403022 P
H04L 12/835	(73) QUALCOMM Incorporated	(32) 30.09.2016
H04W 28/08	(72) XU, Hao	(33) United States of America
H04W 28/14	CHEN, Wanshi	(47) 08.12.2021
H04W 72/12	HUANG, Yi	(51) H04L 5/00
(11) EP3122114	WANG, Renjiu	H04W 72/12
(21) EP15765750.3	(74) ir. M.F.J.M. Ketelaars c.s.	(11) EP3729710
(22) 26.02.2015	(31) 201715792375	(21) EP19704076.9
(54) USER EQUIPMENT AND UPLINK DATA	201662412691 P	(22) 08.01.2019
TRANSMISSION METHOD	(32) 24.10.2017	(54) USER DEVICE-INITIATED LOW-
(73) NTT DOCOMO, INC.	25.10.2016	LATENCY DATA TRANSMISSIONS
(72) UCHINO, Tooru	(33) United States of America	(73) Google LLC
TAKAHASHI, Hideaki	United States of America	(72) WANG, Jibing
(74) dr. ir. F.M. van Bouwelen	(47) 22.12.2021	STAUFFER, Erik Richard
(31) 2014055169	(51) H04L 5/00	(74) ir. H.A. Witmans c.s.
(32) 18.03.2014	H04W 72/04	(31) 201815939088

(32) 28.03.2018	(22) 19.09.2013	(47) 10.11.2021
(33) United States of America	(54) TECHNOLOGIES FOR	(51) H04L 12/46
(47) 10.11.2021	SYNCHRONIZING AND RESTORING	H04L 12/743
(51) H04L 9/08	REFERENCE TEMPLATES	H04L 29/08
H04L 29/06	(73) Intel Corporation	H04L 29/06
G06F 21/60	(72) Smith, Ned M.	(11) EP3675432
(11) EP3269080	(74) ir. W.J.J.M. Kempes	(21) EP19216634.6
(21) EP16762710.8	(47) 08.12.2021	(22) 16.12.2019
(22) 14.03.2016	(51) H04L 12/18	(54) INTELLIGENT AND DYNAMIC
(54) CLIENT SERVICES FOR APPLIED	(11) EP3687110	OVERLAY TUNNEL FORMATION
KEY MANAGEMENT SYSTEMS AND	(21) EP20153688.5	VIA AUTOMATIC DISCOVERY OF
PROCESSES	(22) 24.01.2020	CITRIVITY/SDWAN PEER IN THE
(73) Fometix LLC	(54) A CONFERENCE MANAGER (CM)	DATAPATH IN A PURE PLUG AND
(72) EDWARDS, Stephen	FOR LOW BANDWIDTH VIDEO	PLAY ENVIRONMENT WITH ZERO
WHITE, Charles	CONFERENCING	NETWORKING CONFIGURATION
(74) ir. M.F.J.M. Ketelaars c.s.	(73) Tata Consultancy Services Limited	(73) Citrix Systems Inc.
(31) 201662300717 P	(74) dr. ir. G.J.C. Verdijck c.s.	(72) SRIVATSAN, Karthick
201662300699 P	(31) 201921003235	NIRIKHI, Sandeep Manohar
201662300687 P	(32) 25.01.2019	SUBRAMANIYAN, Moorthi
201662300670 P	(33) India	RAMAIAH, Chaitra Maraliga
201662300521 P	(47) 03.11.2021	MEDIKERI, Anand
201662300352 P	(51) H04L 12/28	RATURI, Rajnesh
201562132379 P	E06B 9/00	(74) ir. J.D. de Zeeuw
(32) 26.02.2016	G05B 19/00	(31) 201816232451
26.02.2016	G05B 15/02	(32) 26.12.2018
26.02.2016	H04L 29/08	(33) United States of America
26.02.2016	(11) EP3679689	(47) 27.10.2021
26.02.2016	(21) EP18759346.2	(51) H04L 12/58
26.02.2016	(22) 03.09.2018	(11) EP3525163
12.03.2015	(54) METHOD OF CONFIGURATION	(21) EP17858729.1
(33) United States of America	AND/OR OF MAINTENANCE OF A	(22) 29.09.2017
United States of America	HOME-AUTOMATION SYSTEM FOR A	(54) METHOD AND SYSTEM FOR
United States of America	BUILDING AND ASSOCIATED HOME-	PROVIDING QUIZ TOGETHER WITH
United States of America	AUTOMATION SYSTEM	ADVERTISEMENT IN INSTANT
United States of America	(73) Somfy Activites SA	MESSAGE SERVICE (IMS) CHAT
United States of America	(72) FARGIER, Sylvain	ROOM
United States of America	(74) ir. M.F.J.M. Ketelaars c.s.	(73) Lee, Keun-Woo
(47) 20.10.2021	(31) 1758143	Jeon, Chang Sub
(51) H04L 9/08	(32) 04.09.2017	(72) Jeon, Chang Sub
H04L 29/08	(33) France	Lee, Keun-Woo
H04W 4/50	(47) 01.12.2021	(74) ir. A.R. Aalbers
H04W 4/70	(51) H04L 12/40	(31) 20170067051
H04W 4/80	(11) EP3777048	20160128337
H04W 84/04	(21) EP18719347.9	(32) 30.05.2017
(11) EP3637736	(22) 27.03.2018	05.10.2016
(21) EP19200844.9	(54) ELECTRONICS INCLUDING	(33) Korea (Republic)
(22) 01.10.2019	ELECTRICAL ISOLATION	Korea (Republic)
(54) METHOD AND DEVICES FOR	(73) Micro Motion Inc.	(47) 17.11.2021
COMMUNICATING BETWEEN AN	(72) SMITH, Brian T.	(51) H04L 25/03
INTERNET OF THINGS DEVICE AND A	(74) ir. M.F.J.M. Ketelaars c.s.	H04L 27/26
REMOTE COMPUTER SYSTEM	(47) 22.12.2021	(11) EP3487134
(73) Legic Identsystems AG	(51) H04L 12/46	(21) EP18210150.1
(72) GUERRERO, Sebastian	(11) EP3533189	(22) 29.01.2009
LANZ, Rolf	(21) EP17865407.5	(54) METHOD FOR TRANSMITTING AND
PLÜSS, Marcel	(22) 14.09.2017	RECEIVING PREAMBLES IN A DIGITAL
STUDERUS, Paul	(54) RULE-BASED NETWORK IDENTIFIER	VIDEO BROADCASTING SYSTEM
(74) ir. J.C. Volmer c.s.	MAPPING	(73) Samsung Electronics Co., Ltd.
(31) 12352018	(73) Avago Technologies International Sales	(72) Kwon, Hwan-Joon
(32) 09.10.2018	Pte. Limited	Jeong, Hong-Sil
(33) Switzerland	(72) JOSYULA, Ramakanth	Myung, Seho
(47) 17.11.2021	(74) ir. W.J.J.M. Kempes	Kim, Jae-Yoel
(51) H04L 9/30	(31) 201715462614	Lim, Yeon-Ju
H04L 29/06	201662414585 P	Lee, Hak-Ju
H04L 29/08	(32) 17.03.2017	Yun, Sung-Ryul
H04L 9/08	28.10.2016	(74) ir. M.F.J.M. Ketelaars c.s.
H04L 9/32	(33) United States of America	(31) 20080009295
(11) EP3611871	United States of America	20080010415
(21) EP19185285.4		20080019388

(32) 29.01.2008	(21) EP17757255.9	LANDERS, Michael
31.01.2008	(22) 24.02.2017	(74) dr. ir. G.J.C. Verdijck c.s.
29.02.2008	(54) PLATFORM FOR COMPUTING AT THE	(31) 201715856835
(33) Korea (Republic)	MOBILE EDGE	(32) 28.12.2017
Korea (Republic)	(73) INTEL Corporation	(33) United States of America
Korea (Republic)	(72) ROSS, Nicholas	(47) 27.10.2021
(47) 22.12.2021	PIKE, Robert	(51) H04L 29/08
(51) H04L 27/26	(74) ir. W.J.J.M. Kempes	G05D 1/02
(11) EP3711271	(31) 201662299673 P	(11) EP3700173
(21) EP18804575.1	(32) 25.02.2016	(21) EP20158960.3
(22) 15.11.2018	(33) United States of America	(22) 24.02.2020
(54) TECHNIQUE FOR CONFIGURING	(47) 08.12.2021	(54) DEVICE FOR REMOTE MONITORING
A PHASE TRACKING REFERENCE	(51) H04L 29/06	OF A FLEET OF AUTONOMOUS
SIGNAL	H04L 29/08	MOTOR VEHICLES, ASSOCIATED
(73) Telefonaktiebolaget LM Ericsson (Publ)	H04W 4/70	TRANSPORT SYSTEM AND CLAMPING
(72) FRENNE, Mattias	(11) EP3269116	METHOD
MOLÉS CASES, Vicent	(21) EP16762084.8	(73) Transdev Group
(74) ir. A. Blokland c.s.	(22) 19.01.2016	(72) BEAUVILLAIN, Alexis
(31) 201762587967 P	(54) INTERNET OF THINGS GROUP	(74) ir. M.F.J.M. Ketelaars c.s.
(32) 17.11.2017	FORMATION USING A KEY-BASED	(31) 1901895
(33) United States of America	JOIN PROTOCOL	(32) 25.02.2019
(47) 05.01.2022	(73) Intel Corporation	(33) France
(51) H04L 29/06	(72) SMITH, Ned M.	(47) 24.11.2021
(11) EP3745673	(74) ir. W.J.J.M. Kempes	(51) H04L 29/08
(21) EP20185343.9	(31) 201514643964	H04L 12/24
(22) 15.02.2007	(32) 10.03.2015	H04L 12/26
(54) METHOD AND SYSTEM FOR	(33) United States of America	G06F 8/65
TRANSMITTING DATA BETWEEN	(47) 08.12.2021	(11) EP3539276
NODES ATTACHED TO SEPARATE IP	(51) H04L 29/06	(21) EP17808672.4
ENVIRONMENTS BY ALLOCATION OF	H04W 12/08	(22) 10.11.2017
FICTITIOUS ADDRESSES	H04W 88/08	(54) UPDATING THE CONFIGURATION OF
(73) ORANGE	G06F 21/62	A CLOUD SERVICE
(72) NOISETTE, Yoann	(11) EP3637724	(73) Bellini, Arnold
BOUCADAIR, Mohamed	(21) EP19192977.7	Burgess, Stephen
(74) ir. W.J.J.M. Kempes	(22) 30.12.2014	Fulton, Craig M.
(31) 0650682	(54) METHOD SUPPORTING WIRELESS	Connectwise, Inc.
(32) 28.02.2006	ACCESS TO STORAGE DEVICE, AND	(74) ir. H.A. Witmans c.s.
(33) France	MOBILE ROUTING HOTSPOT DEVICE	(31) 201662421057 P
(47) 13.10.2021	(73) Huawei Device Co., Ltd.	(32) 11.11.2016
(51) H04L 29/06	(72) ZHANG, Wei	(33) United States of America
(11) EP3745674	(74) ir. W.J.J.M. Kempes	(47) 03.11.2021
(21) EP20185345.4	(31) 201310752485	(51) H04L 29/08
(22) 15.02.2007	(32) 31.12.2013	H04W 4/00
(54) METHOD AND SYSTEM FOR	(33) China	(11) EP3047633
TRANSMITTING DATA BETWEEN	(47) 24.11.2021	(21) EP14781999.9
NODES ATTACHED TO SEPARATE IP	(51) H04L 29/08	(22) 19.09.2014
ENVIRONMENTS BY ALLOCATION OF	(11) EP3457667	(54) ENHANCED M2M CONTENT
FICTITIOUS ADDRESSES	(21) EP17795597.8	MANAGEMENT BASED ON INTEREST
(73) ORANGE	(22) 12.05.2017	(73) Convida Wireless, LLC
(72) NOISETTE, Yoann	(54) METHOD, CONTROL DEVICE AND	(72) SEED, Dale, N.
BOUCADAIR, Mohamed	AGENT DEVICE FOR OPERATION OF	DONG, Lijun
(74) ir. W.J.J.M. Kempes	EQUIPMENT	WANG, Chonggang
(31) 0650682	(73) BOE Technology Group Co., Ltd.	(74) ir. W.J.J.M. Kempes
(32) 28.02.2006	(72) ZHAO, Junjie	(31) 201361880435 P
(33) France	(74) ir. W.J.J.M. Kempes	(32) 20.09.2013
(47) 13.10.2021	(31) 201610320166	(33) United States of America
(51) H04L 29/06	(32) 13.05.2016	(47) 10.11.2021
G06F 15/177	(33) China	(51) H04L 29/12
G06F 21/60	(47) 01.12.2021	G05B 19/418
H04W 12/10	(51) H04L 29/08	(11) EP3679712
H04W 4/60	(11) EP3533210	(21) EP18759347.0
H04L 12/24	(21) EP18811106.6	(22) 03.09.2018
H04W 12/03	(22) 29.10.2018	(54) METHOD OF AUTOMATIC
H04W 12/069	(54) METHOD AND DEVICE FOR	CONFIGURATION OF NETWORK
H04W 12/106	MONITORING AN OBJECT USING A	ADDRESS OF A COMMUNICATING
H04W 12/122	HUB-CLOUD PLATFORM	ELEMENT FORMING PART OF A
H04W 12/40	(73) Tionesta, LLC	HOME-AUTOMATION SYSTEM,
(11) EP3420465	(72) ARMSTRONG, Nicholas	ASSOCIATED NETWORK INTERFACE,

COMMUNICATING ELEMENT AND HOME-AUTOMATION SYSTEM	(72) TSUKAHARA, Tsubasa	H04N 13/307
(73) Somfy Activites SA	IMOTO, Maki	H04N 13/398
(72) FARGIER, Sylvain	NODA, Takuro	G02B 30/27
(74) ir. M.F.J.M. Ketelaars c.s.	KAWANA, Yousuke	G02B 30/54
(31) 1758144	NARITA, Tomoya	G02B 30/56
(32) 04.09.2017	(74) ir. W.J.J.M. Kempes	G06T 15/08
(33) France	(31) 2013001016	G09F 19/12
(47) 24.11.2021	(32) 08.01.2013	G09G 3/00
(51) H04M 1/02	(33) Japan	(11) EP3408704
H02J 7/02	(47) 29.12.2021	(21) EP17744712.5
H02J 7/00	(51) H04N 5/232	(22) 19.01.2017
(11) EP3520379	G03B 15/00	(54) DISPLAY FOR THREE-DIMENSIONAL IMAGE
(21) EP17857142.8	G03B 15/05	(73) Magic Leap, Inc.
(22) 30.08.2017	G03B 17/02	(74) ir. W.J.J.M. Kempes
(54) FABRIC DEVICE FOR CHARGING	H04N 5/225	(31) 201662343767 P
(73) Intel Corporation	H04N 9/07	201662343722 P
(72) AINSWORTH, Lucas, B.	H04N 9/04	201662288680 P
(74) ir. W.J.J.M. Kempes	H04N 17/00	(32) 31.05.2016
(31) 201615282560	(11) EP3767938	31.05.2016
(32) 30.09.2016	(21) EP18909382.6	29.01.2016
(33) United States of America	(22) 14.03.2018	(33) United States of America
(47) 08.12.2021	(54) IMAGE-CAPTURING UNIT AND COMPONENT-MOUNTING DEVICE	United States of America
(51) H04M 15/00	(73) Fuji Corporation	United States of America
H04W 4/24	(72) KOTANI, Kazuya	(47) 03.11.2021
H04L 12/14	GOTO, Hidenori	(51) H04N 19/164
H04L 29/08	(74) ir. M.F.J.M. Ketelaars c.s.	H04N 19/162
H04L 12/26	(47) 15.12.2021	H04N 21/60
H04L 29/12	(51) H04N 7/14	H04N 21/20
(11) EP3518565	H04N 7/18	(11) EP2601789
(21) EP19160071.7	G08B 13/196	(21) EP11741736.0
(22) 21.07.2014	(11) EP2624544	(22) 03.08.2011
(54) SYSTEM AND METHOD FOR APPORTIONING SMART DEVICE OPERATIONS AND COSTS	(21) EP12199099.8	(54) SIGNALING ATTRIBUTES FOR NETWORK-STREAMED VIDEO DATA
(73) Mobility View Inc.	(22) 21.12.2012	(73) Qualcomm Incorporated
(72) DAMSTRA, Thom	(54) Video telephony system and control method thereof	(72) CHEN, Ying
(74) ir. W.J.J.M. Kempes	(73) Samsung Electronics Co., Ltd	KARCZEWICZ, Marta
(31) 201361856720 P	(72) Choi, Woo-Young	CHEN, Peisong
(32) 21.07.2013	(74) ir. M.F.J.M. Ketelaars c.s.	(74) ir. M.F.J.M. Ketelaars c.s.
(33) United States of America	(31) 20120011276	(31) 201113154247
(47) 13.10.2021	(32) 03.02.2012	201113154285
(51) H04N 1/44	(33) Korea (Republic)	371125 P
(11) EP3537701	(47) 17.11.2021	(32) 06.06.2011
(21) EP19160868.6	(51) H04N 9/31	06.06.2011
(22) 05.03.2019	(11) EP3688983	05.08.2010
(54) INFORMATION PROCESSING APPARATUS, IMAGE FORMING APPARATUS, IMAGE PROCESSING SYSTEM, IMAGE PROCESSING METHOD, AND PROGRAM	(21) EP18786135.6	(33) United States of America
(73) Ricoh Company, Ltd.	(22) 24.09.2018	United States of America
(72) Iida, Hirokazu	(54) SYSTEM AND METHOD FOR DISPLAYING HIGH QUALITY IMAGES IN A DUAL MODULATION PROJECTION SYSTEM	United States of America
(74) ir. H.A. Witmans c.s.	(73) Dolby Laboratories Licensing Corporation	(47) 22.12.2021
(31) 2018043629	Dolby International AB	(51) H04N 19/42
(32) 09.03.2018	(72) RICHARDS, Martin J.	H04N 19/82
(33) Japan	PERTIERRA, Juan P.	H04N 19/80
(47) 22.12.2021	LE BARBENCHON, Clement	H04N 19/136
(51) H04N 5/225	ORLICK, Christopher John	H04N 19/182
H04N 5/232	PIRES ARRIFANO, Angelo M.	H04N 19/117
G06F 3/041	(74) J.M.H. Duyver lic.	(11) EP3313075
(11) EP2945364	(31) 201762562937 P	(21) EP17205955.2
(21) EP13870589.2	17192946	(22) 28.05.2012
(22) 15.11.2013	(32) 25.09.2017	(54) IMAGE PROCESSING DEVICE, IMAGE PROCESSING METHOD
(54) DISPLAY CONTROL DEVICE, PROGRAM, AND DISPLAY CONTROL METHOD	25.09.2017	(73) Sony Group Corporation
(73) Sony Group Corporation	(33) United States of America	(72) Ikeda, Masaru
	European Patent Office (EPO)	(74) ir. W.J.J.M. Kempes
	(47) 08.12.2021	(31) 2012009326
	(51) H04N 13/32	2011243839
	H04N 13/393	2011240550
		2011143461
		(32) 19.01.2012

07.11.2011	09.04.2010	(51) H04W 4/40
01.11.2011	13.08.2010	H04L 29/06
28.06.2011	20.12.2010	(11) EP3769549
(33) Japan	13.01.2011	(21) EP19715292.9
Japan	21.03.2011	(22) 18.03.2019
Japan	22.03.2011	(54) METHOD AND SYSTEM FOR
Japan	(33) Korea (Republic)	ONBOARD EQUIPMENT MISBEHAVIOR
(47) 29.12.2021	United States of America	DETECTION REPORT ROUTING
(51) H04N 19/503	United States of America	(73) QUALCOMM INCORPORATED
(11) EP3661208	United States of America	(72) PALANIGOUNDER, Anand
(21) EP20151522.8	United States of America	HAWKES, Philip Michael
(22) 20.03.2015	United States of America	VANDERVEEN, Michaela
(54) USING A CURRENT PICTURE AS A	United States of America	MISENER, James Alan
REFERENCE FOR VIDEO CODING	(47) 29.12.2021	(74) ir. M.F.J.M. Ketelaars c.s.
(73) Qualcomm Incorporated	(51) H04W 4/02	(31) 201916355593
(72) PANG, Chao	H04W 24/08	201862645666 P
LI, Xiang	H04W 64/00	(32) 15.03.2019
WANG, Ye-Kui	G01S 5/00	20.03.2018
CHEN, Ying	H04B 1/709	(33) United States of America
(74) ir. M.F.J.M. Ketelaars c.s.	(11) EP3335439	United States of America
(31) 201514663155	(21) EP16835597.2	(47) 29.12.2021
201462000437 P	(22) 15.07.2016	(51) H04W 4/70
201461969022 P	(54) SYSTEM AND METHOD OF TIME OF	H04W 52/02
(32) 19.03.2015	FLIGHT DETECTION	H04W 68/02
19.05.2014	(73) Star Ally International Limited	(11) EP3240339
21.03.2014	(72) Hua, Wensheng	(21) EP15878415.7
(33) United States of America	(74) ir. A. Blokland c.s.	(22) 23.01.2015
United States of America	(31) 201514826128	(54) PAGING METHODS, BASE STATION
United States of America	(32) 13.08.2015	AND PAGING SYSTEM
(47) 22.12.2021	(33) United States of America	(73) Huawei Technologies Co., Ltd.
(51) H04N 19/51	(47) 20.10.2021	(72) XIONG, Xin
H04N 19/70	(51) H04W 4/02	YU, Yinghui
(11) EP3700215	H04W 74/08	(74) ir. W.J.J.M. Kempes
(21) EP20169963.4	H04W 72/02	(47) 24.11.2021
(22) 27.06.2012	H04W 72/04	(51) H04W 8/00
(54) ENCODING METHOD, DECODING	(11) EP3332598	H04W 88/04
METHOD, STORAGE APPARATUS AND	(21) EP16745135.0	H04W 36/30
TRANSFER APPARATUS	(22) 15.07.2016	H04W 40/12
(73) Kabushiki Kaisha Toshiba	(54) SHARED RADIO ACCESS CHANNEL	H04W 40/22
(72) CHUJOH, Takeshi	BY A MOBILE DEVICE USING ITS	H04B 7/26
TANIZAWA, Akiyuki	POSITION INFORMATION	H04W 76/14
(74) ir. H.A. Witmans c.s.	(73) Nokia Technologies Oy	H04W 76/23
(47) 27.10.2021	(72) KOVACS, Istvan	(11) EP3243360
(51) H04N 19/52	SORET, Beatriz	(21) EP16701642.7
H04N 19/61	(74) dr. W.A.H.M. Van Borm	(22) 26.01.2016
(11) EP2557796	(31) 201514819656	(54) COMMUNICATIONS DEVICES,
(21) EP11766196.7	(32) 06.08.2015	INFRASTRUCTURE EQUIPMENT,
(22) 08.04.2011	(33) United States of America	AND METHODS FOR SELECTING
(54) METHOD AND APPARATUS FOR	(47) 05.01.2022	A RELAY IN DEVICE-TO-DEVICE
PROCESSING VIDEO SIGNAL	(51) H04W 4/08	COMMUNICATION
(73) LG Electronics Inc.	H04W 88/02	(73) Sony Group Corporation
(72) CHOI, Younghee	H04W 74/08	(72) TSUDA, Shinichiro
SUNG, Jaewon	H04W 72/00	WAKABAYASHI, Hideji
LIM, Jaehyun	(11) EP3139643	MARTIN, Brian Alexander
PARK, Joonyoung	(21) EP16191630.9	(74) ir. W.J.J.M. Kempes
PARK, Seungwook	(22) 18.11.2010	(31) 15154751
KIM, Jungsun	(54) DEVICE, SYSTEM AND METHOD OF	(32) 11.02.2015
JEON, Yongjoon	SIMULTANEOUSLY COMMUNICATING	(33) European Patent Office (EPO)
JEON, Byeongmoon	WITH A GROUP OF WIRELESS	(47) 29.12.2021
(74) J.M.H. Duyver lic.	COMMUNICATION DEVICES	(51) H04W 12/04
(31) 20110032376	(73) INTEL Corporation	H04W 8/22
322301 P	(72) GONG, Michelle	H04W 8/00
373286 P	STACEY, Robert	H04W 84/12
424681 P	(74) ir. W.J.J.M. Kempes	H04W 92/18
432202 P	(31) 642818	(11) EP3273712
454995 P	(32) 20.12.2009	(21) EP15885583.3
466446 P	(33) United States of America	(22) 30.11.2015
(32) 07.04.2011	(47) 08.12.2021	

(54) INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, AND PROGRAM	KIM, Soenghun (74) ir. M.F.J.M. Ketelaars c.s. (31) 20170007159	United States of America (47) 22.12.2021
(73) Sony Group Corporation	(32) 16.01.2017	(51) H04W 36/00 H04W 36/06
(72) YAMAURA, Tomoya SUZUKI, Hideyuki IWAMI, Hideki	(33) Korea (Republic) (47) 22.12.2021	H04W 36/08 H04B 7/0408 H04B 7/06
(74) ir. W.J.J.M. Kempes	(51) H04W 16/10 H04W 72/04	H04B 7/08
(31) 2015053512	H04W 72/12	H04B 7/024
(32) 17.03.2015	H04L 5/00	(11) EP3456092
(33) Japan	H04L 5/14	(21) EP17718792.9
(47) 29.12.2021	(11) EP3624478	(22) 13.04.2017
(51) H04W 12/041 H04W 12/043 H04W 36/00	(21) EP17925003.0 (22) 14.09.2017	(54) BEAM MEASUREMENT IN A WIRELESS COMMUNICATION NETWORK FOR IDENTIFYING CANDIDATE BEAMS FOR A HANDOVER
(11) EP3643100	(54) METHOD, DEVICE, STORAGE MEDIUM, AND SYSTEM FOR DETERMINING TIME DOMAIN RESOURCE	(73) Intel Corporation
(21) EP18743903.9	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(72) YIU, Candy MOON, Sungho TANG, Yang
(22) 23.06.2018	(72) TANG, Hai	(74) ir. W.J.J.M. Kempes
(54) METHOD AND APPARATUS FOR IMPLEMENTING BEARER SPECIFIC CHANGES AS PART OF A CONNECTION RECONFIGURATION THAT IMPACTS THE SECURITY KEYS BEING USED	(74) dr. W.A.H.M. Van Borm (47) 29.12.2021	(31) 201662336487 P (32) 13.05.2016
(73) Motorola Mobility LLC	(51) H04W 16/10 H04W 72/12	(33) United States of America
(72) KUCHIBHOTLA, Ravi LOHR, Joachim BASU MALLICK, Prateek	(11) EP2471294 (21) EP10812290.4	(47) 15.12.2021
(74) ir. H.A. Witmans c.s.	(22) 26.08.2010	(51) H04W 36/00 H04W 36/14
(31) 201762543817 P 201762524379 P	(54) SYSTEM AND METHOD FOR EFFICIENT INDICATION OF DISTRIBUTED SUB-BAND RESOURCES	(11) EP2863682 (21) EP13805027.3 (22) 14.06.2013
(32) 10.08.2017 23.06.2017	(73) Samsung Electronics Co., Ltd.	(54) METHOD OF SELECTING PUBLIC LAND MOBILE NETWORK FOR NETWORK SHARING
(33) United States of America United States of America	(72) RAMAKRISHNA, Sudhir	(73) Samsung Electronics Co., Ltd.
(47) 29.12.2021	(74) ir. M.F.J.M. Ketelaars c.s. (31) 855533	(72) CHO, Song Yean JEONG, Sang Soo LIM, Han Na
(51) H04W 12/10 H04W 12/033 H04W 12/02 H04W 4/70 H04W 4/00 H04W 84/18	(31) 292761 P 275425 P (32) 12.08.2010 06.01.2010 28.08.2009	(74) ir. M.F.J.M. Ketelaars c.s. (31) 201261659623 P (32) 14.06.2012 (33) United States of America
(11) EP3130168	(33) United States of America	(47) 22.12.2021
(21) EP15717048.1	United States of America	(51) H04W 36/12 H04W 36/22
(22) 31.03.2015	United States of America	(11) EP3328126
(54) METHODS FOR ENCODING AND DECODING FRAMES IN A TELECOMMUNICATION NETWORK	(47) 17.11.2021	(21) EP18150680.9 (22) 15.08.2007
(73) Actility	(51) H04W 36/00 H04B 1/713 H04W 24/10 H04L 5/00	(54) TRANSFERRING A USER EQUIPMENT IN MOBILE COMMUNICATION SYSTEM
(72) HERSENT, Olivier	(11) EP3662699	(73) HUAWEI TECHNOLOGIES CO., LTD.
(74) J.M.H. Duyver lic.	(21) EP18758787.8	(72) SUN, Ying LI, Qingyu GUO, Xiaolong
(31) 1453141	(22) 30.07.2018	(74) ir. W.J.J.M. Kempes
(32) 09.04.2014	(54) RADIO RESOURCE MANAGEMENT AND RADIO LINK MONITORING FOR ENHANCED MACHINE TYPE COMMUNICATION IN SHARED SPECTRUM	(31) 200610115390 (32) 15.08.2006 (33) China
(33) France	(73) QUALCOMM Incorporated	(47) 24.11.2021
(47) 10.11.2021	(72) YERRAMALLI, Srinivas LIU, Chih-Hao KADOUS, Tamer	(51) H04W 40/02 H04L 12/823 H04B 7/155 H04W 84/18
(51) H04W 12/12 H04W 12/033 H04W 80/02 H04W 4/70 H04L 1/18	(74) ir. M.F.J.M. Ketelaars c.s. (31) 201816046868 201762539449 P	(11) EP3342063 (21) EP16791757.4 (22) 26.10.2016
(11) EP3556085	(32) 26.07.2018 31.07.2017	
(21) EP18739277.4	(33) United States of America	
(22) 16.01.2018		
(54) METHOD AND APPARATUS FOR PROCESSING DATA IN A WIRELESS COMMUNICATION SYSTEM		
(73) Samsung Electronics Co., Ltd.		
(72) KIM, Donggun		

(54) WIRELESS AD HOC NETWORK COMMUNICATIONS USING LINEAR NETWORK CODING	(22) 21.02.2012	JOHN WILSON, Makesh Pravin
(73) Motorola Mobility LLC	(54) METHOD OF EFFICIENTLY TRANSMITTING A USER EQUIPMENT POWER HEADROOM REPORT AND APPARATUS THEREOF	NAGARAJA, Sumeeth
(72) NARASIMHA, Murali	(73) Samsung Electronics Co., Ltd.	CHAKRABORTY, Kaushik
(74) ir. H.A. Witmans c.s.	(72) Jeong, Kyeong In	AKKARAKARAN, Sony
(31) 201514932214	Kim, Sang Bum	(74) ir. M.F.J.M. Ketelaars c.s.
(32) 04.11.2015	van Lieshout, Gert Jan	(31) 20181588851
(33) United States of America	Kim, Soeng Hun	201762455341 P
(47) 01.12.2021	(74) ir. M.F.J.M. Ketelaars c.s.	(32) 05.02.2018
(51) H04W 48/16	(31) 201161471872 P	06.02.2017
H04W 52/02	201161444844 P	(33) United States of America
H04W 68/00	(32) 05.04.2011	United States of America
H04W 4/06	21.02.2011	(47) 22.12.2021
H04W 8/24	(33) United States of America	(51) H04W 72/04
H04W 4/70	United States of America	H04W 76/14
(11) EP3504905	(47) 22.12.2021	H04W 84/18
(21) EP17776964.3	(51) H04W 56/00	(11) EP2559307
(22) 18.09.2017	H04W 4/70	(21) EP11717846.7
(54) INFRASTRUCTURE EQUIPMENT, COMMUNICATIONS DEVICE AND METHODS	H04W 48/12	(22) 15.04.2011
(73) Sony Group Corporation	H04W 72/04	(54) MULTIPLEXING OF PEER-TO-PEER (P2P) COMMUNICATION AND WIDE AREA NETWORK (WAN) COMMUNICATION
(72) WONG, Shin Horng	(11) EP3416437	(73) Qualcomm Incorporated
BEALE, Martin Warwick	(21) EP18186220.2	(72) DOAN, Dung Ngoc
MARTIN, Brian Alexander	(22) 19.06.2015	PALANKI, Ravi
SHARMA, Vivek	(54) USER EQUIPMENT, BASE STATION AND CORRESPONDING COMPUTER READABLE HARDWARE DEVICES FOR MTC COEXISTENCE	BHUSHAN, Naga
(74) ir. W.J.J.M. Kempes	(73) Intel Corporation	WANG, Renqiu
(31) 16191990	(72) HAN, Seunghee	(74) ir. M.F.J.M. Ketelaars c.s.
(32) 30.09.2016	XIONG, Gang	(31) 324612 P
(33) European Patent Office (EPO)	FWU, Jong-Kae	201113085322
(47) 29.12.2021	CHATTERJEE, Debdeep	(32) 15.04.2010
(51) H04W 52/02	(74) ir. W.J.J.M. Kempes	12.04.2011
H02J 7/00	(31) 201514667430	(33) United States of America
H02J 1/10	201462031054 P	United States of America
(11) EP3632161	(32) 24.03.2015	(47) 15.12.2021
(21) EP17911428.5	30.07.2014	(51) H04W 74/00
(22) 02.06.2017	(33) United States of America	H04W 74/08
(54) METHOD AND POWER CONTROL UNIT FOR SUPPLYING ELECTRIC POWER TO A RADIO UNIT	United States of America	(11) EP3847864
(73) Telefonaktiebolaget LM Ericsson (publ)	(47) 22.12.2021	(21) EP20743385.5
(72) HUMLA, Lars	(51) H04W 64/00	(22) 13.07.2020
ELEFTHERIADIS, Lackis	G01S 5/02	(54) PUSCH RESOURCE SELECTION IN 2-STEP RANDOM ACCESS
(74) ir. A. Blokland c.s.	(11) EP3508011	(73) Telefonaktiebolaget LM Ericsson (publ)
(47) 05.01.2022	(21) EP17761478.1	(72) ENBUSKE, Henrik
(51) H04W 52/36	(22) 31.08.2017	RUNE, Johan
H04W 52/50	(54) METHOD AND DEVICE FOR COLLABORATIVE GEOLOCATION IN A NEIGHBOURHOOD	LIN, Zhipeng
H04W 52/40	(73) Thales	HARRISON, Robert Mark
(11) EP3668163	(72) HEURGUIER, Dominique	CHRISTOFFERSSON, Jan
(21) EP19204492.3	(74) ir. H.A. Witmans c.s.	SEDIN, Jonas
(22) 26.09.2012	(31) 1601292	(74) ir. A. Blokland c.s.
(54) UPLINK TRANSMISSION POWER DETERMINING METHOD AND USER EQUIPMENT	(32) 01.09.2016	(31) 201962886754 P
(73) Huawei Technologies Co., Ltd.	(33) France	(32) 14.08.2019
(72) LI, Yuanjie	(47) 27.10.2021	(33) United States of America
(74) ir. W.J.J.M. Kempes	(51) H04W 72/04	(47) 12.01.2022
(31) 201110302787	(11) EP3577977	(51) H04W 74/08
(32) 09.10.2011	(21) EP18706924.0	H04W 84/12
(33) China	(22) 06.02.2018	H04W 28/06
(47) 24.11.2021	(54) VARIABLE-LENGTH TRANSMISSION SCHEMES	H04W 74/00
(51) H04W 52/36	(73) QUALCOMM Incorporated	(11) EP3567970
H04W 52/54	(72) LUO, Tao	(21) EP18736031.8
H04L 5/00	CHEN, Shengbo	(22) 09.01.2018
H04W 52/22	WANG, Xiao feng	(54) WIRELESS COMMUNICATION METHOD USING TXOP AND WIRELESS COMMUNICATION TERMINAL USING SAME
(11) EP3422778	NAM, Wooseok	(73) SK Telecom Co., Ltd.
(21) EP18189027.8		Wilus Institute of Standards and Technology Inc.

(72) AHN, Woojin KO, Geonjung SON, Juhjung KWAK, Jinsam	(32) 08.07.2015 (33) United States of America (47) 27.10.2021	MUGUERRA, Philippe SPUDIC, Damien (74) dr. ir. G.J.C. Verdijck c.s.
(74) ir. M.F.J.M. Ketelaars c.s. (31) 20170057098 20170024265 20170008306 20170003137	(51) H04W 88/10 H04W 72/04 H04L 5/00 H04L 27/26 H04L 25/02 H04W 88/06 H04W 72/00	(31) 1460511 (32) 31.10.2014 (33) France (47) 01.12.2021
(32) 05.05.2017 23.02.2017 17.01.2017 09.01.2017	(11) EP2481257 (21) EP10824337.9 (22) 21.09.2010	(51) H05B 33/12 H01L 27/12 H05B 33/10 H05B 33/20 H01L 21/683 H05B 33/14 H05B 33/18 H01L 33/50 H01L 25/16 H01L 23/00 H01L 25/075 H01L 33/62 G09G 3/32
(33) Korea (Republic) Korea (Republic) Korea (Republic) Korea (Republic)	(54) REFERENCE SIGNAL DESIGN FOR DOWNLINK HIGH-ORDER MIMO	(11) EP3328162 (21) EP16828068.3 (22) 20.07.2016 (54) DISPLAY DEVICE AND METHOD FOR MANUFACTURING SAME (73) Seoul Semiconductor Co., Ltd.
(47) 24.11.2021	(73) BlackBerry Limited (72) YU, Dong-Sheng MA, Jianglei XU, Hua BALIGH, Mohammadhadi JIA, Ming COLLARD, Aaron	(72) TAKEYA, Motonobu KIM, Young Hyun (74) mr. R. Zwamborn (31) 201562267770 P 201562196282 P (32) 15.12.2015 23.07.2015 (33) United States of America United States of America
(51) H04W 76/14 (11) EP3723442 (21) EP20168866.0 (22) 09.04.2020	(74) dr. W.A.H.M. Van Borm (31) 244130 P (32) 21.09.2009 (33) United States of America (47) 12.01.2022	(22) 20.07.2016 (54) DISPLAY DEVICE AND METHOD FOR MANUFACTURING SAME (73) Seoul Semiconductor Co., Ltd. (72) TAKEYA, Motonobu KIM, Young Hyun (74) mr. R. Zwamborn (31) 201562267770 P 201562196282 P (32) 15.12.2015 23.07.2015 (33) United States of America United States of America
(54) METHODS AND APPARATUSES FOR HANDLING SIDELINK IDENTIFIER CHANGE IN A WIRELESS COMMUNICATION SYSTEM	(74) dr. W.A.H.M. Van Borm (31) 244130 P (32) 21.09.2009 (33) United States of America (47) 12.01.2022	(22) 20.07.2016 (54) DISPLAY DEVICE AND METHOD FOR MANUFACTURING SAME (73) Seoul Semiconductor Co., Ltd. (72) TAKEYA, Motonobu KIM, Young Hyun (74) mr. R. Zwamborn (31) 201562267770 P 201562196282 P (32) 15.12.2015 23.07.2015 (33) United States of America United States of America
(73) ASUSTek Computer Inc. (72) PAN, Li-Te KUO, Richard Lee-Chee	(51) H05B 3/00 F27D 11/04 H05B 3/60	(47) 13.10.2021 (51) H05B 47/175 H01H 25/06 (11) EP3468306 (21) EP18198739.7 (22) 04.10.2018 (54) EFFICIENT USAGE OF A DIMMER CONTROL BUTTON (73) Niko NV (72) DE MEY, Jens DE NIEL, Wim VERSCHUREN, Diederik Johan Hendrik DE BRABANDER, Peter
(74) dr. ir. G.J.C. Verdijck c.s. (31) 201962833619 P (32) 12.04.2019 (33) United States of America (47) 15.12.2021	(11) EP3744154 (21) EP19701109.1 (22) 22.01.2019 (54) DEVICE PACKED WITH SOLID MATTER FOR CONDUCTING ENDOTHERMIC REACTIONS WITH DIRECT ELECTRIC HEATING	(74) dr. A. Krebs (31) 201705712 (32) 04.10.2017 (33) Belgium (47) 01.12.2021
(51) H04W 76/14 H04W 4/14 H04W 92/18 H04W 72/04	(73) BASF SE (74) ir. W.J.J.M. Kempes (31) 18153697 (32) 26.01.2018 (33) European Patent Office (EPO) (47) 03.11.2021	(51) H05B 47/195 H04L 12/28 (11) EP3726781 (21) EP20166964.5 (22) 31.03.2020 (54) MAPPING AND COMMISSIONING OF ELECTRICAL DEVICES IN AN AUTOMATED HOME ENVIRONMENT (73) Niko NV (72) WILLAERT, Stephane (74) dr. A. Krebs (31) 201905264 (32) 19.04.2019 (33) Belgium (47) 27.10.2021
(11) EP3723443 (21) EP20177248.0 (22) 28.02.2014	(74) ir. W.A.H.M. Van Borm (31) 18153697 (32) 26.01.2018 (33) European Patent Office (EPO) (47) 03.11.2021	(51) H05B 47/195 H04L 12/28 (11) EP3726781 (21) EP20166964.5 (22) 31.03.2020 (54) MAPPING AND COMMISSIONING OF ELECTRICAL DEVICES IN AN AUTOMATED HOME ENVIRONMENT (73) Niko NV (72) WILLAERT, Stephane (74) dr. A. Krebs (31) 201905264 (32) 19.04.2019 (33) Belgium (47) 27.10.2021
(54) MEDIUM ACCESS CONTROL SIGNALLING FOR DIRECT DEVICE TO DEVICE COMMUNICATIONS	(73) BlackBerry Limited (72) MUKHERJEE, Biswaroop NOVAK, Robert GAGE, William Anthony	(51) H05B 47/195 H04L 12/28 (11) EP3726781 (21) EP20166964.5 (22) 31.03.2020 (54) MAPPING AND COMMISSIONING OF ELECTRICAL DEVICES IN AN AUTOMATED HOME ENVIRONMENT (73) Niko NV (72) WILLAERT, Stephane (74) dr. A. Krebs (31) 201905264 (32) 19.04.2019 (33) Belgium (47) 27.10.2021
(74) dr. W.A.H.M. Van Borm (31) 201313781469 (32) 28.02.2013 (33) United States of America (47) 15.12.2021	(74) dr. W.A.H.M. Van Borm (31) 201313781469 (32) 28.02.2013 (33) United States of America (47) 15.12.2021	(51) H05B 47/195 H04L 12/28 (11) EP3726781 (21) EP20166964.5 (22) 31.03.2020 (54) MAPPING AND COMMISSIONING OF ELECTRICAL DEVICES IN AN AUTOMATED HOME ENVIRONMENT (73) Niko NV (72) WILLAERT, Stephane (74) dr. A. Krebs (31) 201905264 (32) 19.04.2019 (33) Belgium (47) 27.10.2021
(51) H04W 88/04 H04B 7/155 H04B 7/26	(74) mr. ir. J. van Breda c.s. (47) 01.12.2021	(51) H05B 47/195 H04L 12/28 (11) EP3726781 (21) EP20166964.5 (22) 31.03.2020 (54) MAPPING AND COMMISSIONING OF ELECTRICAL DEVICES IN AN AUTOMATED HOME ENVIRONMENT (73) Niko NV (72) WILLAERT, Stephane (74) dr. A. Krebs (31) 201905264 (32) 19.04.2019 (33) Belgium (47) 27.10.2021
(11) EP3320730 (21) EP16820611.8 (22) 08.07.2016	(51) H05B 6/10 H05B 6/36 H05B 6/44	(51) H05B 47/195 H04L 12/28 (11) EP3726781 (21) EP20166964.5 (22) 31.03.2020 (54) MAPPING AND COMMISSIONING OF ELECTRICAL DEVICES IN AN AUTOMATED HOME ENVIRONMENT (73) Niko NV (72) WILLAERT, Stephane (74) dr. A. Krebs (31) 201905264 (32) 19.04.2019 (33) Belgium (47) 27.10.2021
(54) SYSTEMS AND METHODS FOR MANAGING A UE-TO-NETWORK RELAY	(11) EP3213601 (21) EP15798160.6 (22) 29.10.2015 (54) STATION FOR HEATING FLUIDS FLOWING THROUGH A NETWORK OF SUBMARINE PIPELINES	(51) H05B 47/195 H04L 12/28 (11) EP3726781 (21) EP20166964.5 (22) 31.03.2020 (54) MAPPING AND COMMISSIONING OF ELECTRICAL DEVICES IN AN AUTOMATED HOME ENVIRONMENT (73) Niko NV (72) WILLAERT, Stephane (74) dr. A. Krebs (31) 201905264 (32) 19.04.2019 (33) Belgium (47) 27.10.2021
(73) BlackBerry Limited (72) FAURIE, Rene VUTUKURI, Eswar SUZUKI, Takashi	(74) dr. W.A.H.M. Van Borm (31) 201514794208	(51) H05B 47/195 H04L 12/28 (11) EP3726781 (21) EP20166964.5 (22) 31.03.2020 (54) MAPPING AND COMMISSIONING OF ELECTRICAL DEVICES IN AN AUTOMATED HOME ENVIRONMENT (73) Niko NV (72) WILLAERT, Stephane (74) dr. A. Krebs (31) 201905264 (32) 19.04.2019 (33) Belgium (47) 27.10.2021
(74) dr. W.A.H.M. Van Borm (31) 201514794208	(72) RUER, Jacques SETTOUTI, Narimane	(51) H05B 47/195 H04L 12/28 (11) EP3726781 (21) EP20166964.5 (22) 31.03.2020 (54) MAPPING AND COMMISSIONING OF ELECTRICAL DEVICES IN AN AUTOMATED HOME ENVIRONMENT (73) Niko NV (72) WILLAERT, Stephane (74) dr. A. Krebs (31) 201905264 (32) 19.04.2019 (33) Belgium (47) 27.10.2021

- (51) H05K 1/02  
H05K 1/14  
H05K 7/10  
G06F 1/18  
G06F 1/20  
H01L 25/16
- (11) EP3110238  
(21) EP16175340.5  
(22) 20.06.2016  
(54) ASSEMBLY STRUCTURE  
(73) Delta Electronics, Inc.  
(74) ir. H.Th. van den Heuvel c.s.  
(31) 201510362342  
(32) 26.06.2015  
(33) China  
(47) 03.11.2021
- 
- (51) H05K 13/08  
G01B 11/00  
G06T 3/40  
H05K 13/04
- (11) EP3407696  
(21) EP16886268.8  
(22) 19.01.2016  
(54) MOUNTING APPARATUS AND IMAGE  
PROCESSING METHOD  
(73) Fuji Corporation  
(72) KOTANI, Kazuya  
KAMIO, Ryohei  
AMANO, Masafumi  
YAMAKAGE, Yusuke  
(74) ir. M.F.J.M. Ketelaars c.s.  
(47) 17.11.2021
- 
- (51) H05K 13/08  
H05K 13/04
- (11) EP3562290  
(21) EP16925438.0  
(22) 26.12.2016  
(54) MOUNTING DEVICE, SETTING  
DEVICE, MOUNTING SYSTEM,  
MOUNTING METHOD, AND SETTING  
METHOD  
(73) Fuji Corporation  
(72) OIKE, Hiroshi  
SUGIYAMA, Kenji  
KITO, Shuichiro  
(74) ir. M.F.J.M. Ketelaars c.s.  
(47) 15.12.2021
-

## EP4

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

(51) A46B 13/00	A61K 45/06	MCGUINNESS, Brian
A46B 13/02	A61P 29/00	BRUEGGEMANN, Marianne
A61C 17/16	(11) EP3247329	(47) 05.09.2018
A46B 9/04	(21) EP16705864.3	(51) G06F 19/18
A46B 9/06	(22) 20.01.2016	G06F 19/22
A61C 17/26	(54) INJECTABLE PHARMACEUTICAL	(11) EP3082056
A61C 17/34	COMPOSITION COMPRISING	(21) EP15305552.0
(11) EP2543278	DEXAMETHASONE SODIUM	(22) 14.04.2015
(21) EP12175118.4	PHOSPHATE	(54) METHOD AND ELECTRONIC SYSTEM
(22) 05.07.2012	(73) Semnur Pharmaceuticals, Inc.	FOR PREDICTING AT LEAST ONE
(54) Cleaning section for an electric oral	(74) ir. W.J.J.M. Kempes	FITNESS VALUE OF A PROTEIN,
hygiene device	(72) SHAH, Mahendra, G.	RELATED COMPUTER PROGRAM
(73) Braun GmbH	(31) 201562106045 P	PRODUCT
(72) Driesen, Georges	(32) 21.01.2015	(73) PEACCEL
SCHAEFER, Norbert	(33) United States of America	(74) ir. A.R. Aalbers
Fritsch, Thomas	(47) 19.05.2021	(72) CADET, Frédéric
Trebitz, Bernd	(51) A61K 39/395	FONTAINE, Nicolas
Schmelcher, Heidrun	A61K 47/48	(47) 27.03.2019
Thurnay, Eva Susanne Dominique	A61K 51/10	
Haas, Martin	A61P 35/00	
KLIMECK, Joachim	C07K 16/00	
Gliemroth, Frank	C07K 16/28	
(31) 11005504	(11) EP2099823	
(32) 06.07.2011	(21) EP07868966.8	
(33) European Patent Office (EPO)	(22) 01.12.2007	
(47) 13.02.2019	(54) VARIANT TARGET BINDING AGENTS	
(51) A47B 47/02	AND USES THEREOF	
B65G 1/02	(73) Seagen Inc.	
(11) EP3209164	(72) MCDONAGH, Charlotte	
(21) EP15771620.0	CARTER, Paul	
(22) 01.10.2015	SUSSMAN, Django	
(54) STORAGE RACK	(31) 918563 P	
(73) Nedcon B.V.	872239 P	
(74) ir. H.A. Witmans c.s.	(32) 16.03.2007	
(72) RAUWERDINK, Edwin	01.12.2006	
FREDERIKS, Jan Willem	(33) United States of America	
ASSINK, Mark	United States of America	
(31) 202014105051 U	(47) 17.09.2014	
(32) 22.10.2014	(51) B01L 3/00	
(33) Germany	(11) EP2821138	
(47) 15.08.2018	(21) EP13175335.2	
(51) A61C 8/00	(22) 05.07.2013	
(11) EP2647349	(54) Flow cell with integrated dry substance	
(21) EP13173577.1	(73) THINXXS MICROTECHNOLOGY AG	
(22) 30.12.2010	(74) ir. F.A. Geurts c.s.	
(54) Fixture for a dental implant	(72) Röser, Tina	
(73) Megagen Implant Co., Ltd.	Weber, Lutz	
(72) Son, June Ig	(47) 24.10.2018	
Shon, Kyu Seok	(51) C07K 16/46	
Park, Kwang Bum	C12N 7/00	
Ryoo, Kyoung Ho	C12N 15/00	
(31) 20100037567	(11) EP3209698	
(32) 22.04.2010	(21) EP14790686.1	
(33) Korea (Republic)	(22) 22.10.2014	
(47) 14.09.2016	(54) TRANSGENIC MICE	
(51) A61K 9/00	(73) Crescendo Biologics Limited	
A61K 47/36	(74) ir. W.J.J.M. Kempes	
A61K 31/661	(72) TENG, Yumin	
A61K 31/573	ROMANOS, Mike	
	YOUNG, Joyce	

## 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) A24F 47/00 A24F 40/40 A24F 40/53	(74) mr. ir. J. van Breda c.s. (31) 88707 P 87515006 P	FOR PREPARING SAME AND USE THEREOF AS CATALYST
(11) EP3206513	(32) 30.10.2007	(73) Rhodia Operations
(21) EP15778290.5	15.12.2006	(72) HEDOUIN, Catherine
(22) 08.10.2015	(33) United States of America	(31) 0207926
(54) SWITCH FAILURE MONITORING IN AN ELECTRICALLY HEATED SMOKING SYSTEM	(33) United States of America	(32) 26.06.2002
(73) Philip Morris Products S.A.	(47) 11.02.2015	(33) France
(72) FERNANDO, Felix	(51) A61M 15/06	(47) 18.11.2015
BERNAUER, Dominique	A24F 47/00	(51) C03C 8/24
(74) dr. W.A.H.M. Van Borm	A61M 11/04	B22D 41/08
(31) 14188685	A61M 16/00	B22D 41/22
(32) 13.10.2014	(11) EP2606756	B22D 41/32
(33) European Patent Office (EPO)	(21) EP13157155.6	B22D 41/36
(47) 12.09.2018	(22) 26.10.2010	B22D 41/50
(51) A47L 9/14	(54) A smoking system having a liquid storage portion and improved airflow characteristics	B22D 41/54
B01D 46/52	(73) Philip Morris Products S.A.	C04B 14/20
(11) EP2366321	(72) Flick, Jean-Marc	C04B 35/80
(21) EP10163463.2	Cochand, Olivier Yves	C09K 21/14
(22) 20.05.2010	Thorens, Michel	C04B 28/26
(54) Vacuum cleaner filter bag	Dubief, Flavien	C09K 3/10
(73) Eurofilters Holding N.V.	(74) dr. W.A.H.M. Van Borm	C04B 111/28
(72) Sauer, Ralf	(31) 09252490	F16J 15/06
Schultink, Jan	(32) 27.10.2009	(11) EP2790856
(74) ir. M.F.J.M. Ketelaars c.s.	(33) European Patent Office (EPO)	(21) EP12826537.8
(31) 10002964	(47) 14.02.2018	(22) 14.12.2012
(32) 19.03.2010	(51) B60D 1/54	(54) NOZZLE ASSEMBLY COMPRISING FIRST AND SECOND ELEMENTS BEING COUPLED TO ONE ANOTHER IN A SLIDING TRANSLATION RELATIONSHIP AND A SEALING MEMBER MADE OF THERMALLY INTUMESCENT MATERIAL, REFRACTORY ELEMENT, METHOD FOR PRODUCING A REFRACTORY ELEMENT, METHOD FOR COUPLING TWO REFRACTORY ELEMENTS
(33) European Patent Office (EPO)	B60D 1/26	(73) Vesuvius U S A Corporation
(47) 05.03.2014	(11) EP1557300	(72) ZHOU, Martin
(51) A61B 5/021	(21) EP05001066.9	OVENSTONE, James
A61B 5/022	(22) 20.01.2005	(74) dr. ir. G.J.C. Verdijck c.s.
(11) EP2334229	(54) Trailer hitch	(31) 11193966
(21) EP09773783.7	(73) ACPS Automotive GmbH	(32) 16.12.2011
(22) 30.06.2009	(72) Riehle, Jörg	(33) European Patent Office (EPO)
(54) EVALUATE AORTIC BLOOD PRESSURE WAVEFORM USING AN ADAPTIVE PERIPHERAL PRESSURE TRANSFER FUNCTION.	Berlinger, Hans-Peter	(47) 09.03.2016
(73) Bmeyer B.V.	Gentner, Wolfgang	(51) C07C 17/25
(72) STOK, Wim Johan	Rimmelspacher, Bernhard	C07C 21/04
(74) ir. F.A. Geurts c.s.	Mayer, Günther	C07C 17/383
(31) 08159357	(74) ir. F.A. Geurts c.s.	(11) EP3142993
(32) 30.06.2008	(31) 102004004504	(21) EP15728675.8
(33) European Patent Office (EPO)	(32) 22.01.2004	(22) 14.05.2015
(47) 14.08.2013	(33) Germany	(54) METHOD FOR MAKING 1,1,3,3- TETRACHLOROPROPENE
(51) A61L 15/32	(47) 04.04.2012	(73) OCCIDENTAL CHEMICAL CORPORATION
A61L 15/38	(51) C01G 25/02	(72) HOLLIS, Darrell G.
A61L 26/00	C04B 35/48	DAWKINS, John L.
A61L 24/10	B01D 53/94	KRAMER, Keith S.
(11) EP2455109	B01J 23/10	
(21) EP11192607.7	B01J 21/00	
(22) 17.12.2007	(11) EP1527018	
(54) Gelatin-transglutaminase hemostatic dressings and sealants	(21) EP03761645.5	
(73) Lifebond Ltd.	(22) 26.06.2003	
	(54) COMPOSITION BASED ON ZIRCONIUM OXIDE AND OXIDES OF CERIUM, LANTHANUM AND OF ANOTHER RARE EARTH, A METHOD	

- |   |  |
|---|--|
| BURROWS, Derrek Rae   | (73) Adwen GmbH                                      |
| KLAUSMEYER, Rodney L.   | (72) Tschirch, Alexander                             |
| (74) ir. W.J.J.M. Kempes  | (74) ir. M.F.J.M. Ketelaars c.s.                     |
| (31) 201461994323 P   | (47) 02.03.2016                                      |
| (32) 16.05.2014   | (51) F26B 3/084                                      |
| (33) United States of America   | F26B 17/10   |
| (47) 12.09.2018   | F26B 23/00   |
| (51) C07D 307/40  | B29B 13/06   |
| C07D 307/44   | C08F 6/00  |
| C07D 307/46   | F26B 23/10   |
| (11) EP2486027  | (11) EP2686629                                       |
| (21) EP10770891.9   | (21) EP12706466.5                                    |
| (22) 06.10.2010   | (22) 23.02.2012                                      |
| (54) METHOD FOR THE PREPARATION OF<br>2,5-FURANDICARBOXYLIC ACID AND<br>ESTERS THEREOF            | (54) METHOD FOR DRYING A HUMID<br>POLYMER POWDER     |
| (73) Furanix Technologies B.V   | (73) ThyssenKrupp Industrial Solutions AG            |
| (72) GRUTER, Gerardus Johannes Maria  | Vinnolit GmbH & Co. KG                               |
| MUÑOZ DE DIEGO, Cesar   | (74) ir. W.J.J.M. Kempes                             |
| SCHAMMEL, Wayne Paul  | (31) 102011014131                                    |
| DAM, Matheus Adrianus   | (32) 15.03.2011                                      |
| (74) ir. J.C. Volmer c.s.   | (33) Germany   |
| (31) 2003607  | (47) 15.04.2015                                      |
| 249400 P  | (51) F41H 5/013                                      |
| (32) 07.10.2009   | B62D 25/20   |
| 07.10.2009  | F41H 7/04  |
| (33) Netherlands  | (11) EP2997324                                       |
| United States of America  | (21) EP14731680.6                                    |
| (47) 04.06.2014   | (22) 09.05.2014                                      |
| (51) C12N 9/99  | (54) FLOOR STRUCTURE FOR AN<br>ARMOURED VEHICLE BODY |
| (11) EP1362099  | (73) NEXTER Systems                                  |
| (21) EP02710764.8   | (72) MALLAT, Didier                                  |
| (22) 06.02.2002   | TIMMER, Bernard                                      |
| (54) METHOD OF PROVIDING<br>POLYPEPTIDE PREPARATIONS<br>WITH REDUCED ENZYMATIC SIDE<br>ACTIVITIES | GERMENOT, Olivier                                    |
| (73) Chr. Hansen A/S  | (74) ir. G.J.M. Verhees                              |
| (72) HARBOE, Marianne, Kirsten  | (31) 1301136   |
| (74) ir. M.F.J.M. Ketelaars c.s.  | (32) 15.05.2013                                      |
| (31) 779560   | (33) France  |
| (32) 09.02.2001   | (47) 11.04.2018                                      |
| (33) United States of America   | (51) H04L 9/08                                       |
| (47) 15.05.2013   | H04L 9/32  |
| (51) D04H 1/4209  | H04L 9/06  |
| D04H 1/4218   | (11) EP2658163                                       |
| D04H 1/587  | (21) EP13003646.0                                    |
| D04H 1/64   | (22) 21.07.2008                                      |
| D04H 1/732  | (54) Cryptographic key generation                    |
| (11) EP2985374  | (73) Telefonaktiebolaget LM Ericsson (publ)          |
| (21) EP15178475.8   | (72) Norrman, Karl                                   |
| (22) 27.07.2015   | Näslund, Mats  |
| (54) USE OF HIGH-FILLED NON-WOVEN<br>FABRICS  | (74) ir. A. Blokland c.s.                            |
| (73) Johns Manville Europe GmbH   | (31) 59386 P   |
| (72) Ketzler, Michael   | (32) 06.06.2008                                      |
| Gleich, Klaus Friedrich   | (33) United States of America                        |
| (74) ir. F.A. Geurts c.s.   | (47) 14.12.2016                                      |
| (31) 102014012159   |  |
| (32) 14.08.2014   |  |
| (33) Germany  |  |
| (47) 13.06.2018   |  |
| (51) F03D 80/00   |  |
| (11) EP2568169  |  |
| (21) EP11180804.4   |  |
| (22) 09.09.2011   |  |
| (54) Wind turbine with tower climatisation<br>system using outside air                            |  |

## SPC

### Ingeschreven en verleende certificaten.

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

- (21) 300398
  - (22) 07.02.2022
  - (11) 300398
  - (71) Kirin-Amgen, Inc  
Kirin-Amgen, Inc
  - (74) ir. J.C. Volmer c.s.  
ir. J.C. Volmer c.s.
  - (68) EP1124961
  - (54) Thrombopoïete verbindingen.
  - (94) 1568
  - (95) romiplostim
  - (93) EU/1/08/497/001-002 06.02.2009
-

## 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) 1040926	(51) A61K 31/519	A61K 8/97
(51) A01K 1/035	A61P 25/18	A61K 8/9789
(00) 13.01.2022	(00) 13/21	A61K 8/9794
(00) 15/16	31.03.2021	(00) 14/21
13.04.2016	(11) EP2475734	07.04.2021
(00) Restoration of rights	(51) C09K 5/04	(11) EP3342043
(00) Hanneke Cruijssen	F25B 9/00	(51) H03K 17/96
(11) 2020195	(00) 14/21	H03K 17/967
(51) C04B 26/16	07.04.2021	(00) 14/21
C08G 18/40	(11) EP2478907	07.04.2021
C08G 18/73	(51) A61K 31/573	(11) EP3449961
C08G 18/75	A61K 31/58	(51) A61M 5/142
C08G 18/76	A61K 45/06	(00) 13/21
C08K 3/22	A61P 13/08	31.03.2021
C08K 3/34	A61P 35/00	(11) EP3483276
C08K 5/00	A61P 43/00	(51) C12N 15/86
C08K 5/16	(00) 15/21	C12N 15/87
C08K 5/49	14.04.2021	(00) 13/21
C09D 5/18	(11) EP3139883	31.03.2021
C09D 175/04	(51) A61F 13/49	(11) EP3554198
(00) 04.02.2022	A61F 13/496	(51) H05B 47/19
(00) 28/19	A61F 13/551	(00) 14/21
10.07.2019	(00) 14/21	07.04.2021
(00) Restoration of rights	07.04.2021	(11) EP3580512
(00) Bolidt Maatschappij tot Exploitatie van Kunststoffen en Bouwwerken B.V.	(11) EP3151898	(51) F27B 3/08
(11) 2020196	(51) A61B 1/12	F27B 3/10
(51) B32B 7/02	A61B 1/267	F27B 3/18
B32B 15/06	A61M 16/04	F27B 3/28
B32B 15/08	A61M 25/00	F27D 27/00
B32B 15/082	A61M 25/01	(00) 13/21
B32B 15/092	A61M 25/10	31.03.2021
B32B 15/095	(00) 12/21	(11) EP3589888
B32B 15/18	24.03.2021	(51) F16L 57/00
B32B 15/20	(11) EP3184011	F22B 31/00
B32B 25/00	(51) A47L 5/24	F22B 37/10
B32B 25/08	A47L 9/00	F23C 10/02
B32B 25/14	A47L 9/16	(00) 14/21
B32B 27/08	(00) 14/21	07.04.2021
B32B 27/20	07.04.2021	(11) EP3631085
B32B 27/30	(11) EP3253630	(51) B65D 5/50
B32B 27/38	(51) B60T 8/1755	B65D 65/46
(00) 03.02.2022	B60T 8/36	B65D 75/24
(00) 28/19	B60T 13/68	B65D 85/32
10.07.2019	(00) 14/21	D21J 3/00
(00) Restoration of rights	07.04.2021	(00) 13/21
(00) Bolidt Maatschappij tot Exploitatie van Kunststoffen en Bouwwerken B.V.	(11) EP3320891	31.03.2021
(11) EP1848511	(51) A61K 8/31	(11) EP3636825
(51) A63B 22/06	A61K 8/34	(51) D06F 67/04
A63B 69/16	A61K 8/36	(00) 12/21
A63B 71/06	A61K 8/365	24.03.2021
(00) 01.12.2021	A61K 8/37	(11) EP3717704
(00) 2013/48	A61K 8/42	(51) E02B 3/02
27.11.2013	A61K 8/58	(00) 11/21
(00) Restoration of rights	A61K 8/89	17.03.2021
(00) Mad Dogg Athletics, Inc.	A61K 8/896	
(11) EP2234617	A61K 8/92	
	A61Q 5/00	
	A61Q 5/12	

## 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) 301002	H04W 74/02
(00) 51/20	H04W 74/08
16.12.2020	(00) 04/21
(00) 09.02.2022	27.01.2021
(00) Withdrawn	(11) EP3202835
(11) EP2147762	(51) C08J 9/16
(51) B27N 7/00	C08J 9/232
(00) 2014/36	C08L 77/00
03.09.2014	(00) 35/21
(11) EP2234617	01.09.2021
(51) A61K 31/519	(11) EP3271322
A61P 25/18	(51) C07C 51/377
(00) 18/21	C07C 51/487
12.05.2021	(11) EP3311088
(11) EP2387708	(51) B29C 35/04
(51) G01N 15/10	B29C 35/06
G02B 21/34	B29C 67/24
G06T 1/00	C03B 37/04
(00) 40/21	C03C 25/64
22.12.2021	F26B 3/06
(00) 03.02.2022	F26B 13/10
(00) Negative	F26B 23/00
(11) EP2695270	F26B 25/00
(51) H02J 1/14	F27B 9/10
H02J 3/28	F27B 9/30
H02J 13/00	F27D 17/00
(00) 47/15	D04H 1/4209
19.11.2015	D04H 1/4218
(11) EP2713774	D04H 1/645
(51) C12N 1/06	C03C 25/26
C12N 9/24	(11) EP3384797
C12N 9/60	(51) A43B 13/02
A23L 27/21	A43B 13/04
A23L 27/24	C08G 69/40
A23L 27/26	C08J 9/12
A23L 29/30	C08J 9/14
A23L 31/10	C08J 9/16
A23L 33/14	C08J 9/232
A23L 33/145	F16F 7/00
(11) EP2759421	(11) EP3470533
(51) B60D 1/06	(51) C12Q 1/6827
(11) EP2962899	G16B 20/10
(51) B60D 1/06	(11) EP3488651
B60R 9/10	(51) H04L 5/00
(11) EP3159289	
(51) B41J 11/00	
B65H 19/24	
(00) 04/21	
27.01.2021	
(00) 04.02.2022	
(00) Positive	
(11) EP3169130	
(51) H04L 5/00	
H04W 72/04	
H04W 72/12	
H04W 72/14	

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

(11) 2009601  
(00) 31.12.2021  
(51) C08L 23/12  
C08L 67/04  
C08L 97/00  
C08L 101/00

(00) Established

---

(11) 2020519  
(00) 31.01.2022  
(51) F24D 13/04  
H05B 6/10

(00) Partial - Renunciation

---

(11) EP2099823  
(51) A61K 39/395  
A61K 47/48  
A61K 51/10  
A61P 35/00  
C07K 16/00  
C07K 16/28

---

(11) EP2543278

(51) A46B 13/00  
A46B 13/02  
A61C 17/16  
A46B 9/04  
A46B 9/06  
A61C 17/26  
A61C 17/34

---

(11) EP2821138

(51) B01L 3/00

---

(11) EP2906630

(00) 31.12.2021  
(51) C08L 23/12  
C08L 67/04  
C08L 97/00  
C08L 97/02  
C08L 101/00

(00) Established

---

(11) EP3082056

(51) G06F 19/18  
G06F 19/22

---

(11) EP3209164

(51) A47B 47/02  
B65G 1/02

---

(11) EP3209698

(51) C07K 16/46  
C12N 7/00  
C12N 15/00

---

## VRV

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

(11) 301085	(00) Patent Expired	(00) Patent Expired
(00) 04.02.2022	(11) EP1358141	(11) EP1380131
(00) SPC Application Rejected	(00) 06.02.2022	(00) 04.02.2022
(11) 301095	(00) Patent Expired	(00) Patent Expired
(00) 04.02.2022	(11) EP1358318	(11) EP1386363
(00) SPC Application Rejected	(00) 07.02.2022	(00) 07.02.2022
(11) EP1231185	(00) Patent Expired	(00) Patent Expired
(00) 06.02.2022	(11) EP1358451	(11) EP1471671
(00) Patent Expired	(00) 07.02.2022	(00) 04.02.2022
(11) EP1231330	(00) Patent Expired	(00) Patent Expired
(00) 06.02.2022	(11) EP1358542	(11) EP1482795
(00) Patent Expired	(00) 08.02.2022	(00) 04.02.2022
(11) EP1232741	(00) Patent Expired	(00) Patent Expired
(00) 09.02.2022	(11) EP1358736	(11) EP1482955
(00) Patent Expired	(00) 07.02.2022	(00) 04.02.2022
(11) EP1232799	(00) Patent Expired	(00) Patent Expired
(00) 06.02.2022	(11) EP1360273	(11) EP1484250
(00) Patent Expired	(00) 08.02.2022	(00) 06.02.2022
(11) EP1233041	(00) Patent Expired	(00) Patent Expired
(00) 08.02.2022	(11) EP1360695	(11) EP1713450
(00) Patent Expired	(00) 07.02.2022	(00) 06.10.2021
(11) EP1233042	(00) Patent Expired	(00) EPV Ceased Effect
(00) 08.02.2022	(11) EP1360779	(11) EP1733736
(00) Patent Expired	(00) 06.02.2022	(00) 07.02.2022
(11) EP1233639	(00) Patent Expired	(00) Patent Expired
(00) 08.02.2022	(11) EP1360782	(11) EP1735408
(00) Patent Expired	(00) 04.02.2022	(00) 06.10.2021
(11) EP1235458	(00) Patent Expired	(00) EPV Ceased Effect
(00) 04.02.2022	(11) EP1361791	(11) EP1773242
(00) Patent Expired	(00) 04.02.2022	(00) 06.10.2021
(11) EP1235459	(00) Patent Expired	(00) EPV Ceased Effect
(00) 04.02.2022	(11) EP1361880	(11) EP1833175
(00) Patent Expired	(00) 04.02.2022	(00) 04.02.2022
(11) EP1333044	(00) Patent Expired	(00) Patent Expired
(00) 04.02.2022	(11) EP1362099	(11) EP1886973
(00) Patent Expired	(00) 06.02.2022	(00) 04.02.2022
(11) EP1333638	(00) Patent Expired	(00) Patent Expired
(00) 04.02.2022	(11) EP1363906	(11) EP1894909
(00) Patent Expired	(00) 08.02.2022	(00) 06.02.2022
(11) EP1334844	(00) Patent Expired	(00) Patent Expired
(00) 08.02.2022	(11) EP1364029	(11) EP1971040
(00) Patent Expired	(00) 08.02.2022	(00) 06.02.2022
(11) EP1335222	(00) Patent Expired	(00) Patent Expired
(00) 08.02.2022	(11) EP1364946	(11) EP1971041
(00) Patent Expired	(00) 07.02.2022	(00) 06.02.2022
(11) EP1335619	(00) Patent Expired	(00) Patent Expired
(00) 09.02.2022	(11) EP1364959	(11) EP2016964
(00) Patent Expired	(00) 06.02.2022	(00) 06.10.2021
(11) EP1357922	(00) Patent Expired	(00) EPV Ceased Effect
(00) 07.02.2022	(11) EP1365424	(11) EP2030591
(00) Patent Expired	(00) 06.02.2022	(00) 06.10.2021
(11) EP1357953	(00) Patent Expired	(00) EPV Ceased Effect
(00) 06.02.2022	(11) EP1366128	(11) EP2046861
(00) Patent Expired	(00) 05.02.2022	(00) 06.07.2021
(11) EP1358121	(00) Patent Expired	(00) European Patent got Revoked
(00) 04.02.2022	(11) EP1371962	(11) EP2083981
(00) Patent Expired	(00) 08.02.2022	(00) 06.10.2021
(11) EP1358129	(00) Patent Expired	(00) EPV Ceased Effect
(00) 04.02.2022	(11) EP1375461	(11) EP2094934
	(00) 07.02.2022	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2190248	(11) EP2418496	(11) EP2559366
(00) 08.02.2022	(00) 06.10.2021	(00) 06.10.2021
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2210116	(11) EP2422679	(11) EP2559812
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2239039	(11) EP2441456	(11) EP2583982
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2241930	(11) EP2445466	(11) EP2585285
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2243298	(11) EP2467701	(11) EP2586570
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2249711	(11) EP2469249	(11) EP2586973
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2264788	(11) EP2470741	(11) EP2592647
(00) 11.11.2021	(00) 09.09.2021	(00) 06.10.2021
(00) European Patent got Revoked	(00) European Patent got Revoked	(00) EPV Ceased Effect
(11) EP2276420	(11) EP2474579	(11) EP2594615
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2303227	(11) EP2474844	(11) EP2596387
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2312365	(11) EP2479664	(11) EP2598059
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2322914	(11) EP2490775	(11) EP2599246
(00) 27.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) European Patent got Revoked	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2326342	(11) EP2499481	(11) EP2599456
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2330975	(11) EP2499883	(11) EP2633457
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2340035	(11) EP2509790	(11) EP2640313
(00) 17.12.2021	(00) 06.10.2021	(00) 06.10.2021
(00) European Patent got Revoked	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2343079	(11) EP2510162	(11) EP2642418
(00) 07.02.2022	(00) 06.10.2021	(00) 06.10.2021
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2362244	(11) EP2515947	(11) EP2648520
(00) 06.10.2021	(00) 06.10.2021	(00) 01.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) European Patent got Revoked
(11) EP2370016	(11) EP2521111	(11) EP2654417
(00) 06.10.2021	(00) 06.10.2021	(00) 23.04.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) European Patent got Revoked
(11) EP2387666	(11) EP2542387	(11) EP2656793
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2397761	(11) EP2543072	(11) EP2656970
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2398929	(11) EP2546621	(11) EP2658546
(00) 06.10.2021	(00) 06.10.2021	(00) 01.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) European Patent got Revoked
(11) EP2400104	(11) EP2551633	(11) EP2660548
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2417888	(11) EP2557547	(11) EP2663203
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2663811	(11) EP2750792	(11) EP2820267
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2667502	(11) EP2751690	(11) EP2823214
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2667891	(11) EP2767719	(11) EP2827384
(00) 06.10.2021	(00) 06.10.2021	(00) 11.11.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) European Patent got Revoked
(11) EP2672023	(11) EP2767913	(11) EP2828693
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2684551	(11) EP2772652	(11) EP2828778
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2685040	(11) EP2776917	(11) EP2829028
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2691807	(11) EP2780786	(11) EP2831997
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2703922	(11) EP2785910	(11) EP2832248
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2705955	(11) EP2787458	(11) EP2834426
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2706907	(11) EP2787853	(11) EP2837723
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2707052	(11) EP2792166	(11) EP2839314
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2712026	(11) EP2796351	(11) EP2840759
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2714595	(11) EP2799712	(11) EP2843000
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2719662	(11) EP2802181	(11) EP2843331
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2725968	(11) EP2806838	(11) EP2843843
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2726985	(11) EP2807896	(11) EP2846454
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2738209	(11) EP2808340	(11) EP2847751
(00) 06.10.2021	(00) 02.01.2022	(00) 06.10.2021
(00) EPV Ceased Effect	(00) European Patent got Revoked	(00) EPV Ceased Effect
(11) EP2739989	(11) EP2810679	(11) EP2847961
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2745531	(11) EP2814691	(11) EP2854309
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2746366	(11) EP2815034	(11) EP2854645
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2747732	(11) EP2816106	(11) EP2856009
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2747828	(11) EP2817888	(11) EP2856129
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2858724	(11) EP2909979	(11) EP2966549
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2863147	(11) EP2910424	(11) EP2968821
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2864427	(11) EP2920607	(11) EP2971195
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2869276	(11) EP2923599	(11) EP2972279
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2877088	(11) EP2927827	(11) EP2974928
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2879752	(11) EP2931332	(11) EP2975344
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2881139	(11) EP2932043	(11) EP2979912
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2882872	(11) EP2933493	(11) EP2980671
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2884603	(11) EP2937077	(11) EP2980974
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2885698	(11) EP2937260	(11) EP2981645
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2886089	(11) EP2943646	(11) EP2982654
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2889431	(11) EP2945470	(11) EP2982775
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2890411	(11) EP2947738	(11) EP2982874
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2893066	(11) EP2952405	(11) EP2982936
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2893167	(11) EP2955022	(11) EP2983109
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2893186	(11) EP2956815	(11) EP2983149
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2893824	(11) EP2956878	(11) EP2983150
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2895276	(11) EP2959049	(11) EP2985283
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2898345	(11) EP2960742	(11) EP2985450
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2902127	(11) EP2961566	(11) EP2986251
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2905891	(11) EP2962617	(11) EP2986338
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2909577	(11) EP2966542	(11) EP2988150
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2988154	(11) EP3033638	(11) EP3055221
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2989301	(11) EP3036125	(11) EP3055726
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2989477	(11) EP3036955	(11) EP3065009
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2992210	(11) EP3037091	(11) EP3070045
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2992943	(11) EP3038465	(11) EP3073810
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2994135	(11) EP3038777	(11) EP3073924
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2996721	(11) EP3038836	(11) EP3075017
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2996840	(11) EP3039150	(11) EP3080691
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2997474	(11) EP3039161	(11) EP3081680
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3004571	(11) EP3039177	(11) EP3082385
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3004924	(11) EP3039400	(11) EP3082618
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3005231	(11) EP3044511	(11) EP3083513
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3006386	(11) EP3044780	(11) EP3083951
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3007588	(11) EP3045138	(11) EP3084460
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3007825	(11) EP3045471	(11) EP3087021
(00) 06.10.2021	(00) 26.11.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) European Patent got Revoked	(00) EPV Ceased Effect
(11) EP3008560	(11) EP3045826	(11) EP3090466
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3013674	(11) EP3047025	(11) EP3091888
(00) 06.10.2021	(00) 24.09.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) European Patent got Revoked	(00) EPV Ceased Effect
(11) EP3023386	(11) EP3048703	(11) EP3094822
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3023830	(11) EP3051065	(11) EP3095366
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3029502	(11) EP3051282	(11) EP3096169
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3031365	(11) EP3053944	(11) EP3098340
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3033127	(11) EP3055115	(11) EP3101035
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3102724	(11) EP3126983	(11) EP3144448
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3104842	(11) EP3129601	(11) EP3144650
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3104940	(11) EP3132068	(11) EP3146308
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3105237	(11) EP3133574	(11) EP3146741
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3106938	(11) EP3134170	(11) EP3147409
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3108276	(11) EP3134522	(11) EP3149575
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3109514	(11) EP3135449	(11) EP3150921
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3110113	(11) EP3135546	(11) EP3152531
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3110205	(11) EP3136132	(11) EP3152759
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3110867	(11) EP3136191	(11) EP3154009
(00) 06.10.2021	(00) 06.10.2021	(00) 27.09.2020
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) European Patent got Revoked
(11) EP3113896	(11) EP3136559	(11) EP3154030
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3114738	(11) EP3136651	(11) EP3154236
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3116070	(11) EP3137219	(11) EP3155827
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3118728	(11) EP3137468	(11) EP3156617
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3119004	(11) EP3138006	(11) EP3157589
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3120273	(11) EP3140235	(11) EP3158056
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3123057	(11) EP3142611	(11) EP3158484
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3124217	(11) EP3142688	(11) EP3159416
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3124993	(11) EP3142977	(11) EP3159417
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3126146	(11) EP3143188	(11) EP3159471
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3126257	(11) EP3143471	(11) EP3159490
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3126878	(11) EP3144371	(11) EP3160038
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3160498	(11) EP3178175	(11) EP3186703
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3161158	(11) EP3178925	(11) EP3186837
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3161806	(11) EP3179730	(11) EP3187609
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3162510	(11) EP3179883	(11) EP3187921
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3164076	(11) EP3179898	(11) EP3188803
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3164795	(11) EP3180066	(11) EP3189774
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3165137	(11) EP3180695	(11) EP3190338
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3165626	(11) EP3180822	(11) EP3191711
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3165793	(11) EP3181872	(11) EP3191777
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3168186	(11) EP3182892	(11) EP3192251
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3170071	(11) EP3183249	(11) EP3193223
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3170861	(11) EP3183449	(11) EP3193777
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3171456	(11) EP3184098	(11) EP3194756
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3172072	(11) EP3184140	(11) EP3195891
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3173475	(11) EP3184521	(11) EP3197063
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3173754	(11) EP3185006	(11) EP3197217
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3173764	(11) EP3185424	(11) EP3199380
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3175217	(11) EP3185610	(11) EP3200376
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3177172	(11) EP3186139	(11) EP3202434
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3177282	(11) EP3186216	(11) EP3202703
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3177394	(11) EP3186274	(11) EP3203067
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3177611	(11) EP3186568	(11) EP3204660
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3208398	(11) EP3222967	(11) EP3241211
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3208416	(11) EP3223030	(11) EP3241231
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3208697	(11) EP3224952	(11) EP3242594
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3209488	(11) EP3225168	(11) EP3242723
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3210017	(11) EP3226305	(11) EP3243696
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3210743	(11) EP3226800	(11) EP3244397
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3210770	(11) EP3227509	(11) EP3244784
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3212698	(11) EP3227744	(11) EP3246238
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3212722	(11) EP3228048	(11) EP3247236
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3213018	(11) EP3230514	(11) EP3247427
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3213093	(11) EP3230587	(11) EP3249125
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3213764	(11) EP3231289	(11) EP3249456
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3214268	(11) EP3231542	(11) EP3249480
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3214541	(11) EP3231685	(11) EP3249488
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3214642	(11) EP3231941	(11) EP3250371
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3216532	(11) EP3232022	(11) EP3251275
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3217225	(11) EP3234854	(11) EP3251312
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3217515	(11) EP3235673	(11) EP3252986
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3217805	(11) EP3236220	(11) EP3253572
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3218298	(11) EP3237814	(11) EP3254592
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3218723	(11) EP3239689	(11) EP3254824
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3219723	(11) EP3240463	(11) EP3254919
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3255470	(11) EP3270436	(11) EP3285902
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3256175	(11) EP3270797	(11) EP3286694
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3257365	(11) EP3271038	(11) EP3286724
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3257720	(11) EP3271268	(11) EP3286725
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3258261	(11) EP3272515	(11) EP3286860
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3258469	(11) EP3273747	(11) EP3287055
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3259410	(11) EP3273773	(11) EP3287297
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3260344	(11) EP3273891	(11) EP3287361
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3260539	(11) EP3277088	(11) EP3287593
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3261867	(11) EP3277832	(11) EP3287814
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3262781	(11) EP3278131	(11) EP3287955
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3263346	(11) EP3279483	(11) EP3289103
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3264202	(11) EP3280760	(11) EP3289413
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3264667	(11) EP3281124	(11) EP3289454
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3265024	(11) EP3281551	(11) EP3289573
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3265200	(11) EP3281693	(11) EP3290840
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3265870	(11) EP3281753	(11) EP3290909
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3265896	(11) EP3282164	(11) EP3290935
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3266518	(11) EP3282489	(11) EP3290943
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3267173	(11) EP3282507	(11) EP3292571
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3269216	(11) EP3283902	(11) EP3293638
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3269575	(11) EP3285669	(11) EP3294746
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3295120	(11) EP3310250	(11) EP3330317
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3295182	(11) EP3310388	(11) EP3330464
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3296024	(11) EP3311591	(11) EP3331075
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3296391	(11) EP3311941	(11) EP3332029
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3298746	(11) EP3313429	(11) EP3332133
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3299150	(11) EP3314249	(11) EP3332200
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3299416	(11) EP3314548	(11) EP3332226
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3300902	(11) EP3317099	(11) EP3332686
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3301562	(11) EP3318228	(11) EP3333526
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3302784	(11) EP3318263	(11) EP3333660
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3302994	(11) EP3318287	(11) EP3334976
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3303019	(11) EP3318802	(11) EP3335321
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3303109	(11) EP3319424	(11) EP3335543
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3304130	(11) EP3319474	(11) EP3335859
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3304395	(11) EP3319511	(11) EP3336662
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3304829	(11) EP3320691	(11) EP3336897
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3305040	(11) EP3324673	(11) EP3336991
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3306969	(11) EP3326345	(11) EP3337340
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3308127	(11) EP3326523	(11) EP3337567
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3308177	(11) EP3326652	(11) EP3337913
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3308364	(11) EP3327215	(11) EP3338592
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3308464	(11) EP3330020	(11) EP3338845
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3339825	(11) EP3354524	(11) EP3373928
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3341132	(11) EP3354705	(11) EP3375535
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3341389	(11) EP3355533	(11) EP3376754
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3341516	(11) EP3355657	(11) EP3378785
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3342914	(11) EP3359243	(11) EP3379261
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3343269	(11) EP3360777	(11) EP3380325
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3343795	(11) EP3364019	(11) EP3380594
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3343813	(11) EP3364255	(11) EP3380728
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3343923	(11) EP3364376	(11) EP3380912
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3344208	(11) EP3365992	(11) EP3382023
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3345059	(11) EP3366108	(11) EP3382024
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3345681	(11) EP3368002	(11) EP3382025
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3345866	(11) EP3369178	(11) EP3383633
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3347618	(11) EP3370292	(11) EP3384482
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3347690	(11) EP3370919	(11) EP3385521
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3349496	(11) EP3370950	(11) EP3385739
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3349608	(11) EP3371026	(11) EP3385866
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3351061	(11) EP3371337	(11) EP3386582
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3351409	(11) EP3371662	(11) EP3386671
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3351521	(11) EP3372270	(11) EP3387004
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3352108	(11) EP3372735	(11) EP3387157
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3352213	(11) EP3372937	(11) EP3387436
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3388795	(11) EP3402105	(11) EP3411928
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3389294	(11) EP3402195	(11) EP3413055
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3390252	(11) EP3402196	(11) EP3415942
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3390392	(11) EP3402197	(11) EP3416331
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3390542	(11) EP3402198	(11) EP3416858
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3394291	(11) EP3402511	(11) EP3417246
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3394911	(11) EP3402660	(11) EP3419234
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3395049	(11) EP3404164	(11) EP3419683
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3395081	(11) EP3404241	(11) EP3419832
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3395152	(11) EP3404340	(11) EP3420337
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3395622	(11) EP3404774	(11) EP3421039
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3395723	(11) EP3406127	(11) EP3421457
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3395842	(11) EP3406422	(11) EP3421755
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3395864	(11) EP3407165	(11) EP3422474
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3396037	(11) EP3407428	(11) EP3422651
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3396343	(11) EP3407491	(11) EP3424197
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3396718	(11) EP3409443	(11) EP3425467
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3397244	(11) EP3410038	(11) EP3425823
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3397376	(11) EP3411180	(11) EP3426035
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3399651	(11) EP3411427	(11) EP3427092
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3399873	(11) EP3411772	(11) EP3427597
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3401530	(11) EP3411817	(11) EP3428497
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3428612	(11) EP3441028	(11) EP3449379
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3429103	(11) EP3441287	(11) EP3449672
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3430874	(11) EP3441296	(11) EP3450242
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3431981	(11) EP3441708	(11) EP3450597
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3432222	(11) EP3441968	(11) EP3450611
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3432657	(11) EP3441973	(11) EP3450689
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3434308	(11) EP3443196	(11) EP3450717
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3434880	(11) EP3443242	(11) EP3451053
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3434881	(11) EP3443362	(11) EP3451158
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3435289	(11) EP3444435	(11) EP3451417
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3435988	(11) EP3444912	(11) EP3451601
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3436851	(11) EP3444914	(11) EP3451716
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3437470	(11) EP3444934	(11) EP3451719
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3438020	(11) EP3445637	(11) EP3451732
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3438431	(11) EP3445659	(11) EP3454075
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3438443	(11) EP3445736	(11) EP3456687
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3438993	(11) EP3446874	(11) EP3456976
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3439254	(11) EP3447057	(11) EP3457466
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3439342	(11) EP3447882	(11) EP3457495
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3439360	(11) EP3448005	(11) EP3458004
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3439981	(11) EP3448528	(11) EP3458125
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3440513	(11) EP3449208	(11) EP3458513
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3458672	(11) EP3469592	(11) EP3480074
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3458832	(11) EP3470423	(11) EP3480370
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3460955	(11) EP3470654	(11) EP3480591
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3461002	(11) EP3471253	(11) EP3481099
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3461723	(11) EP3471361	(11) EP3482467
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3461729	(11) EP3471397	(11) EP3482505
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3462719	(11) EP3471520	(11) EP3483162
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3462851	(11) EP3471929	(11) EP3483345
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3463285	(11) EP3473127	(11) EP3483781
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3463482	(11) EP3473383	(11) EP3483948
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3464280	(11) EP3473814	(11) EP3484126
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3464708	(11) EP3473881	(11) EP3484223
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3464953	(11) EP3474455	(11) EP3484542
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3465134	(11) EP3474509	(11) EP3486318
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3465711	(11) EP3474980	(11) EP3486389
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3465727	(11) EP3475162	(11) EP3486771
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3465905	(11) EP3475996	(11) EP3487155
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3466186	(11) EP3477096	(11) EP3487704
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3467532	(11) EP3477696	(11) EP3487749
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3469103	(11) EP3478773	(11) EP3488004
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3469452	(11) EP3478779	(11) EP3488307
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3469455	(11) EP3479381	(11) EP3488589
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3488887	(11) EP3495518	(11) EP3500441
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3489069	(11) EP3495624	(11) EP3500673
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3489082	(11) EP3496310	(11) EP3500901
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3489552	(11) EP3496471	(11) EP3501167
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3489739	(11) EP3496534	(11) EP3501353
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3490081	(11) EP3496724	(11) EP3502146
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3490210	(11) EP3496795	(11) EP3502673
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3490647	(11) EP3496826	(11) EP3502781
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3490729	(11) EP3497029	(11) EP3503379
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3492256	(11) EP3497546	(11) EP3503613
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3493101	(11) EP3497575	(11) EP3503757
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3493111	(11) EP3498164	(11) EP3503776
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3493235	(11) EP3498165	(11) EP3504081
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3493473	(11) EP3498277	(11) EP3504132
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3493987	(11) EP3499927	(11) EP3504423
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3494056	(11) EP3500000	(11) EP3504427
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3494113	(11) EP3500044	(11) EP3504453
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3494121	(11) EP3500145	(11) EP3504491
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3494331	(11) EP3500150	(11) EP3504535
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3494879	(11) EP3500165	(11) EP3504608
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3495227	(11) EP3500349	(11) EP3504626
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3495320	(11) EP3500440	(11) EP3504782
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3505375	(11) EP3515097	(11) EP3529526
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3506520	(11) EP3516213	(11) EP3529552
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3506865	(11) EP3516831	(11) EP3530343
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3507483	(11) EP3517428	(11) EP3530535
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3507552	(11) EP3517645	(11) EP3530977
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3508348	(11) EP3518303	(11) EP3531528
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3508483	(11) EP3518539	(11) EP3531542
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3508926	(11) EP3518580	(11) EP3532211
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3508927	(11) EP3520595	(11) EP3533531
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3509085	(11) EP3521031	(11) EP3533584
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3509114	(11) EP3521608	(11) EP3533784
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3509445	(11) EP3522560	(11) EP3533826
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3510308	(11) EP3522609	(11) EP3534091
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3511315	(11) EP3524679	(11) EP3534277
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3512142	(11) EP3525374	(11) EP3534626
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3512238	(11) EP3526892	(11) EP3534641
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3513275	(11) EP3526929	(11) EP3534662
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3513642	(11) EP3526985	(11) EP3536519
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3514047	(11) EP3527064	(11) EP3537749
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3514064	(11) EP3527372	(11) EP3537769
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3514358	(11) EP3528686	(11) EP3538206
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3514486	(11) EP3528808	(11) EP3538903
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3538972	(11) EP3549230	(11) EP3562236
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3539828	(11) EP3549273	(11) EP3562532
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3540313	(11) EP3550263	(11) EP3563246
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3541302	(11) EP3550429	(11) EP3564478
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3541569	(11) EP3550757	(11) EP3564935
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3543072	(11) EP3551515	(11) EP3565171
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3543832	(11) EP3552109	(11) EP3565273
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3544155	(11) EP3552577	(11) EP3565388
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3544284	(11) EP3552731	(11) EP3566341
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3544846	(11) EP3553435	(11) EP3566505
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3545389	(11) EP3553570	(11) EP3566521
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3545636	(11) EP3554288	(11) EP3566587
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3545777	(11) EP3554764	(11) EP3566944
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3545904	(11) EP3555963	(11) EP3567442
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3546230	(11) EP3556111	(11) EP3567703
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3546761	(11) EP3556327	(11) EP3567750
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3546778	(11) EP3557802	(11) EP3568512
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3547063	(11) EP3557916	(11) EP3568941
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3547141	(11) EP3558727	(11) EP3569432
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3547584	(11) EP3558844	(11) EP3569867
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3548160	(11) EP3561496	(11) EP3570098
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3548742	(11) EP3562125	(11) EP3570173
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3570357	(11) EP3583428	(11) EP3592501
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3570436	(11) EP3583772	(11) EP3593494
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3573232	(11) EP3584808	(11) EP3593946
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3574316	(11) EP3584973	(11) EP3594601
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3575174	(11) EP3586143	(11) EP3595123
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3575605	(11) EP3586525	(11) EP3595376
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3575852	(11) EP3587534	(11) EP3595477
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3577000	(11) EP3588200	(11) EP3595496
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3577323	(11) EP3588527	(11) EP3597688
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3577716	(11) EP3588674	(11) EP3597698
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3577991	(11) EP3588990	(11) EP3597703
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3578016	(11) EP3589028	(11) EP3597707
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3578537	(11) EP3589063	(11) EP3597708
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3579431	(11) EP3590042	(11) EP3598249
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3579773	(11) EP3590065	(11) EP3598571
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3580372	(11) EP3590333	(11) EP3598818
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3581902	(11) EP3590805	(11) EP3599649
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3582326	(11) EP3590832	(11) EP3601024
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3582386	(11) EP3591797	(11) EP3601856
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3582546	(11) EP3591963	(11) EP3603307
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3583038	(11) EP3592085	(11) EP3603455
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3583199	(11) EP3592311	(11) EP3604484
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3604787	(11) EP3609648	(11) EP3616017
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3605751	(11) EP3610037	(11) EP3616967
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3605924	(11) EP3611022	(11) EP3617373
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3606117	(11) EP3611366	(11) EP3617374
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3606178	(11) EP3611387	(11) EP3617377
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3606257	(11) EP3611391	(11) EP3617378
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3607274	(11) EP3611519	(11) EP3617381
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3607825	(11) EP3611705	(11) EP3617458
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3607827	(11) EP3611860	(11) EP3617516
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3607933	(11) EP3611980	(11) EP3617556
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3608015	(11) EP3612336	(11) EP3617568
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3608146	(11) EP3612376	(11) EP3618201
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3608288	(11) EP3612721	(11) EP3618282
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3608370	(11) EP3613217	(11) EP3618995
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3608447	(11) EP3613986	(11) EP3620149
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3608486	(11) EP3614728	(11) EP3620391
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3608742	(11) EP3614767	(11) EP3620541
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3609103	(11) EP3614771	(11) EP3620618
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3609157	(11) EP3614802	(11) EP3620661
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3609285	(11) EP3615431	(11) EP3621235
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3609342	(11) EP3615488	(11) EP3621854
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3609547	(11) EP3615807	(11) EP3621859
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3622376	(11) EP3632193	(11) EP3641429
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3623283	(11) EP3632621	(11) EP3641468
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3623762	(11) EP3632651	(11) EP3641880
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3623895	(11) EP3632951	(11) EP3642031
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3624523	(11) EP3633246	(11) EP3642046
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3624617	(11) EP3633504	(11) EP3642684
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3625133	(11) EP3634350	(11) EP3643821
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3625895	(11) EP3634566	(11) EP3643934
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3626771	(11) EP3635806	(11) EP3644766
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3627244	(11) EP3636707	(11) EP3646121
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3627521	(11) EP3637505	(11) EP3646421
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3627815	(11) EP3637831	(11) EP3647190
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3627821	(11) EP3637932	(11) EP3647541
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3627883	(11) EP3638929	(11) EP3648121
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3627928	(11) EP3639312	(11) EP3648349
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3627948	(11) EP3639471	(11) EP3648492
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3628054	(11) EP3641088	(11) EP3648509
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3628120	(11) EP3641110	(11) EP3650588
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3628492	(11) EP3641190	(11) EP3650754
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3628892	(11) EP3641242	(11) EP3650857
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3631975	(11) EP3641272	(11) EP3652198
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3632092	(11) EP3641327	(11) EP3652389
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3653522	(11) EP3658816	(11) EP3663779
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3653553	(11) EP3658851	(11) EP3664513
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3653577	(11) EP3659042	(11) EP3664872
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3654008	(11) EP3659247	(11) EP3665000
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3654558	(11) EP3659286	(11) EP3665103
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3654591	(11) EP3659318	(11) EP3665322
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3654624	(11) EP3659379	(11) EP3665413
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3656111	(11) EP3659475	(11) EP3665610
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3656300	(11) EP3659887	(11) EP3665645
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3656318	(11) EP3660401	(11) EP3665759
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3656590	(11) EP3660658	(11) EP3665872
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3656674	(11) EP3661013	(11) EP3666000
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3656916	(11) EP3661092	(11) EP3666417
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3657007	(11) EP3661711	(11) EP3666598
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3657131	(11) EP3661744	(11) EP3666599
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3657609	(11) EP3661848	(11) EP3666654
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3657702	(11) EP3661932	(11) EP3667015
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3657729	(11) EP3662803	(11) EP3667308
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3657763	(11) EP3662988	(11) EP3667395
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3657890	(11) EP3663449	(11) EP3667441
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3657969	(11) EP3663578	(11) EP3667786
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3657978	(11) EP3663591	(11) EP3668072
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3668107	(11) EP3672833	(11) EP3677995
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3668364	(11) EP3672978	(11) EP3678386
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3668555	(11) EP3673148	(11) EP3678441
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3668659	(11) EP3673174	(11) EP3678528
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3668714	(11) EP3673487	(11) EP3679299
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3668786	(11) EP3674068	(11) EP3680067
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3668880	(11) EP3674109	(11) EP3680138
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3669122	(11) EP3674719	(11) EP3680210
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3669156	(11) EP3674753	(11) EP3681103
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3669379	(11) EP3674885	(11) EP3681665
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3670070	(11) EP3675145	(11) EP3681746
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3670134	(11) EP3675543	(11) EP3681837
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3670304	(11) EP3676049	(11) EP3682455
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3670426	(11) EP3676093	(11) EP3682538
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3670613	(11) EP3676134	(11) EP3682595
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3671051	(11) EP3676149	(11) EP3683222
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3671236	(11) EP3676263	(11) EP3683500
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3671506	(11) EP3676343	(11) EP3684567
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3672557	(11) EP3676693	(11) EP3684574
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3672670	(11) EP3676995	(11) EP3684962
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3672709	(11) EP3677332	(11) EP3685097
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3672754	(11) EP3677766	(11) EP3685268
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3685805	(11) EP3695990	(11) EP3703281
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3685976	(11) EP3696007	(11) EP3703451
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3686063	(11) EP3696205	(11) EP3704730
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3686874	(11) EP3696553	(11) EP3705815
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3687450	(11) EP3696868	(11) EP3706351
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3687630	(11) EP3697029	(11) EP3706484
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3687847	(11) EP3697308	(11) EP3706531
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3687937	(11) EP3699005	(11) EP3706539
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3689435	(11) EP3699080	(11) EP3707024
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3690127	(11) EP3699123	(11) EP3707057
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3690160	(11) EP3700058	(11) EP3707094
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3690229	(11) EP3700074	(11) EP3707490
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3691008	(11) EP3700124	(11) EP3707521
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3691019	(11) EP3700255	(11) EP3708044
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3691190	(11) EP3700263	(11) EP3708365
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3691719	(11) EP3700382	(11) EP3709632
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3692855	(11) EP3700510	(11) EP3709727
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3693149	(11) EP3701309	(11) EP3710295
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3693400	(11) EP3701673	(11) EP3710659
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3694448	(11) EP3702323	(11) EP3710697
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3695100	(11) EP3702579	(11) EP3710878
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3695751	(11) EP3702636	(11) EP3712020
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3712285	(11) EP3722207	(11) EP3728783
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3712908	(11) EP3722671	(11) EP3728809
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3713308	(11) EP3723231	(11) EP3729839
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3713448	(11) EP3723582	(11) EP3730447
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3713777	(11) EP3724056	(11) EP3730701
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3714306	(11) EP3724473	(11) EP3731027
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3715286	(11) EP3724531	(11) EP3731098
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3715313	(11) EP3724896	(11) EP3731430
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3715409	(11) EP3724979	(11) EP3731583
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3716658	(11) EP3725152	(11) EP3732404
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3716705	(11) EP3725856	(11) EP3732890
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3717448	(11) EP3726070	(11) EP3733448
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3717557	(11) EP3726909	(11) EP3737150
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3717757	(11) EP3727123	(11) EP3737789
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3718009	(11) EP3727512	(11) EP3738250
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3719262	(11) EP3727534	(11) EP3738752
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3719939	(11) EP3727575	(11) EP3738784
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3720060	(11) EP3728007	(11) EP3739278
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3720312	(11) EP3728142	(11) EP3740042
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3720761	(11) EP3728261	(11) EP3741502
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3721089	(11) EP3728409	(11) EP3741557
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3722203	(11) EP3728553	(11) EP3743191
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021

(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3743324	(11) EP3767273	(11) EP3783745
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3743733	(11) EP3767905	(11) EP3789252
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3743968	(11) EP3768432	(11) EP3790279
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3746329	(11) EP3770166	(11) EP3790675
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3748361	(11) EP3771504	(11) EP3790789
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3748706	(11) EP3772307	(11) EP3793451
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3749670	(11) EP3772308	(11) EP3794664
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3750597	(11) EP3772771	(11) EP3794665
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3750783	(11) EP3773121	(11) EP3794770
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3752052	(11) EP3773457	(11) EP3804471
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3752889	(11) EP3773926	(11) EP3822761
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3754145	(11) EP3774300	(11) EP3825599
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3754252	(11) EP3775033	(11) EP3829142
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3756330	(11) EP3775285	(11) EP3830927
(00) 06.10.2021	(00) 06.10.2021	(00) 06.10.2021
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP3759754	(11) EP3777928	
(00) 06.10.2021	(00) 06.10.2021	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3760001	(11) EP3777929	
(00) 06.10.2021	(00) 06.10.2021	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3761881	(11) EP3778028	
(00) 06.10.2021	(00) 06.10.2021	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3762101	(11) EP3778383	
(00) 06.10.2021	(00) 06.10.2021	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3762442	(11) EP3778853	
(00) 06.10.2021	(00) 06.10.2021	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3763325	(11) EP3779229	
(00) 06.10.2021	(00) 06.10.2021	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3764695	(11) EP3782855	
(00) 06.10.2021	(00) 06.10.2021	
(00) EPV Ceased Effect	(00) EPV Ceased Effect	
(11) EP3766766	(11) EP3783394	
(00) 06.10.2021	(00) 06.10.2021	

**VRB**

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

(11) 2025024  
(48) 09.02.2022  
(00) Correctie naam uitvinder/aanvrager  
(51) E04G 21/18

---

(11) 2028902  
(48) 09.02.2022  
(00) Correctie naam uitvinder  
(51) G01N 1/28

---

## CO

## Ingeschreven overdrachten.

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

(71) senz° IP B.V.	(71) Vertiv S.r.l.	(00) 04.01.2022
(73) senz° IP B.V.	(73) Vertiv S.r.l.	(51) H02M 1/00
(11) 1029225	(11) EP2218314	H02M 3/155
(00) 31.12.2021	(00) 31.12.2021	H02M 3/158
(51) A45B 19/00	(51) F24F 3/044	H02M 7/5387
A45B 25/02	G06F 1/20	(00) Change of owner(s) name
A45B 25/06	H05K 7/20	(71) Suzhou YINGUAN Semiconductor
A45B 25/22	(00) Assignment	Technology Co., Ltd.
(00) Assignment	(71) ABC IP Holding GmbH	(73) Suzhou YINGUAN Semiconductor
(71) BoxBarrier B.V.	(73) ABC IP Holding GmbH	Technology Co., Ltd.
(73) BoxBarrier B.V.	(11) EP2321469	(11) EP3320400
(11) 1034103	(00) 04.01.2022	(00) 31.12.2021
(00) 04.01.2022	(51) E02B 17/00	(51) G03F 7/20
(51) E02B 3/10	(00) Assignment	H02K 1/27
(00) Assignment	(71) ABC IP Holding GmbH	H02K 7/09
(71) senz° IP B.V.	(73) ABC IP Holding GmbH	H02K 41/03
(73) senz° IP B.V.	(11) EP2879945	H02K 41/035
(11) 2009871	(00) 04.01.2022	(00) Assignment
(00) 31.12.2021	(51) B08B 9/08	(71) ABC IP Holding GmbH
(51) A45B 11/00	B63B 57/02	(73) ABC IP Holding GmbH
A45B 19/10	B63B 59/06	(11) EP3458353
(00) Assignment	B66F 11/04	(00) 04.01.2022
(71) senz° IP B.V.	(00) Assignment	(51) B05B 13/00
(73) senz° IP B.V.	(71) T.D. Holding B.V.	B08B 3/02
(11) EP1912528	(73) T.D. Holding B.V.	B24C 3/06
(00) 31.12.2021	(11) 1042735	B61C 13/08
(51) A45B 11/00	(00) 30.12.2021	B63B 9/00
A45B 19/00	(51) H01R 9/03	B63B 59/06
A45B 25/02	H01R 13/02	B63C 5/00
A45B 25/06	(00) Assignment	B63C 5/02
A45B 25/22	(71) BoxBarrier B.V.	E01B 5/14
(00) Assignment	(73) BoxBarrier B.V.	E01B 25/00
(71) NOVASEP PROCESS SOLUTIONS	(11) EP2188454	E01B 25/24
(73) NOVASEP PROCESS SOLUTIONS	(00) 04.01.2022	E04G 1/22
(11) EP1540019	(51) E02B 3/10	E04G 1/36
(00) 29.12.2021	(00) Assignment	E04G 23/00
(51) C13B 20/16	(71) IGNEO IP, LLC	(00) Assignment
A23C 9/142	(73) IGNEO IP, LLC	(71) Aubert & Duval
A23C 9/144	(11) EP2366038	(73) Aubert & Duval
A23C 9/146	(00) 04.01.2022	(11) EP3077560
A23L 2/74	(51) B03C 1/30	(00) 29.12.2021
B01D 61/02	B07C 5/344	(51) C21D 1/06
C13K 13/00	C22B 7/00	C21D 1/18
(00) Assignment	(00) Assignment	C21D 9/36
(71) NOVASEP EQUIPMENT SOLUTIONS	(71) MCC Non-Ferrous Trading LLC	C21D 9/40
(73) NOVASEP EQUIPMENT SOLUTIONS	(73) IGNEO IP, LLC	C22C 33/02
(11) EP2040811	(11) EP2366038	C22C 33/04
(00) 29.12.2021	(00) 04.01.2022	C22C 38/02
(51) B01D 15/18	(51) B03C 1/30	C22C 38/04
B01D 15/36	B07C 5/344	C22C 38/44
B01D 15/38	C22B 7/00	C22C 38/46
(00) Assignment	(00) Assignment	C22C 38/52
(71) NOVASEP PROCESS	(71) INNOVAL	C23C 8/22
(73) NOVASEP EQUIPMENT SOLUTIONS	(73) INNOVAL	C23C 8/26
(11) EP2040811	(11) EP2890329	C23C 8/32
(00) 29.12.2021	(00) 05.01.2022	C23C 8/80
(51) B01D 15/18	(51) A61D 17/00	F16C 33/62
B01D 15/36	(00) Assignment	(00) Assignment
B01D 15/38	(71) KATEK Memmingen GmbH	(71) Applied Materials, Inc.
(00) Assignment	(73) KATEK Memmingen GmbH	(73) Applied Materials, Inc.
	(11) EP2421135	(11) EP2386074

(00) 29.12.2021  
(51) G03F 7/20  
(00) Assignment

---

(71) Applied Materials South East Asia, PTE LTD  
(73) Applied Materials, Inc.  
(11) EP2386074  
(00) 29.12.2021  
(51) G03F 7/20  
(00) Assignment

---

(71) iLOQ Oy  
(73) iLOQ Oy  
(11) EP3530847  
(00) 03.01.2022  
(51) E05B 47/00  
E05B 47/06  
(00) Merge

---

(71) Global Strategies Holding Corp.  
(73) Global Strategies Holding Corp.  
(11) EP3283384  
(00) 28.12.2021  
(51) B65D 30/04  
B65D 30/14  
D03D 1/04  
D06M 17/00  
(00) Change of Legal Entity

---

(71) STAGETEC GmbH  
(73) STAGETEC GmbH  
(11) EP3607677  
(00) 03.01.2022  
(51) H04H 60/04  
H01C 10/44  
(00) Change of owner(s) name

---

(71) Christof Global Impact Ltd.  
(73) Christof Global Impact Ltd.  
(11) EP3383980  
(00) 04.01.2022  
(51) C10L 3/08  
(00) Assignment

---

**TVH**

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