



Rijksdienst voor Ondernemend
Nederland

Nederland

De industriële eigendom

Inleiding

Hoofdblad

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

Bijblad

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

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Introduction

Patent Bulletin

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

Official Journal

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

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Overzicht van Inid codes

INID CODES

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

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

INID CODES

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

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

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

Rubrieken/Headings

NP1

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(21) 2032384	(21) 2028570	FOR TREATING OR/AND PREVENTING
(22) 05.07.2022	(22) 29.06.2021	DEPRESSION
(54) Groeiplug alsmede werkwijze voor het	(54) COATING DEVICE AND METHOD	(71) Jinan University
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(71) Gerbrandus Janus Appels	(74) ir. J.C. Volmer c.s.	(72) Zhihong Yao
(74) ir. G.J.M. Verhees	(72) Bart Henricus Jozef Verberk	Li Yan
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(31) 2028628	der Straaten	Wenzhi Hao
(32) 05.07.2021	Luc Wilhelmus Antonius Dorpmanns	Jiaxu Chen
(33) Netherlands	Johannes Martinus Meulendijks	Liangliang He
(51) A01M 7/00	(41) 09.01.2023	Xiaoxu Zhu
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(74) ir. M.B. Plaggenborg	(22) 02.07.2021	(71) Erasmus University Medical Center
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Jiye Liang	(74) ir. H.Th. van den Heuvel c.s.	Christos Strydis
Jie Wei	(72) Johannes Hubertus Jozef Maria Kelders	Christiaan Innocentius de Zeeuw
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(31) 202110752138.7	Wouter Marius Stinesen	(51) A61N 1/372
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A23K 10/37	(54) Disc for a medicine unit delivery device,	device therefor
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(21) 2029942	such disk, and method for configuring a	Rotterdam
(22) 29.11.2021	medicine unit delivery device	(74) ir. H.A. Witmans c.s.
(54) Feed composition, preparation method	(71) DD Innovations B.V.	(72) Muhammad Ali Siddiqi
and application thereof	(74) ir. M. van der Velden	Christos Strydis
(71) Pearl River Fisheries Research Institute,	(72) Dennis Raymond Bijlsma	Christiaan Innocentius de Zeeuw
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(74) dr. ir. G.J.C. Verdijck c.s.	(41) 09.01.2023	(54) Vehicle, method for controlling a brake system of a vehicle, and computer program
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(71) NX Filtration Holding B.V.	Marc Johannes Magdalena Graaf	(74) ir. J.P.E. Brants
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(51) B05B 11/00	(54) Vehicle cabin climate control system	(33) European Patent Office (EPO)
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(21) 1044078	(74) ir. J.C. Volmer c.s.	B63B 25/28
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(54) SMART WATER SPRAYER	Marc Johannes Magdalena Graaf	B63B 77/10
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(72) Frans Herman Volmer	(21) 2031534	Dongfang Xu
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(51) B29C 45/44	(62) 2028562 (29.06.2021)	Jianhua He
B29C 33/48	(71) Atlas Technologies Holding B.V.	(31) 202110741963.7
B29C 45/14	(74) ir. J.C. Volmer c.s.	(32) 01.07.2021
(21) 1044079	(72) Soumya Bandyopadhyay	(33) China
(22) 30.06.2021	(51) B60L 1/00	(51) C02F 1/28
(54) Mould	B60L 8/00	B01D 71/38
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	(72) Soumya Bandyopadhyay	
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(22) 29.06.2021	C22B 1/16	(41) 10.01.2023
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(71) Qufu Normal University	(22) 30.06.2022	F04B 15/02
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(22) 02.07.2021	(74) dr. T. Wittop Koning PhD	(71) Josephus Joannes Franciscus van Iersel
(54) ELASTIC POLYMER COATING COMPOSITION FOR COATING OF A WALL OR CEILING SURFACE	(72) Jinshan Sun	(74) dr. R.C. van Duijvenbode c.s.
(71) Sinck&Ko B.V.	Libo Zhou	(72) Josephus Joannes Franciscus van Iersel
(74) dr. ir. G.J.C. Verdijck c.s.	Jian Chen	(51) E06B 9/68
(72) Dirk Kouwenhoven	Yanjie Ren	E06B 9/60
(41) 10.01.2023	Yan Niu	E06B 9/56
(51) C12N 9/50	Jianjun He	(21) 2033435
C12P 21/06	Cong Li	(22) 01.11.2022
C12N 9/24	Wei Li	(54) DECELERATING AND POSITIONING DEVICE FOR ROLLER SHADE
C12N 5/071	(31) 202110752561.7	(71) Chih-Yung Wang
(21) 2032370	(32) 02.07.2021	(74) dr. R.C. van Duijvenbode c.s.
(22) 05.07.2022	(33) China	(72) Chih-Yung Wang
(54) Method for Preparing Histone Samples of Gastric Mucosa	(51) E01C 5/00	(51) E21B 7/18
(71) Zhejiang Chinese Medical University	(21) 2028579	E21B 43/12
(74) dr. T. Wittop Koning PhD	(22) 29.06.2021	(21) 1044081
(72) Xiaowei Zheng	(54) Verharde weg en werkwijze voor het leggen van een verharde weg	(22) 02.07.2021
Wangqin Yu	(71) Biobound B.V.	(54) Method and devices for unloading flow conduits and improving multi-phase flow capacity.
(41) 06.01.2023	(74) dr. T. Wittop Koning PhD	(71) Dr. Ir. (PhD, MSc) Reza Malekzadeh
(51) C12N 15/113	(72) Jacobus Gerhard Nicolaas Schotanus	Ir. (Msc) Mark Gilbert Sisouw de Zilwa
C12N 9/22	(41) 09.01.2023	(72) Dr. Ir. (PhD, MSc) Reza Malekzadeh
C12N 15/89	(51) E03C 1/242	Ir. (Msc) Mark Gilbert Sisouw de Zilwa
C12N 5/075	(21) 2028578	(41) 10.01.2023
(21) 2033411	(22) 29.06.2021	(51) E21B 15/04
(22) 28.10.2022	(54) OPZETSTUK VOOR TAPWATERKRAAN EN WERKWIJZE VOOR HET MET VLOEISTOF VULLEN VAN EEN HOUDER	E21B 47/02
(54) CONSTRUCTION METHOD FOR GENE EDITING SYSTEM OF APOSTICHOPUS JAPONICUS	(71) Holding Krulstaart B.V.	(21) 2032291
(71) INSTITUTE OF OCEANOLOGY, CHINESE ACADEMY OF SCIENCES	(74) dr. ir. G.J.C. Verdijck c.s.	(22) 27.06.2022
(74) dr. R.C. van Duijvenbode c.s.	(72) Bernardus Johannes Wit	(54) ATTITUDE DETERMINATION METHOD FOR DRILLING TOOL OF DRILLING ROBOT FOR ROCKBURST PREVENTION BASED ON REDUNDANT INERTIAL UNITS
(72) Lili Xing	(41) 09.01.2023	(71) CHINA UNIVERSITY OF MINING AND TECHNOLOGY
Hongsheng Yang	(51) E04F 13/08	(74) drs. C.M.A. Quintelier
Lina Sun	E04F 13/18	(72) Lei Si
Wei Cui	E04F 13/16	Zhongbin Wang
Chunxi Jiang	E04F 13/14	Dong Wei
Bohong Liu	(21) 2028616	Chao Tan
Hongyuan Zhao	(22) 02.07.2021	Haifeng Yan
Shilin Liu	(54) Wall panel for forming a wall covering with multiple panels	Hao Wang
Libin Zhang	(71) I4F LICENSING NV	Xuliang Lu
Fang Su	(74) ir. H.Th. van den Heuvel c.s.	Jiahao Li
(31) 202111450476.1		Jinheng Gu
(32) 01.12.2021		
(33) China		

Jianbo Dai	Abraham Hendrik Hooghart	(71) LUMICKS CA Holding B.V.
(31) 2021107609947	(31) 102021207060.4	(74) ir. A.R. Aalbers
(32) 06.07.2021	(32) 06.07.2021	(72) Douwe Kamsma
(33) China	(33) Germany	Felix Oswald
(51) F01N 3/02	(51) F25B 11/00	(41) 10.01.2023
(21) 2033432	F24H 4/02	(51) G01N 15/14
(22) 31.10.2022	(21) 2028575	B01L 3/00
(54) SMOKE-REMOVING EQUIPMENT FOR	(22) 29.06.2021	G01N 21/64
THERMAL POWER GENERATION	(54) Verwarmingstoestel	(21) 2028613
(71) Inner Mongolia Shangdu Power	(71) Tarnoc Holding B.V.	(22) 02.07.2021
Generation Co., Ltd	(74) drs. A.A. Jilderda	(54) Local area photoactivation
(74) ir. M.B. Plaggenborg	(72) Tijmen Daniel de Jong	(71) LUMICKS CA Holding B.V.
(72) Hongfei Chang	Vincent Anton Everard Wijdeveld	(74) ir. A.R. Aalbers
Xuyang Sun	(41) 09.01.2023	(72) Marinus Theodorus Johannes van
Yajun Luo	(51) F28F 13/00	Loenhout
Ming Li	F28D 7/00	(41) 10.01.2023
Zhiqiang Yao	B63H 21/38	(51) G01N 21/78
(31) 202211275724.8	F28F 9/00	G01N 33/14
(32) 18.10.2022	F28F 9/02	G01N 21/29
(33) China	F28F 9/24	G01N 31/22
(51) F02B 75/02	(21) 2028602	G01K 11/12
(21) 2028576	(22) 01.07.2021	(21) 2028595
(22) 29.06.2021	(54) Marine Diesel Power System	(22) 30.06.2021
(54) Internal combustion engine arranged	(71) Wuhan Second Ship Design and	(54) DEVICE AND METHOD FOR
for conducting a six-stroke internal	Research Institute	INDICATING A CONCENTRATION OF A
combustion process.	(74) S. Eeckhaoudt PhD	BEVERAGE
(71) DAF Trucks N.V.	(72) Wei Wang	(71) Ron Sloof Holding B.V.
(74) ir. H.A. Witmans c.s.	Yuansheng Lin	A.J.M. Tilburg Holding B.V.
(72) Abraham Wessel Hakstege	Zhiwu Ke	(74) dr. ir. G.J.C. Verdijck c.s.
(41) 09.01.2023	Zhiqiang Qiu	(72) Ronald Sloof
(51) F02D 9/06	Zhenxing Zhao	Adrianus Johannes Maria Tilburg
F02B 37/24	Yongquan Li	(51) G01N 29/04
F02D 41/00	Kelong Zhang	B01F 31/86
(21) 2028589	Hanbing Ke	B01L 3/00
(22) 30.06.2021	Xingsheng Lao	G01N 29/44
(54) A method for controlling a compression	Bangming Li	G10K 15/00
release brake mechanism in a	Zhiguo Wei	G21K 1/00
combustion engine	Kai Chen	(21) 2028593
(71) DAF Trucks N.V.	(41) 10.01.2023	(22) 30.06.2021
(74) ir. H.A. Witmans c.s.	(51) G01B 11/25	(54) Method and system for characterizing
(72) Niek Laurentius Adrianus Hermans	G01S 17/08	an acoustic-based particle manipulation
(41) 09.01.2023	G01S 17/88	device
(51) F16B 7/04	(21) 2031493	(71) LUMICKS CA Holding B.V.
F16B 7/20	(22) 04.04.2022	(74) ir. A.R. Aalbers
(21) 2028617	(54) Underwater three-dimensional scanning	(72) Douwe Kamsma
(22) 02.07.2021	device based on crosshair scanning	Felix Oswald
(54) Connector, configured to be used in	(71) Zhejiang University	Amanda Caroline Franklin
combination with a strut, and strut	(74) dr. T. Wittop Koning PhD	(41) 10.01.2023
comprising such a connector	(72) Zhiguo He	(51) G01S 13/95
(71) Holmatro B.V.	Mengjie Wang	G01S 13/50
(74) dr. ir. G.J.C. Verdijck c.s.	Xuehao Feng	(21) 2030904
(72) Antonius Johannes Henricus Bruurs	Hong Song	(22) 11.02.2022
René Wilhelmus Johannes van	Hui Huang	(54) Radar echo extrapolation method based
Eindhoven	Zixin Li	on cross tracking method and spatial
Sebastian Post	Wen Xu	filtering
Roelof Richard Schipper	(31) 202110742564.2	(71) Jiangxi Normal University
Gijsbert van der Voet	(32) 01.07.2021	Meteorological Sciences Institute of
(41) 10.01.2023	(33) China	Jiangxi Province
(51) F16M 5/00	(51) G01K 11/26	(74) dr. T. Wittop Koning PhD
F16M 7/00	G01N 15/14	(72) Haibo Zou
(21) 2032304	G01N 29/032	Shanshan Wu
(22) 28.06.2022	G01K 15/00	Jiusheng Shan
(54) Adjustable levelling kit and associated	B01L 3/00	(41) 06.01.2023
installation method	(21) 2028594	(51) G02B 6/42
(71) Aktiebolaget SKF	(22) 30.06.2021	(21) 2028604
(74) J. Hoekstra	(54) Method for measuring fluid temperature	(22) 01.07.2021
(72) Rene Vermeulen	in an acoustic-based particle	
	manipulation device	

<p>(54) Photon detector system with distance control (71) Single Quantum B.V. (74) dr. ir. G.J.C. Verdijck c.s. (72) John van der Ende Johannes Willem Nicolaas Los Andreas Walter Fognini (41) 10.01.2023</p> <hr/> <p>(51) G06F 3/12 (21) 2028612 (22) 02.07.2021 (54) System for processing 3D print jobs (71) ULTIMAKER B.V. (74) dr. R.C. van Duijvenbode c.s. (72) Chris ter Beke (41) 10.01.2023</p> <hr/> <p>(51) G06F 9/50 G06N 3/02 (21) 2031440 (22) 29.03.2022 (54) METHOD AND SYSTEM FOR SELECTING TASK OFFLOADING NODE (71) Shandong Normal University (74) ir. M.B. Plaggenborg (72) Chuanfen Feng Ke Liu Jiande Sun (31) 202110752636.1 (32) 02.07.2021 (33) China</p> <hr/> <p>(51) H01J 37/26 (21) 2032349 (22) 01.07.2022 (54) Method for area-wise inspecting a sample by means of a multi-beam particle microscope, computer program product and multi-beam particle microscope for semiconductor sample inspection (71) Carl Zeiss MultiSEM GmbH (74) ir. H.A. Witmans c.s. (72) Dirk Zeidler Daniel Boecker (31) 10 2021 116 969.0 (32) 01.07.2021 (33) Germany</p> <hr/> <p>(51) H01L 29/06 H01L 27/10 H01L 29/41 H01L 29/423 H01L 29/66 H01L 29/76 (21) 2028581 (22) 29.06.2021 (54) An addressable quantum dot array (71) Technische Universiteit Delft (74) ir. A.R. Aalbers (72) Menno Veldhorst Nico Willem Hendrickx (41) 09.01.2023</p> <hr/> <p>(51) H01L 29/06 H01L 27/10 H01L 29/423 H01L 29/66 H01L 29/76 (21) 2028596 (22) 30.06.2021</p>	<p>(54) Controlling uniformity of an array of quantum dots (71) Technische Universiteit Delft (74) ir. A.R. Aalbers (72) Menno Veldhorst Nico Willem Hendrickx (41) 10.01.2023</p> <hr/> <p>(51) H01L 29/06 H01L 27/10 H01L 29/423 H01L 29/66 H01L 29/76 H01L 29/41 (21) 2028580 (22) 29.06.2021 (54) Quantum dot structures comprising an integrated single electron tunneling readout and single electron tunneling quantum dot readout structures (71) Technische Universiteit Delft (74) ir. A.R. Aalbers (72) Menno Veldhorst Nico Willem Hendrickx (41) 09.01.2023</p> <hr/> <p>(51) H01P 5/08 H01R 13/24 H01R 24/50 (21) 2028607 (22) 01.07.2021 (54) Transmission line (71) Delft Circuits B.V. (74) dr. R.C. van Duijvenbode c.s. (72) Sal Jua Bosman Wouter Martinus Gerard Bos Kiefer James Vermeulen Riemer Sorgedragger Chun Heung Wong Robertus Franciscus Maria van der Brink (41) 10.01.2023</p> <hr/> <p>(51) H01S 3/117 (21) 2032229 (22) 21.06.2022 (54) A-O Q-SWITCHED SOLID-STATE LASER DEVICE WITH ADJUSTABLE PULSE OUTPUT AND PULSED LASER GENERATION METHOD (71) INSTITUTE OF SEMICONDUCTORS, CHINESE ACADEMY OF SCIENCES (74) ir. H.Th. van den Heuvel c.s. (72) Hongyang Wang Zhiyong Dong Xuechun Lin Zhiyan Zhang Haijun Yu Shusen Zhao (31) 202110754231.1 (32) 02.07.2021 (33) China</p> <hr/> <p>(51) H02M 1/00 H02J 3/38 H02M 3/158 H02M 3/335 B60L 8/00 B60L 50/60 (21) 2028567 (22) 29.06.2021 (54) Scalable Multi-Port Converter for Solar Electric Vehicles</p>	<p>(71) Atlas Technologies Holding B.V. (74) ir. J.C. Volmer c.s. (72) Marald Otten Bastiaan Joannes Daniël Vermulst Bart Franciscus Joseph Bokmans (41) 09.01.2023</p> <hr/> <p>(51) H05G 2/00 G03F 7/20 (21) 2032043 (22) 01.06.2022 (54) EXTREME ULTRAVIOLET LIGHT GENERATION APPARATUS AND ELECTRONIC DEVICE MANUFACTURING METHOD (71) GIGAPHOTON INC. (74) ir. H.A. Witmans c.s. (72) Koutaro Miyashita (31) 2021-111238 (32) 05.07.2021 (33) Japan</p>
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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) A23J 3/34 C07K 5/083 A61P 19/02 C07K 14/78 A23J 3/06 A23J 1/10 C12P 21/06 A23L 33/17 A61K 38/00	(54) Disc for a medicine unit delivery device, medicine unit delivery device comprising such disk, and method for configuring a medicine unit delivery device	(22) 01.07.2021 (54) METHOD FOR CHEMICAL ABSORPTION AND RECOVERY OF CO2 WITH LOW ENERGY CONSUMPTION
(11) 2031244 (47) 06.01.2023 (22) 10.03.2022	(73) DD Innovations B.V. (72) Dennis Raymond Bijlsma (74) ir. M. van der Velden	(73) WFU B.V. (72) Christiaan Leo Evert Nijst Franciscus Johannes Maria Schrauwen
(54) SYSTEM FOR PREPARING COLLAGEN TRIPEPTIDE (GLY-X-Y) MICROPARTICLES	(51) A61K 9/70 (11) 2028566 (47) 09.01.2023 (22) 29.06.2021	(74) dr. ir. G.J.C. Verdijck c.s.
(73) JELLICE PIONEER PRIVATE LIMITED (72) Hung-Yuan Kao (74) G.R. Sach (31) 110203645 (32) 04.04.2021 (33) Taiwan, Province of China	(54) Een zinkzout huidpleister en werkwijzen	(51) B01D 65/06 B01D 65/10 B01D 71/82
(51) A23P 20/12 (11) 2028570 (47) 09.01.2023 (22) 29.06.2021	(73) Simons Care Innovation Group B.V. (72) Simon Thijs (74) mr. ir. J. van Breda c.s.	(11) 2028592 (47) 10.01.2023 (22) 30.06.2021
(54) COATING DEVICE AND METHOD	(51) A61N 1/36 A61N 1/372 H04L 9/00	(54) METHOD FOR RECOVERY OF SELECTIVITY OF A POLYELECTROLYTE MULTILAYER (PEM) MEMBRANE
(73) Marel Further Processing B.V. (72) Bart Henricus Jozef Verberk Wilhelmus Johannes Jacobus Maria van der Straaten Luc Wilhelmus Antonius Dorpmanns Johannes Martinus Meulendijks	(11) 2028563 (47) 09.01.2023 (22) 29.06.2021	(73) NX Filtration Holding B.V. (72) Dennis Maik Reurink Joris de Grooth
(74) ir. J.C. Volmer c.s.	(54) implantable medical device and control device therefor	(74) dr. ir. G.J.C. Verdijck c.s.
(51) A47F 3/04 (11) 2028619 (47) 10.01.2023 (22) 02.07.2021	(73) Erasmus University Medical Center Rotterdam (72) Muhammad Ali Siddiqi Christos Strydis Christiaan Innocentius de Zeeuw	(51) B05B 11/00 A45D 19/02 (11) 1044078 (47) 09.01.2023 (22) 29.06.2021
(54) Koelmeubel	(74) ir. H.A. Witmans c.s.	(54) SMART WATER SPRAYER
(73) Smeva B.V. (72) Patrick Albert Lucas Johannes Antonius Hubertina van Gils	(51) A61N 1/372 A61N 1/36 H04L 9/00	(73) Rafi Achmed Basarat (72) Rafi Achmed Basarat
(74) drs. A.A. Jilderda	(11) 2028564 (47) 09.01.2023 (22) 29.06.2021	(51) B23Q 7/04 B23Q 1/62 B23Q 1/48 B25J 15/08 B65G 61/00 B65G 47/90 B21D 43/10
(51) A61F 9/00 (11) 2028615 (47) 10.01.2023 (22) 02.07.2021	(54) implantable medical device and control device therefor	(11) 2028614 (47) 10.01.2023 (22) 02.07.2021
(54) Device, kit and method for ocular administration of fluids	(73) Erasmus University Medical Center Rotterdam (72) Muhammad Ali Siddiqi Christos Strydis Christiaan Innocentius de Zeeuw	(54) Gripper truck assembly, machining system, and method of moving a workpiece with respect to a machining station
(73) Mind Scouts Innovators B.V. (72) Johannes Hubertus Jozef Maria Kelders Eduard van Veldhoven Wouter Marius Stinesen	(74) ir. H.A. Witmans c.s.	(73) Voortman Steel Machinery Holding B.V. (72) Frans Herman Volmer Han Hermannus ter Horst
(74) ir. H.Th. van den Heuvel c.s.	(51) B01D 17/02 B01D 17/04 B01D 19/00 B01D 21/00	(74) ir. H.A. Witmans c.s.
(51) A61J 7/00 G07F 17/00 (11) 2028489 (47) 09.01.2023 (22) 20.06.2021	(11) 2028588 (47) 09.01.2023 (22) 30.06.2021	(51) B29C 45/44 B29C 33/48 B29C 45/14 (11) 1044079 (47) 09.01.2023 (22) 30.06.2021
	(54) Density-based separator	(54) Mould
	(73) Cool Separations B.V. (72) Jaap van Spronsen Jordy Otten	(73) Antoine Robert van Dongen (72) Antoine Robert van Dongen (74) drs. O. Griebeling
	(74) ir. H.A. Witmans c.s.	(51) B60H 1/00
	(51) B01D 53/14 B01D 53/18 B01D 53/62	
	(11) 2028603 (47) 10.01.2023	

B60H 1/03	(47) 09.01.2023	(72) Dirk Kouwenhoven
(11) 2028583	(22) 29.06.2021	(74) dr. ir. G.J.C. Verdijck c.s.
(47) 09.01.2023	(54) Vehicle, method for controlling a brake system of a vehicle, and computer program	(51) C12N 9/50
(22) 30.06.2021		C12P 21/06
(54) Vehicle cabin climate control system		C12N 9/24
(73) Atlas Technologies Holding B.V.	(73) Atlas Technologies Holding B.V.	C12N 5/071
(72) Cornelis Huijben	(72) Durandus Kornelius Dijken	(11) 2032370
Durandus Kornelius Dijken	Jaap van de Vorst	(47) 06.01.2023
Marc Johannes Magdalena Graaf	(74) ir. J.C. Volmer c.s.	(22) 05.07.2022
(74) ir. J.C. Volmer c.s.	(51) B62J 50/15	(54) Method for Preparing Histone Samples of Gastric Mucosa
(51) B60H 1/00	(11) 2030376	(73) Zhejiang Chinese Medical University
B60H 1/03	(47) 10.01.2023	(72) Xiaowei Zheng
(11) 2028586	(22) 31.12.2021	(72) Wangqin Yu
(47) 09.01.2023	(54) A BRUSH CAP FITTED WITH A LIQUID CONTAINER FOR CLEANING AND/OR LUBRICATION OF A CHAIN AND SPECIFICALLY A DRIVE CHAIN	(74) dr. T. Wittop Koning PhD
(22) 30.06.2021		(51) C22B 1/11
(54) Vehicle cabin climate control system		C22B 1/16
(73) Atlas Technologies Holding B.V.	(73) SCRUBER	(11) 2032333
(72) Marc Johannes Magdalena Graaf	(72) Werner Kerkhove	(47) 10.01.2023
Cornelis Huijben	(74) ir. J.P.E. Brants	(22) 30.06.2022
Durandus Kornelius Dijken	(31) PCT/EP2021/068399	(54) HYDROGEN-RICH SINTERING GASIFICATION DEPHOSPHORIZATION RECOVERY SYSTEM AND METHOD
(74) ir. J.C. Volmer c.s.	(32) 02.07.2021	(73) University of Science and Technology Beijing
(51) B60H 1/03	(33) European Patent Office (EPO)	(72) Haibin Zuo
(11) 2028582	(51) B63B 35/00	Yanbiao Chen
(47) 09.01.2023	B63B 25/28	(74) ir. M.B. Plaggenborg
(22) 30.06.2021	F03D 13/40	(31) 202110753588.8
(54) Vehicle cabin climate control system	B63B 77/10	(32) 02.07.2021
(73) Atlas Technologies Holding B.V.	(11) 2028568	(33) China
(72) Cornelis Huijben	(47) 09.01.2023	(51) E01C 5/00
Marc Johannes Magdalena Graaf	(22) 29.06.2021	(11) 2028579
Durandus Kornelius Dijken	(54) Tubular wind turbine component support for large tubular wind turbine components	(47) 09.01.2023
(74) ir. J.C. Volmer c.s.	(73) Heerema Marine Contractors Nederland SE	(22) 29.06.2021
(51) B60H 1/03	(72) Paul Antonius Alphonsus Geene	(54) Verharde weg en werkwijze voor het leggen van een verharde weg
(11) 2028587	(74) ir. J.C. Volmer c.s.	(73) Biobound B.V.
(47) 09.01.2023	(51) C02F 1/28	(72) Jacobus Gerhard Nicolaas Schotanus
(22) 30.06.2021	B01D 71/38	(74) dr. T. Wittop Koning PhD
(54) Vehicle cabin climate control system	B01D 71/02	(51) E03C 1/242
(73) Atlas Technologies Holding B.V.	B01D 71/74	(11) 2028578
(72) Durandus Kornelius Dijken	(11) 2028569	(47) 09.01.2023
Cornelis Huijben	(47) 09.01.2023	(22) 29.06.2021
Marc Johannes Magdalena Graaf	(22) 29.06.2021	(54) OPZETSTUK VOOR TAPWATERKRAAN EN WERKWIJZE VOOR HET MET VLOEISTOF VULLEN VAN EEN HOUDER
(74) ir. J.C. Volmer c.s.	(54) PREPARATION METHOD OF MgO/GQD/CHITOSAN OLIGOSACCHARIDE/PVA COMPOSITE ADSORPTIVE MEMBRANE	(73) Holding Krulstaart B.V.
(51) B60H 1/03	(73) Qufu Normal University	(72) Bernardus Johannes Wit
B60H 1/32	(72) Ge Yang	(74) dr. ir. G.J.C. Verdijck c.s.
(11) 2028585	Xiaochi An	(51) E03F 5/06
(47) 09.01.2023	Chengchuan Che	(11) 2031994
(22) 30.06.2021	Jinfeng Liu	(47) 06.01.2023
(54) Vehicle cabin climate control system	Zhijin Gong	(22) 26.05.2022
(73) Atlas Technologies Holding B.V.	(74) ir. F.A. Geurts c.s.	(54) ENVIRONMENTAL-PROTECTION RAINWATER INLET PIPELINE FILTER DEVICE FOR ECOLOGICAL GREEN BELT OF MUNICIPAL ROAD
(72) Durandus Kornelius Dijken	(51) C08G 18/08	(73) TRANSPORTATION ENGINEERING BRANCH OF CHINA RAILWAY THIRD BUREAU GROUP CO., LTD
Cornelis Huijben	C08G 18/24	CHINA RAILWAY THIRD BUREAU GROUP CO.,LTD
Marc Johannes Magdalena Graaf	C08G 18/48	CHINA RAILWAY NORTHEAST INVESTMENT DEVELOPMENT CO., LTD
(74) ir. J.C. Volmer c.s.	C08G 18/36	
(51) B60L 1/00	C09D 175/06	
B60L 8/00	C08G 18/66	
B60L 50/52	C09D 175/08	
(11) 2028562	(11) 2028611	
(47) 09.01.2023	(47) 10.01.2023	
(22) 29.06.2021	(22) 02.07.2021	
(54) Seamless electrical integration of solar panels to the low-voltage architecture of any EV	(54) ELASTIC POLYMER COATING COMPOSITION FOR COATING OF A WALL OR CEILING SURFACE	
(73) Atlas Technologies Holding B.V.	(73) Sinck&Ko B.V.	
(72) Soumya Bandyopadhyay		
(74) ir. J.C. Volmer c.s.		
(51) B60T 7/00		
B60T 8/17		
(11) 2028565		

- (72) Mantian Xing
Junbao Lu
Chong Tian
Jinguang Guo
YanJun Lv
Deyong Che
Yunhui Zhang
(74) ir. M.B. Plaggenborg
- (51) E04F 13/08
E04F 13/18
E04F 13/16
E04F 13/14
(11) 2028616
(47) 10.01.2023
(22) 02.07.2021
(54) Wall panel for forming a wall covering with multiple panels
(73) I4F LICENSING NV
(72) Eddy Alberic Boucké
(74) ir. H.Th. van den Heuvel c.s.
(51) E04G 21/04
F04B 15/02
F04B 17/03
F04B 17/06
F04B 49/06
F04B 49/20
(11) 2028622
(47) 10.01.2023
(22) 02.07.2021
(54) MOBILE CONCRETE PUMP
(73) RvR Betonpomp Verhuur B.V.
(72) Hendrik van Rijs
(74) ir. A. van der Maarl
- (51) E04H 4/12
(11) 2028610
(47) 10.01.2023
(22) 02.07.2021
(54) ZWEMBAD VOORZIEN VAN VERWARMINGS- EN/OF KOELMIDDELEN
(73) Josephus Joannes Franciscus van Iersel
(72) Josephus Joannes Franciscus van Iersel
(74) dr. R.C. van Duijvenbode c.s.
(51) E21B 7/18
E21B 43/12
(11) 1044081
(47) 10.01.2023
(22) 02.07.2021
(54) Method and devices for unloading flow conduits and improving multi-phase flow capacity.
(73) Dr. Ir. (PhD, MSc) Reza Malekzadeh
Ir. (Msc) Mark Gilbert Sisouw de Zilwa
(72) Dr. Ir. (PhD, MSc) Reza Malekzadeh
Ir. (Msc) Mark Gilbert Sisouw de Zilwa
- (51) F02B 75/02
(11) 2028576
(47) 09.01.2023
(22) 29.06.2021
(54) Internal combustion engine arranged for conducting a six-stroke internal combustion process.
(73) DAF Trucks N.V.
(72) Abraham Wessel Hakstege
(74) ir. H.A. Witmans c.s.
(51) F02D 9/06
F02B 37/24
- F02D 41/00
(11) 2028589
(47) 09.01.2023
(22) 30.06.2021
(54) A method for controlling a compression release brake mechanism in a combustion engine
(73) DAF Trucks N.V.
(72) Niek Laurentius Adrianus Hermans
(74) ir. H.A. Witmans c.s.
(51) F16B 7/04
F16B 7/20
(11) 2028617
(47) 10.01.2023
(22) 02.07.2021
(54) Connector, configured to be used in combination with a strut, and strut comprising such a connector
(73) Holmatro B.V.
(72) Antonius Johannes Henricus Bruurs
René Wilhelmus Johannes van Eindhoven
Sebastian Post
Roelof Richard Schipper
Gijsbert van der Voet
(74) dr. ir. G.J.C. Verdijk c.s.
(51) F25B 11/00
F24H 4/02
(11) 2028575
(47) 09.01.2023
(22) 29.06.2021
(54) Verwarmingstoestel
(73) Tarnoc Holding B.V.
(72) Tijmen Daniel de Jong
Vincent Anton Everard Wijdeveld
(74) drs. A.A. Jilderda
(51) F28F 13/00
F28D 7/00
B63H 21/38
F28F 9/00
F28F 9/02
F28F 9/24
(11) 2028602
(47) 10.01.2023
(22) 01.07.2021
(54) Marine Diesel Power System
(73) Wuhan Second Ship Design and Research Institute
(72) Wei Wang
Yuansheng Lin
Zhiwu Ke
Zhiqiang Qiu
Zhenxing Zhao
Yongquan Li
Kelong Zhang
Hanbing Ke
Xingsheng Lao
Bangming Li
Zhiguo Wei
Kai Chen
(74) S. Eeckhaoutd PhD
(51) G01B 11/245
G01B 11/16
B60M 1/28
(11) 2030934
(47) 06.01.2023
(22) 14.02.2022
- (54) NON-CONTACT MEASUREMENT DEVICE FOR LOAD OF INTEGRATED SLING OF RAILWAY CATENARY
(73) Southwest Jiaotong University
(72) Ru'nan Liang
Jiao Chen
Jidong Liu
Feng Han
Weirong Chen
Jiqin Wu
Junying Cheng
(74) ir. M.B. Plaggenborg
- (51) G01K 11/26
G01N 15/14
G01N 29/032
G01K 15/00
B01L 3/00
(11) 2028594
(47) 10.01.2023
(22) 30.06.2021
(54) Method for measuring fluid temperature in an acoustic-based particle manipulation device
(73) LUMICKS CA Holding B.V.
(72) Douwe Kamsma
Felix Oswald
(74) ir. A.R. Aalbers
- (51) G01N 3/04
G01N 3/06
G01N 3/24
G01N 3/28
G01M 11/08
G01N 3/10
G01L 1/24
E21D 21/02
(11) 2030040
(47) 10.01.2023
(22) 06.12.2021
(54) DEVICE AND METHOD FOR TESTING OVERALL ANCHORAGE PERFORMANCE OF BASALT FIBER REINFORCED PLASTIC (BFRP) ANCHOR CABLE
(73) Wuhan Center, China Geological Survey
(Central South China Innovation Center for Geosciences)
(72) Ye Runqing
Dai Zhenwei
Zhang Yanjun
Fu Xiaolin
Guo Jinjun
Du Zhigang
(74) dr. T. Wittop Koning PhD
(31) 202110666853.9
(32) 16.06.2021
(33) China
- (51) G01N 15/14
B01L 3/00
G01N 21/64
(11) 2028613
(47) 10.01.2023
(22) 02.07.2021
(54) Local area photoactivation
(73) LUMICKS CA Holding B.V.
(72) Marinus Theodorus Johannes van Loenhout
(74) ir. A.R. Aalbers
(51) G01N 21/78

G01N 33/14	(11) 2028595	(11) 2029433	(54) Quantum dot structures comprising an integrated single electron tunneling readout and single electron tunneling quantum dot readout structures
G01N 21/29	(47) 10.01.2023	(47) 06.01.2023	(73) Technische Universiteit Delft
G01N 31/22	(22) 30.06.2021	(22) 15.10.2021	(72) Menno Veldhorst
G01K 11/12	(54) DEVICE AND METHOD FOR INDICATING A CONCENTRATION OF A BEVERAGE	(54) METHOD AND SYSTEM FOR CLUSTERING EXECUTABLE FILES	(74) ir. A.R. Aalbers
(11) 2028595	(73) Ron Sloof Holding B.V.	(73) Group IB TDS, Ltd	(51) H01P 5/08
(47) 10.01.2023	A.J.M. Tilburg Holding B.V.	(72) Ilia Sergeevich Pomerantsev	H01R 13/24
(22) 30.06.2021	(72) Ronald Sloof	(74) ir. A.R. Aalbers	H01R 24/50
(54) DEVICE AND METHOD FOR INDICATING A CONCENTRATION OF A BEVERAGE	(74) dr. ir. G.J.C. Verdijck c.s.	(31) RU2021108261	(11) 2028607
(73) Ron Sloof Holding B.V.	A.J.M. Tilburg Holding B.V.	(32) 29.03.2021	(47) 10.01.2023
A.J.M. Tilburg Holding B.V.	(72) Ronald Sloof	(33) Russian Federation	(22) 01.07.2021
(72) Ronald Sloof	Adrianus Johannes Maria Tilburg	(51) G06Q 10/06	(54) Transmission line
Adrianus Johannes Maria Tilburg	(74) dr. ir. G.J.C. Verdijck c.s.	G06Q 10/10	(73) Delft Circuits B.V.
(74) dr. ir. G.J.C. Verdijck c.s.	(51) G01N 29/04	G06Q 50/26	(72) Sal Jua Bosman
(51) G01N 29/04	B01F 31/86	(11) 2030102	Wouter Martinus Gerard Bos
B01F 31/86	B01L 3/00	(47) 06.01.2023	Kiefer James Vermeulen
B01L 3/00	G01N 29/44	(22) 10.12.2021	Riemer Sorgedragter
G01N 29/44	G10K 15/00	(54) COMPUTER SYSTEM AND METHOD BASED ON EVALUATION OF A REGIONAL AIR POLLUTION REGULATION PLAN	Chun Heung Wong
G10K 15/00	G21K 1/00	(73) Tianjin University	Robertus Franciscus Maria van der Brink
G21K 1/00	(11) 2028593	(72) Ning Jia	(74) dr. R.C. van Duijvenbode c.s.
(11) 2028593	(47) 10.01.2023	Xuanwen Xing	(51) H02M 1/00
(47) 10.01.2023	(22) 30.06.2021	Huibin Du	H02J 3/38
(22) 30.06.2021	(54) Method and system for characterizing an acoustic-based particle manipulation device	Zengkai Zhang	H02M 3/158
(54) Method and system for characterizing an acoustic-based particle manipulation device	(73) LUMICKS CA Holding B.V.	(74) ir. W.J.J.M. Kempes	H02M 3/335
(73) LUMICKS CA Holding B.V.	(72) Douwe Kamsma	(31) 202110293191.5	B60L 8/00
(72) Douwe Kamsma	Felix Oswald	(32) 18.03.2021	B60L 50/60
Felix Oswald	Amanda Caroline Franklin	(33) China	(11) 2028567
Amanda Caroline Franklin	(74) ir. A.R. Aalbers	(51) H01L 29/06	(47) 09.01.2023
(74) ir. A.R. Aalbers	(51) G01S 13/95	H01L 27/10	(22) 29.06.2021
(51) G01S 13/95	G01S 13/50	H01L 29/41	(54) Scalable Multi-Port Converter for Solar Electric Vehicles
G01S 13/50	(11) 2030904	H01L 29/423	(73) Atlas Technologies Holding B.V.
(11) 2030904	(47) 06.01.2023	H01L 29/66	(72) Marald Otten
(47) 06.01.2023	(22) 11.02.2022	H01L 29/76	Bastiaan Joannes Daniël Vermulst
(22) 11.02.2022	(54) Radar echo extrapolation method based on cross tracking method and spatial filtering	(11) 2028581	Bart Franciscus Joseph Bokmans
(54) Radar echo extrapolation method based on cross tracking method and spatial filtering	(73) Jiangxi Normal University	(47) 09.01.2023	(74) ir. J.C. Volmer c.s.
(73) Jiangxi Normal University	Meteorological Sciences Institute of Jiangxi Province	(22) 29.06.2021	
Meteorological Sciences Institute of Jiangxi Province	(72) Haibo Zou	(54) An addressable quantum dot array	
(72) Haibo Zou	Shanshan Wu	(73) Technische Universiteit Delft	
Shanshan Wu	Jiusheng Shan	(72) Menno Veldhorst	
Jiusheng Shan	(74) dr. T. Wittop Koning PhD	Nico Willem Hendrickx	
(74) dr. T. Wittop Koning PhD	(51) G02B 6/42	(74) ir. A.R. Aalbers	
(51) G02B 6/42	(11) 2028604	(51) H01L 29/06	
(11) 2028604	(47) 10.01.2023	H01L 27/10	
(47) 10.01.2023	(22) 01.07.2021	H01L 29/423	
(22) 01.07.2021	(54) Photon detector system with distance control	H01L 29/66	
(54) Photon detector system with distance control	(73) Single Quantum B.V.	H01L 29/76	
(73) Single Quantum B.V.	(72) John van der Ende	(11) 2028596	
(72) John van der Ende	Johannes Willem Nicolaas Los	(47) 10.01.2023	
Johannes Willem Nicolaas Los	Andreas Walter Fognini	(22) 30.06.2021	
Andreas Walter Fognini	(74) dr. ir. G.J.C. Verdijck c.s.	(54) Controlling uniformity of an array of quantum dots	
(74) dr. ir. G.J.C. Verdijck c.s.	(51) G06F 3/12	(73) Technische Universiteit Delft	
(51) G06F 3/12	(11) 2028612	(72) Menno Veldhorst	
(11) 2028612	(47) 10.01.2023	Nico Willem Hendrickx	
(47) 10.01.2023	(22) 02.07.2021	(74) ir. A.R. Aalbers	
(22) 02.07.2021	(54) System for processing 3D print jobs	(51) H01L 29/06	
(54) System for processing 3D print jobs	(73) ULTIMAKER B.V.	H01L 27/10	
(73) ULTIMAKER B.V.	(72) Chris ter Beke	H01L 29/423	
(72) Chris ter Beke	(74) dr. R.C. van Duijvenbode c.s.	H01L 29/66	
(74) dr. R.C. van Duijvenbode c.s.	(51) G06F 21/56	H01L 29/76	
(51) G06F 21/56		H01L 29/41	
		(11) 2028580	
		(47) 09.01.2023	
		(22) 29.06.2021	

NP3

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

EP1

Vertaalde conclusies van Europese octrooiaanvragen.

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

EP2

Voor Nederland verleende Europese octrooien.

Contains data concerning European patents granted for The Netherlands.

(51) A01B 69/04 G05D 1/02	(51) A01D 75/00 A01B 73/00	03.09.2020
(11) EP3595427	(11) EP3659427	(22) 09.12.2019
(21) EP18714961.2	(21) EP19212234.9	(54) BATTERY PLACEMENT WITH SENSOR
(47) 11.01.2023	(47) 11.01.2023	(73) HUSQVARNA AB
(87) DE2018100217 20.09.2018	(22) 28.11.2019	(72) BURGER, Victor WILK, Christian
(22) 09.03.2018	(54) LATERALLY OFFSET TRANSPORT WHEELS ON HARVESTING HEADER	BROBEIL, Achim
(54) METHOD FOR PLANNING THE WORKING OF AN AGRICULTURAL FIELD	(73) CNH Industrial Belgium N.V.	(31) 102019001318
(73) Lemken GmbH & Co KG	(72) Beidler, Lyle	(32) 25.02.2019
(72) VAN HAAREN, Josef VAN DEN BOOM, Marco	Hunt, Cory Douglas Todderud, Stephen	(33) Germany
(31) 102017105773	(31) 201816206055	(51) A01G 25/16
(32) 17.03.2017	(32) 30.11.2018	(11) EP3927144
(33) Germany	(33) United States of America	(21) EP19820704.5
(51) A01B 79/00 A01C 21/00	(51) A01D 80/02 A01D 89/00 E01H 15/00	(47) 11.01.2023
(11) EP3175694	(11) EP3932176	(87) EP2019084228 27.08.2020
(21) EP16401091.0	(21) EP21180876.1	(22) 09.12.2019
(47) 11.01.2023	(47) 11.01.2023	(54) INDEPENDENT IRRIGATION CONTROLLER
(22) 25.11.2016	(22) 22.06.2021	(73) HUSQVARNA AB
(54) METHOD FOR DISTRIBUTION OF AGRICULTURAL DISTRIBUTED MATERIAL, CONTROL FOR A SPREADER FOR AGRICULTURAL DISTRIBUTED MATERIAL, AND DISTRIBUTOR FOR AGRICULTURAL DISTRIBUTED MATERIAL	(54) DRUM FOR A PICK-UP DEVICE	(72) RAUCH, Martin WILK, Christian
(73) Amazonen-Werke H. Dreyer SE & Co. KG	(73) B. Strautmänn & Söhne GmbH u. Co. KG	(31) 102019001271
(72) Heer, Jochen Kühn, Christoph Sia, Tim-Randy	(72) Strautmänn, Wolfgang	(32) 22.02.2019
(31) 102015120869	(31) 102020117038	(33) Germany
(32) 02.12.2015	(32) 29.06.2020	(51) A01K 97/01 A01K 91/10
(33) Germany	(33) Germany	(11) EP3911155
(51) A01D 43/077	(51) A01G 3/025 A01G 3/033	(21) EP20702377.1
(11) EP3045032	(11) EP3876696	(47) 11.01.2023
(21) EP15158544.5	(21) EP19805892.7	(87) IB2020050227 23.07.2020
(47) 11.01.2023	(47) 11.01.2023	(22) 13.01.2020
(22) 11.03.2015	(87) EP2019000308 14.05.2020	(54) AN ANGLING DEVICE
(54) Grass cutter	(22) 07.11.2019	(73) Stubbs, David
(73) Kubota Corporation	(54) LOPPING SHEAR OR LOPPER	(72) Stubbs, David
(72) Walden, Robert	(73) ARCHMAN S.R.L.	(31) 201900517
(31) 201514597571	(72) PITTAU, Giovanni	(32) 15.01.2019
(32) 15.01.2015	(31) 201800010192	(33) United Kingdom
(33) United States of America	(32) 09.11.2018	(51) A01M 7/00
(51) A01D 45/02	(33) Italy	(11) EP3488692
(11) EP3659423	(51) A01G 24/28 A01G 24/46	(21) EP18208269.3
(21) EP19212238.0	(11) EP3876700	(47) 11.01.2023
(47) 11.01.2023	(21) EP19820814.2	(22) 26.11.2018
(22) 28.11.2019	(47) 11.01.2023	(54) PHYTOSANITARY PRODUCT RECOVERY PANEL AND SPRAYING MACHINE
(54) AGRICULTURAL HARVESTER WITH ONE-WAY OPENING CROP SAVERS	(87) FI2019050738 14.05.2020	(73) Exel Industries
(73) CNH Industrial Belgium N.V.	(22) 16.10.2019	(72) DARRIEUTORT, Anthony MONCHANIN, Raphael
(72) Walker, Eric L.	(54) MOSS GROWTH SUBSTRATE	(31) 1761235
(31) 201816205386	(73) Suomen Puistopuutarhurit Oy	(32) 27.11.2017
(32) 30.11.2018	(72) KÄMÄRÄINEN, Antti	(33) France
(33) United States of America	(31) 20180151 U	(51) A01M 7/00
	(32) 09.11.2018	(11) EP3893637
	(33) Finland	(21) EP20710246.8
	(51) A01G 25/16	(47) 11.01.2023
	(11) EP3930448	(87) FR2020050303 27.08.2020
	(21) EP19817688.5	(22) 18.02.2020
	(47) 11.01.2023	
	(87) EP2019084276	

<p>(54) LID FOR TANK COMPRISING A VENT PROVIDED WITH A FLOAT IN SERIES WITH A BAFFLE (72) Exel Industries (72) PITAUD, Sylvain (31) 1901848 (32) 22.02.2019 (33) France</p> <hr/> <p>(51) A01M 7/00 A01C 23/00 B05B 9/00 (11) EP3893638 (21) EP20710247.6 (47) 11.01.2023 (87) FR2020050305 27.08.2020 (22) 18.02.2020</p> <p>(54) COVER FOR A VESSEL COMPRISING AXIAL LOCKING MEMBERS ON AN OPENING RIM OF THE VESSEL (73) Exel Industries (72) PITAUD, Sylvain (31) 1901841 (32) 22.02.2019 (33) France</p> <hr/> <p>(51) A01N 33/12 A01N 63/38 A01N 63/34 A01N 63/30 A01N 63/27 A01N 63/23 A01N 63/22 A01N 63/20 A01N 25/00 A01N 43/16 C12N 1/20 C12N 1/38 C12N 1/14 (11) EP3886583 (21) EP19816570.6 (47) 11.01.2023 (87) EP2019083108 04.06.2020 (22) 29.11.2019</p> <p>(54) USE OF CATIONIC HYDROXYALKYL GUARS FOR MICROORGANISM GROWTH (73) RHODIA OPERATIONS (72) CASTAING, Jean-Christophe LAMBERT, Florence VERNAY, Clara GABRIEL PESSOA, Marina (31) 18209213 (32) 29.11.2018 (33) European Patent Office (EPO)</p> <hr/> <p>(51) A01N 53/06 A01N 25/18 A01P 7/02 A01P 7/04 A01M 1/20 (11) EP3409118 (21) EP17744303.3 (47) 11.01.2023 (87) JP2017002671 03.08.2017 (22) 26.01.2017</p> <p>(54) AQUEOUS PEST CONTROL LIQUID (73) Sumitomo Chemical Company, Limited</p>	<p>(72) SHIMATA, Tomoki (31) 2016015248 (32) 29.01.2016 (33) Japan</p> <hr/> <p>(51) A21C 15/00 A63H 37/00 (11) EP3923731 (21) EP20713068.3 (47) 11.01.2023 (87) GB2020050360 20.08.2020 (22) 14.02.2020</p> <p>(54) A DEVICE FOR EJECTING ITEMS FROM A CAKE (73) Wow Tubes Ltd (72) HOWIE, Emma Elizabeth STEPHENS, Glenn (31) 201902147 (32) 15.02.2019 (33) United Kingdom</p> <hr/> <p>(51) A23G 1/20 A23G 3/02 A23G 3/20 (11) EP3025588 (21) EP15203092.0 (47) 11.01.2023 (22) 28.06.2005</p> <p>(54) CONFECTIONERY HAVING AN INCLUSION THEREIN (73) Mars, Incorporated (72) PONTZER, David KASHULINES, Peter CROSSLEY, Bob COLLINS, Thomas (31) 900174 (32) 28.07.2004 (33) United States of America</p> <hr/> <p>(51) A23K 10/40 A23K 20/20 A23K 10/38 A23L 33/10 A23L 33/21 (11) EP3142495 (21) EP15789342.1 (47) 11.01.2023 (87) AU2015050233 12.11.2015 (22) 11.05.2015</p> <p>(54) DIGESTIVE SUPPLEMENT TO MITIGATE ADVERSE REACTIONS (73) Hicare Health Foods Pty Limited (72) TIVEY, David VAN DOORE, Frank (31) 2014901724 (32) 09.05.2014 (33) Australia</p> <hr/> <p>(51) A23L 2/02 A23L 2/58 A23L 2/68 A23L 2/84 A23L 29/256 A23L 5/46 (11) EP3911173 (21) EP19805298.7 (47) 11.01.2023 (87) EP2019081806 23.07.2020 (22) 19.11.2019</p>	<p>(54) A COMPOSITION COMPRISING SPIRULINA-EXTRACT (73) GNT Group B.V. (72) MACDONALD, Jane Lee LEEB, Elena VOLKERT, Marcus (31) 201962794074 P 201962794094 P 201962794083 P 201962794104 P 19156444 19156427 19156394 19156440</p> <p>(32) 18.01.2019 18.01.2019 18.01.2019 18.01.2019 11.02.2019 11.02.2019 11.02.2019 11.02.2019</p> <p>(33) United States of America United States of America United States of America United States of America European Patent Office (EPO) European Patent Office (EPO) European Patent Office (EPO) European Patent Office (EPO)</p> <hr/> <p>(51) A23L 2/58 A23L 2/68 A23L 2/84 A23L 29/256 A23L 2/02 (11) EP3911175 (21) EP19805296.1 (47) 11.01.2023 (87) EP2019081792 23.07.2020 (22) 19.11.2019</p> <p>(54) A COLORED BEVERAGE HAVING A LOW PH (73) GNT Group B.V. (72) MACDONALD, Jane Lee LEEB, Elena (31) 201962794074 P 201962794104 P 201962794094 P 201962794083 P 19156394 19156444 19156427 19156440</p> <p>(32) 18.01.2019 18.01.2019 18.01.2019 11.02.2019 11.02.2019 11.02.2019 11.02.2019</p> <p>(33) United States of America United States of America United States of America United States of America European Patent Office (EPO) European Patent Office (EPO)</p>
---	--	--

European Patent Office (EPO)	19156440	(47) 11.01.2023
European Patent Office (EPO)	(32) 18.01.2019	(87) IB2016056185
(51) A23L 2/58	18.01.2019	20.04.2017
A23L 2/68	18.01.2019	(22) 14.10.2016
A23L 2/84	18.01.2019	(54) MULTIPLE-LANE APPARATUS FOR
A23L 29/256	11.02.2019	CUTTING AND CORING FRUITS,
A23L 2/02	11.02.2019	ESPECIALLY SUITABLE FOR
A23L 5/46	11.02.2019	PEACHES
(11) EP3911174	11.02.2019	(73) CTI Foodtech S. R. L.
(21) EP19805295.3	(33) United States of America	(72) CRESCENZO, Biagio
(47) 11.01.2023	United States of America	DI COCCO, Hernan Javier
(87) EP2019081790	United States of America	(31) UB20155294
23.07.2020	United States of America	(32) 16.10.2015
(22) 19.11.2019	European Patent Office (EPO)	(33) Italy
(54) A COLORED FOODSTUFF HAVING A	European Patent Office (EPO)	(51) A24B 3/14
LOW PH	European Patent Office (EPO)	(11) EP3813564
(73) GNT Group B.V.	European Patent Office (EPO)	(21) EP19742135.7
(72) MACDONALD, Jane Lee	(51) A23L 3/01	(47) 11.01.2023
LEEB, Elena	A23L 3/015	(87) EP2019067454
NIEHOFF, Christina	A23L 3/3472	02.01.2020
BIRLA, Clemens	A23L 3/3463	(22) 28.06.2019
(31) 201962794074 P	A23B 4/005	(54) CASTING APPARATUS AND METHOD
201962794104 P	B65B 55/14	FOR THE PRODUCTION OF A CAST
201962794094 P	A61L 2/04	SHEET OF A MATERIAL CONTAINING
201962794083 P	A61L 2/08	ALKALOIDS
19156427	B65B 55/02	(73) Philip Morris Products S.A.
19156444	A23B 4/01	(72) CAPO, Silvia
19156394	A23B 7/005	FASCIANI, Chiara
19156440	A23B 7/01	BATISTA, Rui Nuno
(32) 18.01.2019	A61L 2/12	(31) 18181033
18.01.2019	(11) EP3494798	(32) 29.06.2018
18.01.2019	(21) EP17837219.9	(33) European Patent Office (EPO)
18.01.2019	(47) 11.01.2023	(51) A24B 3/18
11.02.2019	(87) KR2017008289	A24B 13/00
11.02.2019	08.02.2018	A24B 15/14
11.02.2019	(22) 01.08.2017	A23L 27/00
11.02.2019	(54) METHOD FOR STERILIZING	A61P 17/02
(33) United States of America	PROCESSED FOODS COMPRISING	A61P 25/34
United States of America	MICROWAVE HEATING	A61K 9/00
United States of America	PRETREATMENT	(11) EP2205227
United States of America	(73) Cj Cheiljedang Corporation	(21) EP08838537.2
European Patent Office (EPO)	(72) CHO, Won Il	(47) 11.01.2023
European Patent Office (EPO)	CHOI, Su Hee	(87) US2008011634
European Patent Office (EPO)	PARK, Hee Joon	16.04.2009
European Patent Office (EPO)	YOON, Sang Eun	(22) 10.10.2008
(51) A23L 2/58	LEE, Nam Ju	(54) EXTRUDABLE AND EXTRUDED
A23L 2/84	LEE, Jong Il	COMPOSITIONS FOR DELIVERY OF
A23L 29/231	(31) 20160099998	BIOACTIVE AGENTS, METHOD OF
A23L 29/256	(32) 05.08.2016	MAKING THE SAME AND METHOD OF
A23L 2/02	(33) Korea (Republic)	USING SAME
(11) EP3911176	(51) A23L 3/12	(73) Philip Morris Products S.A.
(21) EP19805302.7	(11) EP3410871	(72) FUISZ, Richard, C.
(47) 11.01.2023	(21) EP17704863.4	(31) 54195
(87) EP2019081840	(47) 11.01.2023	122201
23.07.2020	(87) US2017013854	990381 P
(22) 19.11.2019	10.08.2017	979169 P
(54) A COLORED BEVERAGE HAVING A	(22) 18.01.2017	PCT/US2008/011374
NEUTRAL PH	(54) RETORT FLUID SUCTION SYSTEM	(32) 19.05.2008
(73) GNT Group B.V.	(73) John Bean Technologies Corporation	16.05.2008
(72) MACDONALD, Jane Lee	(72) DAMHUIS, Eduard, Hendrikus, Johannes	27.11.2007
LEEB, Elena	(31) 201615014748	11.10.2007
(31) 201962794074 P	(32) 03.02.2016	02.10.2008
201962794104 P	(33) United States of America	(33) United States of America
201962794094 P	(51) A23N 4/04	United States of America
201962794083 P	A23N 4/22	United States of America
19156394	B26D 3/26	United States of America
19156444	(11) EP3361886	World Intellectual Property Office (WIPO)
19156427	(21) EP16826764.9	(51) A24B 15/167

A24F 40/10	(54) METHOD AND DEVICE FOR	(51) A24F 40/50
A61K 31/465	PRODUCING A FILTER FOR TOBACCO	H03F 1/30
(11) EP3873242	PRODUCTS	H03F 3/45
(21) EP19798362.0	(73) Hunger, Roberto	G05D 23/19
(47) 11.01.2023	(72) Hunger, Roberto	G05D 23/24
(87) GB2019053088	(31) 102019113489	A61M 15/06
07.05.2020	(32) 21.05.2019	(11) EP3744190
(22) 31.10.2019	(33) Germany	(21) EP20176500.5
(54) AEROSOLISABLE FORMULATION	(51) A24D 3/02	(47) 11.01.2023
(73) Nicoventures Trading Limited	A24D 3/06	(22) 26.05.2020
(72) CABOT, Ross	A24D 3/10	(54) CONTROL DEVICE FOR AEROSOL
(31) 201817864	D01F 2/00	INHALATION DEVICE
(32) 01.11.2018	D01D 1/02	(73) Japan Tobacco Inc.
(33) United Kingdom	(11) EP3051011	(72) Mizuguchi, Kazuma
(51) A24C 5/42	(21) EP14848075.9	Akao, Takeshi
A24B 7/04	(47) 11.01.2023	(31) 2019102238
(11) EP3685683	(87) KR2014009006	(32) 31.05.2019
(21) EP19213337.9	02.04.2015	(33) Japan
(47) 11.01.2023	(22) 26.09.2014	(51) A41B 9/02
(22) 03.12.2019	(54) LYOCCELL MATERIAL FOR CIGARETTE	A41D 1/08
(54) CONE LOADING DEVICE AND	FILTER AND METHOD FOR	A41D 7/00
METHOD THEREFOR	PREPARING SAME	A41D 27/28
(73) ABELLIO Limited	(73) Kolon Industries, Inc.	A41D 27/00
(72) KESSELMAN, Joshua	KT & G Corporation	(11) EP3409134
KOBE, Ian	(72) JEONG, Jong Cheol	(21) EP16887704.1
(31) 201816209392	JIN, Sang Woo	(47) 11.01.2023
(32) 04.12.2018	LEE, Sang Mok	(87) CN2016107494
(33) United States of America	KIM, Woo Chul	03.08.2017
(51) A24D 3/02	LEE, Sang Yoel	(22) 28.11.2016
(11) EP3592160	KIM, Jong Yeol	(54) PANTS
(21) EP18710430.2	KIM, Soo Ho	(73) Chou, Hung-Wang
(47) 11.01.2023	CHEONG, Bong Su	(72) Chou, Hung-Wang
(87) EP2018055691	CHO, Hyun Suk	(31) 201610059016
13.09.2018	KI, Sung Jong	(32) 28.01.2016
(22) 08.03.2018	(31) 20140128163	(33) China
(54) FEEDING DEVICE AND METHOD FOR	20130163793	(51) A41D 13/11
FEEDING SPHERICAL OBJECTS IN A	20130114536	(11) EP3906796
TOBACCO INDUSTRY MACHINE	(32) 25.09.2014	(21) EP21171880.4
(73) International Tobacco Machinery Poland	26.12.2013	(47) 11.01.2023
Sp. z o.o.	26.09.2013	(22) 03.05.2021
(72) CIESLAKOWSKI, Przemyslaw	(33) Korea (Republic)	(54) FILTERING VISOR
CIESLIKOWSKI, Bartosz	Korea (Republic)	(73) Vuzair
FIGARSKI, Radoslaw	Korea (Republic)	(72) SÉJOURNÉ, NATHALIE
(31) 42079817	(51) A24F 40/05	(31) 2004371
(32) 10.03.2017	A24F 40/485	(32) 03.05.2020
(33) Poland	(11) EP3677134	(33) France
(51) A24D 3/02	(21) EP18874571.5	(51) A43B 3/00
(11) EP3659448	(47) 11.01.2023	A43B 7/14
(21) EP19206915.1	(87) CN2018112574	A43B 13/04
(47) 11.01.2023	09.05.2019	A43B 13/12
(22) 04.11.2019	(22) 30.10.2018	A43B 13/18
(54) MACHINE FOR MAKING FILTERS FOR	(54) ULTRASONIC LIQUID ELECTRONIC	B33Y 80/00
SMOKING ARTICLES	CIGARETTE ATOMIZER, AND	A43B 7/24
(73) G.D S.p.A.	ULTRASONIC LIQUID ELECTRONIC	E01C 13/02
(72) BALDANZA, Nicola	CIGARETTE	A47C 23/00
EUSEPI, Ivan	(73) China Tobacco Hunan Industrial Co., Ltd.	(11) EP3841905
SARTONI, Massimo	(72) LIU, Jianfu	(21) EP20181493.6
FEDERICI, Luca	ZHONG, Kejun	(47) 11.01.2023
(31) 201800010059	GUO, Xiaoyi	(22) 22.06.2020
(32) 06.11.2018	HUANG, Wei	(54) SHOE SOLE AND SHOE
(33) Italy	YU, Hong	(73) ASICS Corporation
(51) A24D 3/02	DAI, Yuangang	(72) SAKAMOTO, Masanori
(11) EP3927194	YIN, Xinqiang	IWASA, Yutaro
(21) EP20711494.3	YI, Jianhua	TANIGUCHI, Norihiko
(47) 11.01.2023	ZHOU, Yongquan	SHIMOMURA, Koji
(87) DE2020100137	(31) 201721420209 U	(31) 2020095629
26.11.2020	(32) 30.10.2017	2020095628
(22) 27.02.2020	(33) China	2019237765

2019237764	(11) EP3410880	(22) 17.10.2019
(32) 01.06.2020	(21) EP16889652.0	(54) HAIRSTYLING APPLIANCE HAVING A LIQUID EVACUATION DEVICE
01.06.2020	(47) 11.01.2023	(73) SEB S.A.
27.12.2019	(87) US2016064599	(72) FERREYRE, Régis
27.12.2019	10.08.2017	(31) 1859754
(33) Japan	(22) 02.12.2016	(32) 22.10.2018
Japan	(54) HARSH ENVIRONMENT BUCKLE ASSEMBLIES	(33) France
Japan	(73) Shield Restraint Systems, Inc.	(51) A45D 1/04
Japan	(72) MERRICK, David, D.	A45D 1/10
(51) A43B 3/10	(31) 201615013883	(11) EP3515234
A43B 3/26	(32) 02.02.2016	(21) EP17780823.5
A43B 7/14	(33) United States of America	(47) 11.01.2023
(11) EP3821742	(51) A44B 18/00	(87) FR2017052489
(21) EP20207737.6	B29C 43/22	29.03.2018
(47) 11.01.2023	B29C 43/46	(22) 18.09.2017
(22) 16.11.2020	B29C 43/28	(54) HAIRSTYLING APPLIANCE COMPRISING A GUIDING ELEMENT
(54) ORTHOPAEDIC FOOTWEAR	(11) EP3668339	(73) SEB S.A.
(73) FXF GmbH	(21) EP18755447.2	(72) JAVELLE, Valentin
(72) FISCHER, Franz	(47) 11.01.2023	FERREYRE, Régis
(31) 202019106392 U	(87) EP2018071959	(31) 1658859
(32) 15.11.2019	21.02.2019	(32) 21.09.2016
(33) Germany	(22) 14.08.2018	(33) France
(51) A43B 7/24	(54) FASTENER ELEMENT SHAPE	(51) A45D 20/04
(11) EP3841907	(73) Velcro IP Holdings LLC	(11) EP3902439
(21) EP20181503.2	(72) GALLANT, Christopher M.	(21) EP19828789.8
(47) 11.01.2023	PARELLADA ARMELA, Luis	(47) 11.01.2023
(22) 22.06.2020	ARATA, Stephen R.	(87) EP2019087051
(54) SHOE SOLE AND SHOE	(31) 201715680447	02.07.2020
(73) ASICS Corporation	(32) 18.08.2017	(22) 26.12.2019
(72) IWASA, Yutaro	(33) United States of America	(54) HAIRSTYLING APPLIANCE WITH MOVABLE HEAD AND WITH CONTROLLED OPERATION IN THE POSITION OF SAID HEAD
SAKAMOTO, Masanori	(51) A44C 5/20	(73) SEB S.A.
TANIGUCHI, Norihiko	A44C 5/00	(72) DELHOM, Jérémy
SHIMOMURA, Koji	A44C 27/00	PONCET, Stéphane
(31) 2020095629	A44C 5/02	FERREYRE, Régis
2020095628	B44C 3/08	(31) 1874308
2019237765	(11) EP2982260	(32) 28.12.2018
2019237764	(21) EP15180060.4	(33) France
(32) 01.06.2020	(47) 11.01.2023	(51) A45D 20/12
01.06.2020	(22) 06.08.2015	(11) EP3925482
27.12.2019	(54) WEARABLE DEVICE FOR THE WRIST	(21) EP21180150.1
27.12.2019	(73) Apple Inc.	(47) 11.01.2023
(33) Japan	(72) Dey, Stephen E.	(22) 17.06.2021
Japan	Wan, Xingyu	(54) HAIRDRYER WITH SHOCK ABSORBER SUPPORT
Japan	Sawyer, Justin T.	(73) SEB S.A.
Japan	Van Dyke, Matthew N.	(72) DELHOM, Jérémy
(51) A43C 11/16	Chen, Hsiang Hung	REYES, Lionel
A42B 3/14	(31) 201514641227	(31) 2006462
F16G 11/12	201462035425 P	(32) 19.06.2020
(11) EP3653073	(32) 06.03.2015	(33) France
(21) EP19000410.1	09.08.2014	(51) A47B 81/00
(47) 11.01.2023	(33) United States of America	A47B 49/00
(22) 10.07.2014	United States of America	(11) EP3691495
(54) CLOSURE DEVICES INCLUDING INCREMENTAL RELEASE MECHANISMS	(51) A44C 15/00	(21) EP18803482.1
(73) Boa Technology Inc.	(11) EP3791748	(47) 11.01.2023
(72) Converse, Christopher	(21) EP19382784.7	(87) IT2018050184
Irwin, Eric	(47) 11.01.2023	11.04.2019
Kruse, Randon	(22) 10.09.2019	(22) 04.10.2018
Soderberg, Mark	(54) FOREHEAD BINDI-HOLDING DEVICE	(54) CABINET WITH PULL-OUT SHELVES AND RELATED PULL-OUT MECHANISM WITH IMPROVED GUIDE
Venturini, Aaron	(73) Taurum Technologies SL	(73) INOXA SRL
(31) 201361869377 P	(72) SÁENZ LÖBSACK, Daniel	(72) Trombettoni, Roberto
201361844788 P	(51) A45D 1/00	
(32) 23.08.2013	A45D 1/04	
10.07.2013	(11) EP3869993	
(33) United States of America	(21) EP19786357.4	
United States of America	(47) 11.01.2023	
(51) A44B 11/25	(87) EP2019078175	
	30.04.2020	

Silvi, Emanuele	19.01.2017	STANDAAR, Koen
(31) 201700112723 U	(22) 13.07.2016	DEES, Hendrik Johan
(32) 06.10.2017	(54) IMPROVEMENTS IN BEDDING	(31) 2018886
(33) Italy	(73) Zavargé Pty Ltd	2018884
(51) A47B 88/437	(72) SAVAGE, Janine	(32) 10.05.2017
A47B 88/493	SAVAGE, Shane	10.05.2017
(11) EP4027836	(31) 2015101192	(33) Netherlands
(21) EP20764996.3	2015903233	Netherlands
(47) 11.01.2023	2015902784	
(87) EP2020074322	(32) 28.08.2015	(51) A47K 13/26
18.03.2021	12.08.2015	(11) EP3995060
(22) 01.09.2020	14.07.2015	(21) EP20206159.4
(54) PULL-OUT GUIDE	(33) Australia	(47) 11.01.2023
(73) Paul Hettich GmbH & Co. KG	Australia	(22) 06.11.2020
(72) PETKER, Waldemar	Australia	(54) DEVICE FOR MOUNTING A TOILET
(31) 102019124732	(51) A47G 25/14	SEAT ASSEMBLY TO AND FROM A
(32) 13.09.2019	A47G 25/32	TOILET BOWL
(33) Germany	A47G 25/38	(73) Zhejiang Hengyuan Sanitary Ware Co.,
(51) A47B 88/487	(11) EP3332675	Ltd.
B60R 7/04	(21) EP17206858.7	(72) Xiaofeng, Xu
A47B 88/453	(47) 11.01.2023	(51) A47L 5/00
B60N 2/75	(22) 12.12.2017	A47L 9/00
A47B 88/473	(54) PLASTIC GARMENT HANGER WITH	A47L 9/28
A47B 88/457	COLLAPSIBLE PLASTIC HOOK	(11) EP3469972
B60N 2/07	(73) Sourcing Solutions International Limited	(21) EP18194695.5
B60N 2/02	(72) Ho, Leung	(47) 11.01.2023
(11) EP3624641	(31) 201615375529	(22) 17.09.2018
(21) EP18726133.4	(32) 12.12.2016	(54) METHOD AND DEVICE FOR
(47) 11.01.2023	(33) United States of America	CHARGING AN ENERGY STORAGE
(87) EP2018063103	(51) A47J 27/00	DEVICE FOR USE IN A CLEANING
22.11.2018	A47J 27/09	IMPLEMENT AND CLEANING
(22) 18.05.2018	(11) EP3930542	IMPLEMENT WITH A DEVICE
(54) GUIDE DEVICE	(21) EP20707836.1	(73) Miele & Cie. KG
(73) Schock Metallwerk GmbH	(47) 11.01.2023	(72) Agethen, Michael
(72) ZIMMERMANN, Joachim	(87) IB2020051261	Buchholz, Thomas
(31) 102017208450	03.09.2020	(31) 102017123665
(32) 18.05.2017	(22) 14.02.2020	(32) 11.10.2017
(33) Germany	(54) APPARATUS FOR AUTOMATIC AND	(33) Germany
(51) A47C 1/0355	FAST COOKING OF FOOD	(51) A47L 7/00
(11) EP3537931	(73) Spotorno, Giannantonio	A47L 9/16
(21) EP17894301.5	(72) SPOTORNO, Cesare	A47L 9/00
(47) 11.01.2023	SPOTORNO, Giannantonio	(11) EP3582669
(87) US2017060264	(31) 201900002861	(21) EP17716549.5
02.08.2018	(32) 27.02.2019	(47) 11.01.2023
(22) 07.11.2017	(33) Italy	(87) EP2017058690
(54) RECLINING HIGH-LEG SEATING UNIT	(51) A47J 27/21	18.10.2018
(73) Ultra-Mek, Inc.	(11) EP3711640	(22) 11.04.2017
(72) MURPHY, Marcus L.	(21) EP20164490.3	(54) ADAPTER FRAME, ASSEMBLY, AND
(31) 201762450885 P	(47) 11.01.2023	SUCTION DEVICE
(32) 26.01.2017	(22) 20.03.2020	(73) Festool GmbH
(33) United States of America	(54) ELECTRIC KETTLE	(72) GREBING, Gerhard
(51) A47D 13/02	(73) LG Electronics Inc.	(51) A47L 9/02
(11) EP3912516	(72) AHN, Jaehoon	(11) EP3756521
(21) EP21167801.6	KANG, Daeyong	(21) EP20185467.6
(47) 11.01.2023	(31) 20190032607	(47) 11.01.2023
(22) 12.04.2021	(32) 21.03.2019	(22) 08.05.2017
(54) BABY CARRIER	(33) Korea (Republic)	(54) CLEANER HOLDER
(73) Artsana S.p.A.	(51) A47J 31/60	(73) LG Electronics Inc.
(72) MACRI, Eleonora	(11) EP3634186	(72) KIM, Namhee
(31) 202000011590	(21) EP18725010.5	NAM, Bohyun
(32) 19.05.2020	(47) 11.01.2023	HWANG, Jungbae
(33) Italy	(87) NL2018050307	KIM, Jinju
(51) A47G 9/02	15.11.2018	BAE, Sehwan
(11) EP3322320	(22) 09.05.2018	(31) 20160108641
(21) EP16823543.0	(54) BEVERAGE BREWING APPARATUS	20160056462
(47) 11.01.2023	WITH NOZZLE EXTERIOR CLEANING	(32) 25.08.2016
(87) AU2016000249	(73) Koninklijke Douwe Egberts B.V.	09.05.2016
	(72) DESSING, Jacobus Petrus Maria	(33) Korea (Republic)

Korea (Republic)	(72) Bertram, Andre	(31) 201662434874 P
(51) A47L 9/16	Kornfeld, André	(32) 15.12.2016
(11) EP3698699	Chluba, Nils	(33) United States of America
(21) EP20158097.4	Wolf, Cornelius	(51) A61B 3/10
(47) 11.01.2023	Dahms, Tobias	G02B 21/00
(22) 18.02.2020	Stanke, Benjamin	A61B 3/14
(54) VACUUM CLEANER EQUIPPED WITH A CLAMPING DEVICE FOR A WASTE STORAGE CONTAINER	Nierling, Andreas	A61B 3/12
(73) SEB S.A.	Dettmer, Martin	(11) EP3138476
(72) CORITON, Nicolas	Schröder, Nils	(21) EP16179646.1
MASSON, Antoine	Steinmeier, Ralph	(47) 11.01.2023
MARTI, Antoine	(31) 102020104060	(22) 15.07.2016
(31) 1901740	102019108965	(54) FUNDUS IMAGING APPARATUS
(32) 21.02.2019	(32) 17.02.2020	(73) TOPCON CORPORATION
(33) France	05.04.2019	(72) MIWA, Akemi
(51) A47L 9/30	(33) Germany	YAMAGUCHI, Tatsuo
(11) EP3785593	Germany	SAIKA, Makoto
(21) EP19194960.1	(51) A61B 1/015	(31) 2015165991
(47) 11.01.2023	A61B 1/00	(32) 25.08.2015
(22) 02.09.2019	A61B 1/267	(33) Japan
(54) VACUUM CLEANER JET	A61M 1/00	(51) A61B 3/10
(73) Wessel-Werk GmbH	(11) EP3756530	G02B 21/02
(72) ZYDEK, Martin	(21) EP20191676.4	G02B 21/00
(51) A47L 13/16	(47) 11.01.2023	G02B 13/06
A47L 13/17	(22) 27.09.2017	(11) EP3760101
(11) EP4021269	(54) ENDOSCOPE ADAPTED FOR FACILITATING BAL PROCEDURES	(21) EP19775706.5
(21) EP21749083.8	(73) Ambu A/S	(47) 11.01.2023
(47) 11.01.2023	(72) LUND, Jesper Grøndahl	(87) JP2019012941
(87) DE2021100594	JACOBSEN, Morten	03.10.2019
13.01.2022	MATTHISON-HANSEN, Kaspar Mat	(22) 26.03.2019
(22) 07.07.2021	JOHNSEN, Lasse Markworth	(54) OPHTHALMIC OPTICAL SYSTEM, OBJECT LENS FOR OPHTHALMOLOGY, AND OPHTHALMIC DEVICE
(54) CLEANING PAD FOR THE TREATMENT OF SURFACES	NIELSEN, Brian	(73) NIKON CORPORATION
(73) Pohlmann, Ulrich	SONNENBORG, Finn	Optos PLC
(72) Pohlmann, Ulrich	(31) PA201670768	(72) MUYO, Gonzalo
(31) 102020117922	(32) 28.09.2016	GORMAN, Alistair
(32) 07.07.2020	(33) Denmark	WILLIAMSON, David, M.
(33) Germany	(51) A61B 3/032	FUJIMOTO, Makoto
(51) A47L 15/42	A61H 5/00	NISHI, Yasufumi
A47L 15/00	A61B 3/113	NONAKA, Azuna
A47L 15/24	A61B 5/00	WATANABE, Katsuya
(11) EP3174447	(11) EP2782493	YOSHIDA, Miwako
(21) EP15753239.1	(21) EP12818491.8	TOKUNAGA, Kyoya
(47) 11.01.2023	(47) 11.01.2023	MIZUTA, Masahiro
(87) US2015042177	(87) EP2012073399	(31) 201862650309 P
04.02.2016	30.05.2013	(32) 30.03.2018
(22) 27.07.2015	(22) 22.11.2012	(33) United States of America
(54) ADJUSTABLE RINSING DEVICE AND DISHWASHING MACHINE HAVING SUCH A DEVICE	(54) METHOD AND DEVICE IMPROVING VISUAL PERFORMANCE	(51) A61B 3/11
(73) Illinois Tool Works Inc.	(73) Caterna Vision GmbH	G02C 13/00
(72) CHERICONI, Alessio	(72) LANGE, Robert	A61B 3/113
ORLANDI, Riccardo	KÄMPF, Uwe	(11) EP2760329
FABBRI, Riccardo	SEEWALD, Sascha	(21) EP12784465.2
(31) TO20140612	(31) 102011119361	(47) 11.01.2023
(32) 31.07.2014	(32) 23.11.2011	(87) EP2012069044
(33) Italy	(33) Germany	04.04.2013
(51) A47L 15/42	(51) A61B 3/10	(22) 27.09.2012
A47L 15/48	A61B 3/13	(54) METHOD FOR DETERMINING OCULAR AND OPTICAL MEASUREMENTS
(11) EP3718460	(11) EP3554337	(73) Fittingbox
(21) EP20167675.6	(21) EP17818299.4	(72) LE GALLOU, Sylvain
(47) 11.01.2023	(47) 11.01.2023	CHOUKROUN, Ariel
(22) 02.04.2020	(87) IB2017057798	(31) 1160547
(54) DISHWASHER, IN PARTICULAR A DOMESTIC DISHWASHING MACHINE	21.06.2018	1102952
(73) Miele & Cie. KG	(22) 11.12.2017	(32) 18.11.2011
	(54) ADAPTIVE IMAGE REGISTRATION FOR OPHTHALMIC SURGERY	29.09.2011
	(73) Alcon Inc.	(33) France
	(72) REN, Hugang	
	YU, Lingfeng	

France	(11) EP3223702	(32) 24.09.2004
(51) A61B 3/13	(21) EP15816373.3	(33) European Patent Office (EPO)
A61B 3/14	(47) 11.01.2023	(51) A61B 6/00
(11) EP3624670	(87) EP2015077527	(11) EP3359042
(21) EP18730862.2	02.06.2016	(21) EP16778021.2
(47) 11.01.2023	(22) 24.11.2015	(47) 11.01.2023
(87) IB2018053494	(54) MINIATURIZED DEVICE FOR DETERMINING A BREATHING PATTERN	(87) EP2016073925
22.11.2018		13.04.2017
(22) 17.05.2018	(73) Université catholique de Louvain	(22) 06.10.2016
(54) CONTROL OF DISTANCE BETWEEN MICROSCOPE LENS AND CORNEA	(72) ANDRÉ, Nicolas	(54) METHOD AND DEVICE FOR CONTROLLING MOVEMENT OF A MOTORIZED C-ARM
(73) ALCON INC.	FLANDRE, Denis	(73) Ecential Robotics
(72) CHARLES, Steven T.	FRANCIS, Laurent	(72) VAN BEEK, Laurence
(31) 201762508617 P	GÉRARD, Pierre	ARMAND, David
(32) 19.05.2017	GOSSET, Geoffroy	PIERRE, Arnaud
(33) United States of America	WALEWYNS, Thomas	LAVALLEE, Stéphane
(51) A61B 5/00	(31) 14194610	FLEUTE, Markus
A61B 5/20	(32) 24.11.2014	(31) 15188553
A61B 5/145	(33) European Patent Office (EPO)	(32) 06.10.2015
A61B 5/1455	(51) A61B 5/097	(33) European Patent Office (EPO)
A61B 5/1459	A61B 5/024	(51) A61B 6/00
(11) EP3834711	A61B 5/083	(11) EP3714791
(21) EP20217728.3	A61B 5/087	(21) EP18895945.6
(47) 11.01.2023	(11) EP2913003	(47) 11.01.2023
(22) 08.06.2017	(21) EP14157369.1	(87) JP2018041320
(54) OXYGEN MEASUREMENT DEVICE	(47) 11.01.2023	04.07.2019
(73) TERUMO Kabushiki Kaisha	(22) 28.02.2014	(22) 07.11.2018
(72) SUEHARA, Satoru	(54) Device for taking a sample of human respiration comprising a flared and/or tubular housing element	(54) RADIOGRAPHY DEVICE, IMAGE PROCESSING DEVICE, AND IMAGE DETERMINATION METHOD
HAZAMA, Seyedriyah	(73) pro4senses GmbH	(73) CANON KABUSHIKI KAISHA
SAWADA, Satoshi	(72) Jerichow, Ulrich	(72) MATSUURA, Tomohiko
TAKAHASHI, Akihiro	(51) A61B 5/16	(31) 2017252067
(31) 2017067392	A61B 5/00	(32) 27.12.2017
2016116598	(11) EP3537974	(33) Japan
2016116593	(21) EP17797906.9	(51) A61B 6/00
2016116592	(47) 11.01.2023	A61B 5/107
2016116590	(87) EP2017078113	G01B 11/06
(32) 30.03.2017	17.05.2018	G01B 21/08
10.06.2016	(22) 03.11.2017	A61B 6/03
10.06.2016	(54) METHOD AND APPARATUS FOR DETERMINING AN INDICATION OF COGNITIVE IMPAIRMENT	(11) EP3073917
10.06.2016	(73) Koninklijke Philips N.V.	(21) EP14866125.9
(33) Japan	(72) VLASKAMP, Björn Nicolaas Servatius	(47) 11.01.2023
Japan	KLAMING, Laura	(87) US2014067765
Japan	GILLIES, Murray Fulton	04.06.2015
Japan	(31) 201662420181 P	(22) 26.11.2014
Japan	17189923	(54) AUTOMATED APPARATUS TO IMPROVE IMAGE QUALITY IN X-RAY AND ASSOCIATED METHOD OF USE
(51) A61B 5/0215	(32) 10.11.2016	(73) Washington University
A61B 8/12	07.09.2017	Children's Medical Center Corporation
A61M 25/01	(33) United States of America	(72) DON, Steven
A61M 25/098	European Patent Office (EPO)	MACDOUGALL, Robert
A61B 1/005	(51) A61B 5/339	CLAYTON, William
A61B 5/027	A61B 5/341	(31) 201361909438 P
(11) EP3057496	G16H 40/60	(32) 27.11.2013
(21) EP14854718.5	G16H 40/63	(33) United States of America
(47) 11.01.2023	A61B 5/318	(51) A61B 6/00
(87) US2014060264	(11) EP3821807	A61B 8/00
23.04.2015	(21) EP20206365.7	A61B 8/08
(22) 13.10.2014	(47) 11.01.2023	G01T 1/161
(54) INTRAVASCULAR DEVICE	(22) 09.09.2005	G01T 1/16
(73) Philips Image Guided Therapy Corporation	(54) METHOD OF MEDICAL MONITORING	(11) EP3154431
(72) MEYER, Doug	(73) Koninklijke Philips N.V.	(21) EP15741481.4
BURNETT, Joseph	(72) COSTA RIBALTA, Alejo	(47) 11.01.2023
(31) 201361890547 P	SCHLUES, Rainer	(87) DE2015100233
(32) 14.10.2013	WILM, Bernd	17.12.2015
(33) United States of America	(31) 04104645	
(51) A61B 5/08		
G01N 27/22		

(22) 11.06.2015	A61B 6/03	MULLER, SERGE LOUIS WILFRID
(54) METHOD FOR DETERMINING THE POINTS OF ORIGIN OF RADIATION SIGNALS IN A MEASUREMENT ZONE, AND MEASURING APPARATUS FOR SIMULTANEOUSLY DETECTING RADIATION EVENTS OF DECAYING RADIONUCLIDES IN THE MEASUREMENT ZONE	G01T 1/24 G01T 1/20 G01N 23/20066 G01R 33/48 G01T 1/161	VANCAMBERG, LAURENCE (31) 201514840675 (32) 31.08.2015 (33) United States of America
(73) Universitätsklinikum Jena	(11) EP3817661	(51) A61B 6/10
(72) FREESMEYER, Martin	(21) EP18759496.5	A61B 6/00
(31) 102014108178	(47) 11.01.2023	G06K 9/00
(32) 11.06.2014	(87) US2018045466	(11) EP3915482
(33) Germany	13.02.2020	(21) EP21179003.5
(51) A61B 6/00	(22) 07.08.2018	(47) 11.01.2023
A61B 8/00	(54) MULTI-MODAL COMPTON AND SINGLE PHOTON EMISSION COMPUTED TOMOGRAPHY MEDICAL IMAGING SYSTEM	(22) 10.10.2018
G06T 11/00	(73) Siemens Medical Solutions USA, Inc.	(54) SYSTEM FOR CONTROLLING AT LEAST ONE MOVEMENT OF A MOTORISED COMPONENT OF RADIOLOGICAL EQUIPMENT AND RADIOLOGICAL EQUIPMENT THAT USES IT
G06T 7/00	(72) VIJA, Alexander Hans	(73) General Medical Merate S.p.A.
(11) EP3461413	RODRIGUES, Miesher	(72) FUMAGALLI, Mauro
(21) EP18200422.6	(51) A61B 6/00	(31) 201700114495
(47) 11.01.2023	H01J 35/14	(32) 11.10.2017
(22) 29.07.2014	H01J 35/24	(33) Italy
(54) INFORMATION PROCESSING APPARATUS, INFORMATION PROCESSING METHOD AND COMPUTER PROGRAM	G01N 23/041	(51) A61B 8/00
(73) Canon Kabushiki Kaisha	G01N 23/20066	G01N 29/00
(72) ISHIZU, Koichi	G01N 23/201	G01N 29/44
UENO, Takayuki	G01N 23/207	A61B 8/08
ISHIDA, Takuya	H05G 1/00	G06T 5/00
ENDO, Takaaki	(11) EP3911236	G06T 7/00
SATO, Kiyohide	(21) EP20808448.3	G06T 11/60
(31) 2013188717	(47) 11.01.2023	G06T 15/08
(32) 11.09.2013	(87) EP2020083265	G06T 7/30
(33) Japan	10.06.2021	G16H 50/30
(51) A61B 6/00	(22) 25.11.2020	(11) EP2961324
G01N 23/06	(54) ESTIMATION OF FULL-FIELD SCATTERING FOR DAX IMAGING	(21) EP14757643.3
(11) EP3569148	(73) Koninklijke Philips N.V.	(47) 11.01.2023
(21) EP18172938.5	(72) PREVRHAL, Sven, Peter	(87) US2014018732
(47) 11.01.2023	KOEHLER, Thomas	04.09.2014
(22) 17.05.2018	ENGEL, Klaus, Juergen	(22) 26.02.2014
(54) METHOD OF RECORDING AN IMAGE DATA SET WITH A X-RAY DETECTOR	(31) 19213803	(54) SYSTEMS AND METHODS FOR ULTRASOUND IMAGING
(73) Siemens Healthcare GmbH	(32) 05.12.2019	(73) Rivanna Medical, Inc.
(72) Beister, Marcel	(33) European Patent Office (EPO)	(72) MAULDIN, Frank, William, Jr.
Ergler, Thorsten	(51) A61B 6/03	OWEN, Kevin
Hupfer, Martin	A61B 6/00	(31) 201361770437 P
Kappler, Steffen	(11) EP3449835	(32) 28.02.2013
Köster, Niko	(21) EP18189199.5	(33) United States of America
(51) A61B 6/00	(47) 11.01.2023	(51) A61B 8/00
G01N 23/087	(22) 15.08.2018	G01N 29/06
A61K 49/04	(54) COMPUTED TOMOGRAPHY SYSTEM AND METHOD FOR IMAGING MULTIPLE ANATOMICAL TARGETS	G01S 7/52
A61M 5/00	(73) Hologic, Inc.	G01F 23/296
(11) EP3795080	(72) WILLIAMS, Cornell Lee	G01S 15/89
(21) EP19198383.2	(31) 201762548804 P	A61B 8/08
(47) 11.01.2023	(32) 22.08.2017	(11) EP3764908
(22) 19.09.2019	(33) United States of America	(21) EP19709752.0
(54) CONTRAST MEDIA BASED TIME CODING IN X-RAY IMAGING	(51) A61B 6/03	(47) 11.01.2023
(73) Siemens Healthcare GmbH	G06T 11/00	(87) EP2019056549
(72) Flohr, Thomas	A61B 6/00	19.09.2019
Schmidt, Bernhard	(11) EP3143936	(22) 15.03.2019
(51) A61B 6/00	(21) EP16186402.0	(54) METHOD AND APPARATUS FOR DETERMINING LOCAL ACOUSTIC FIELD INTENSITY WITHIN A SOFT SOLID
G01T 1/00	(47) 11.01.2023	(73) INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE - INSERM
G01T 1/164	(22) 30.08.2016	Centre Léon Bérard
G01T 1/29	(54) ITERATIVE X-RAY IMAGING OPTIMIZATION METHOD	Université Claude Bernard Lyon 1
A61B 6/06	(73) General Electric Company	
G21K 1/02	(72) PALMA, GIOVANNI JOHN JACQUES IORDACHE, RAZVAN, GABRIEL	

(72) MATSUI, Kazuhiro N'DJIN, William Apoutou SOUCHON, R�mi	(72) ELEVELT, Aaldert Jan BOX, Wilhelmus Josephus CAMPS, Saskia Maria GERAATS, Jacobus Sigbertus Marie VAN NOORT, Antonius Leonardus Johannes RIJKEN, Antonius Maria KUSTRA, Jacek Lukasz	(11) EP3266387 (21) EP17186328.5 (47) 11.01.2023 (22) 07.11.2014 (54) HYBRID ADJUNCT MATERIALS FOR USE IN SURGICAL STAPLING (73) Ethicon LLC (72) SHELTON, IV Frederick E. WIDENHOUSE, Tamara S.V. (31) 201314074810 (32) 08.11.2013 (33) United States of America
(31) 18305291 (32) 16.03.2018 (33) European Patent Office (EPO)	(31) 18174487 (32) 28.05.2018 (33) European Patent Office (EPO)	(51) A61B 8/06 A61B 8/08 A61B 8/00 A61B 5/00 G01S 7/52 A61B 5/02
(51) A61B 8/06 A61B 8/08 A61B 8/00 A61B 5/00 G01S 7/52 A61B 5/02	(51) A61B 8/14 A61B 8/00	(51) A61B 17/08 (11) EP2579788 (21) EP11793097.4 (47) 11.01.2023 (87) US2011039645 15.12.2011 (22) 08.06.2011 (54) SELF-LOCKING CLOSURE DEVICE FOR PERCUTANEOUSLY SEALING PUNCTURES (73) Teleflex Life Sciences Limited (72) WALTERS, Greg Alan (31) 352807 P 201113025593 201113111653 (32) 08.06.2010 11.02.2011 19.05.2011 (33) United States of America United States of America United States of America
(11) EP3883478 (21) EP19804722.7 (47) 11.01.2023 (87) EP2019081507 28.05.2020 (22) 15.11.2019 (54) ULTRASOUND CONTROL UNIT (73) Koninklijke Philips N.V.	(22) 07.09.2017 (54) ULTRASOUND DIAGNOSTIC SYSTEM AND METHOD OF CONTROLLING ULTRASOUND DIAGNOSTIC SYSTEM (73) FUJIFILM Corporation (72) TASHIRO Rika (31) 2016177885 (32) 12.09.2016 (33) Japan	(87) EP2019081507 28.05.2020 (22) 15.11.2019 (54) ULTRASOUND CONTROL UNIT (73) Koninklijke Philips N.V.
(72) SUTTON, Jonathan, Thomas BINGLEY, Peter BHARAT, Shyam GROTH, Alexandra WEBER, Frank, Michael GREINER, Harald RAJU, Balasundar, Iyyavu	(51) A61B 17/00 A61B 17/04 A61F 2/00 A61F 2/24 A61F 2/82 A61F 2/95	(72) SUTTON, Jonathan, Thomas BINGLEY, Peter BHARAT, Shyam GROTH, Alexandra WEBER, Frank, Michael GREINER, Harald RAJU, Balasundar, Iyyavu
(31) 201862769755 P 18211527 (32) 20.11.2018 11.12.2018 (33) United States of America European Patent Office (EPO)	(51) A61B 17/072 (11) EP3468480 (21) EP17813855.8 (47) 11.01.2023 (87) US2017036949 21.12.2017 (22) 12.06.2017 (54) SEQUENTIAL DELIVERY OF TWO- PART PROSTHETIC MITRAL VALVE (73) Tendyne Holdings, Inc. (72) TEGELS, Zachary J. (31) 201662349418 P (32) 13.06.2016 (33) United States of America	(31) 201862769755 P 18211527 (32) 20.11.2018 11.12.2018 (33) United States of America European Patent Office (EPO)
(51) A61B 8/08 A61B 5/103 G01N 29/44 G01N 33/483 G01S 15/89 (11) EP3003159 (21) EP14801776.7 (47) 11.01.2023 (87) CA2014050480 27.11.2014 (22) 23.05.2014 (54) METHOD FOR CLASSIFYING AND CHARACTERIZING TISSUES USING FIRST-ORDER AND SECOND-ORDER STATISTICS OF QUANTITATIVE ULTRASOUND PARAMETRIC MAPS (73) Sunnybrook Research Institute	(51) A61B 17/072 (11) EP3597120 (21) EP19186244.0 (47) 11.01.2023 (22) 15.07.2019 (54) BUTTRESS APPLIER CARTRIDGE FOR SURGICAL STAPLER HAVING END EFFECTOR WITH DEFLECTABLE CURVED TIP (73) Ethicon LLC (72) HARRIS, Jason L. BAKOS, Gregory J. HESS, Christopher J. (31) 201816035834 (32) 16.07.2018 (33) United States of America	(51) A61B 17/08 A61B 17/00 A61B 17/12 A61M 29/00 (11) EP3322353 (21) EP16824874.8 (47) 11.01.2023 (87) US2016039367 19.01.2017 (22) 24.06.2016 (54) DEVICE FOR LEFT ATRIAL APPENDAGE CLOSURE (73) Marvel Medical Technologies LLC (72) MA, Jianlu (31) 201562219609 P 201562191529 P (32) 16.09.2015 13.07.2015 (33) United States of America United States of America
(73) Sunnybrook Research Institute	(54) BUTTRESS APPLIER CARTRIDGE FOR SURGICAL STAPLER HAVING END EFFECTOR WITH DEFLECTABLE CURVED TIP (73) Ethicon LLC (72) HARRIS, Jason L. BAKOS, Gregory J. HESS, Christopher J. (31) 201816035834 (32) 16.07.2018 (33) United States of America	(73) Sunnybrook Research Institute
(72) SADEGHI-NAINI, Ali TADAYYON, Hadi CZARNOTA, Gregory J. FALOU, Omar	(51) A61B 17/072 A61F 2/00 A61B 17/115 A61L 15/24 A61L 15/58 A61B 17/00	(72) SADEGHI-NAINI, Ali TADAYYON, Hadi CZARNOTA, Gregory J. FALOU, Omar
(31) 201361827369 P (32) 24.05.2013 (33) United States of America	(51) A61B 17/072 A61F 2/00 A61B 17/115 A61L 15/24 A61L 15/58 A61B 17/00	(31) 201361827369 P (32) 24.05.2013 (33) United States of America
(51) A61B 8/08 A61B 8/00 (11) EP3801278 (21) EP19726034.2 (47) 11.01.2023 (87) EP2019063892 05.12.2019 (22) 28.05.2019 (54) ULTRASOUND PROBE POSITIONING SYSTEM (73) Koninklijke Philips N.V.	(51) A61B 17/072 A61F 2/00 A61B 17/115 A61L 15/24 A61L 15/58 A61B 17/00	(51) A61B 17/17 A61B 17/70 A61F 2/46 A61F 2/44 A61F 2/30 A61B 17/90 A61B 17/92 A61B 17/00 (11) EP3711687 (21) EP19163831.1 (47) 11.01.2023 (22) 19.03.2019 (54) SET FOR ENDOSCOPIC FIXING OF AN IMPLANT IN AN INTERVERTEBRAL DISC WITH A NAIL OR PIN

(73) BioTissue SA	(11) EP3513746	(32) 13.07.2018
(72) Endres, Michaela Krüger, Jan Philipp Schröder, Sebastian	(21) EP19158752.6 (47) 11.01.2023 (22) 26.10.2012	(33) United States of America
(51) A61B 17/29	(54) SURGICAL INSTRUMENT WITH INTEGRAL KNIFE BLADE	(51) A61B 17/34 A61B 8/08 A61B 10/02 A61B 90/00
(11) EP2621376	(73) Intuitive Surgical Operations Inc.	(11) EP3618739
(21) EP11770249.8	(72) BURBANK, William	(21) EP18727464.2
(47) 11.01.2023	(31) 201161551876 P	(47) 11.01.2023
(87) US2011053544	(32) 26.10.2011	(87) SE2018050498
05.04.2012	(33) United States of America	29.11.2018
(22) 27.09.2011	(51) A61B 17/32	(22) 15.05.2018
(54) SURGICAL STAPLING INSTRUMENT WITH COMPACT ARTICULATION CONTROL ARRANGEMENT	G05B 19/23 H02P 6/00	(54) MEDICAL NEEDLE COMPRISING ECHOGENIC ENHANCEMENTS
(73) Ethicon Endo-Surgery, Inc.	H02P 6/06	(73) In Front Medtech AB
(72) MORGAN, Jerome, R. SHELTON, IV, Frederick E.	(11) EP2142113	(72) LINDGREN, Mikael LINDGREN, Fredrik
(31) 894339	(21) EP08745969.9	(31) 1750637
(32) 30.09.2010	(47) 11.01.2023	(32) 23.05.2017
(33) United States of America	(87) US2008060469	(33) Sweden
(51) A61B 17/29	30.10.2008	(51) A61B 17/34
A61B 17/30	(22) 16.04.2008	A61M 5/178
(11) EP3944827	(54) POWERED SURGICAL SYSTEM	A61B 1/05
(21) EP20188396.4	(73) Smith & Nephew, Inc.	(11) EP3547941
(47) 11.01.2023	(72) KRAUSE, Kenneth, W.	(21) EP17877192.9
(22) 29.07.2020	WOODLAND, Kenneth, R.	(47) 11.01.2023
(54) SURGICAL INSTRUMENT HAVING A PUSH-PUSH LOCKING MECHANISM	GARCIA, Michael, S. BRODSKY, Michael, A.	(87) IL2017051226
(73) Tschida - Kelch, Ivonne	HEDGE, Uday	07.06.2018
(72) Tschida, Peter	MEIER, Melanie RAMANATHAN, Elangovan	(22) 12.11.2017
(51) A61B 17/29	(31) 912067 P	(54) A MEDICAL DEVICE HAVING A GAS PATH APPARATUS
A61B 17/32	(32) 16.04.2007	(73) 270 Surgical Ltd.
(11) EP3763310	(33) United States of America	(72) LEVY, Avraham
(21) EP20184751.4	(51) A61B 17/3207	(31) 201662427825 P
(47) 11.01.2023	A61B 18/14	(32) 30.11.2016
(22) 08.07.2020	A61B 17/32	(33) United States of America
(54) JAW DRIVE ARM FOR SURGICAL INSTRUMENTS AND SURGICAL INSTRUMENTS INCORPORATING THE SAME	A61B 18/00	(51) A61B 17/70
(73) Covidien LP	(11) EP3258864	(11) EP2662037
(72) NETZEL, Kenneth, E. CRAIG, Jason L.	(21) EP16708043.1	(21) EP13166637.2
(31) 201916505831	(47) 11.01.2023	(47) 11.01.2023
(32) 09.07.2019	(87) US2016018486	(22) 06.05.2013
(33) United States of America	25.08.2016	(54) Iliac connector, connector head and spinal fixation system
(51) A61B 17/29	(22) 18.02.2016	(73) CoLigne AG
A61B 18/14	(54) RF ENERGY ENABLED TISSUE DEBRIDEMENT DEVICE	(72) Lange, Robert Fayada, Paul Funnemark, Jakob Brighenti, Vittoria
(11) EP3841991	(73) Medtronic Xomed, Inc.	(31) 201261644689 P
(21) EP20213158.7	(72) PRISCO, John R.	(32) 09.05.2012
(47) 11.01.2023	DETMERS, Eric P.	(33) United States of America
(22) 10.12.2020	LI, Wenjeng	(51) A61B 17/70
(54) LAPAROSCOPIC INSTRUMENT	LITTLE, David J.	(11) EP3352692
(73) "Konmex" Spółka Z Ograniczona Odpowiedzialnoscia	RICHART, Patrick	(21) EP16849749.3
(72) Brodaczewski, Wieslaw Decewicz, Andrzej Przekopinski, Tomasz Wawryniuk, Grzegorz	VALDEZ, Jose	(47) 11.01.2023
(31) 43243119	(31) 201562117523 P	(87) US2016053441
(32) 27.12.2019	(32) 18.02.2015	30.03.2017
(33) Poland	(33) United States of America	(22) 23.09.2016
(51) A61B 17/32	(51) A61B 17/34	(54) SPINAL IMPLANT SYSTEM AND METHOD
A61B 17/29	(11) EP3593744	(73) Warsaw Orthopedic, Inc.
A61B 17/94	(21) EP19186144.2	(72) SIMPSON, Joshua W. LINDEMANN, Gary S. MAY, Jason M. PADILLA, Maria-Rosa
A61B 17/072	(47) 11.01.2023	(31) 201514864482
A61B 90/00	(22) 12.07.2019	(32) 24.09.2015
	(54) SEAL CARTRIDGE LATCH DESIGN FOR TROCAR ASSEMBLIES	
	(73) Ethicon LLC	
	(72) HALL, Steven G. MOZLOOM, JR., Joseph Thomas SCHMID, Katherine J. ADAMS, Harry Randolph	
	(31) 201816034942	

(33) United States of America	29.08.2011	(32) 29.01.2013
(51) A61B 17/70	26.08.2011	(33) United States of America
(11) EP3419536	26.08.2011	(51) A61B 34/20
(21) EP17708659.2	26.08.2011	(11) EP3024409
(47) 11.01.2023	26.08.2011	(21) EP14739420.9
(87) US2017018898	28.01.2011	(47) 11.01.2023
31.08.2017	26.10.2010	(87) EP2014065030
(22) 22.02.2017	25.10.2010	22.01.2015
(54) INTEGRAL DOUBLE ROD SPINAL CONSTRUCT	(33) United States of America	(22) 14.07.2014
(73) Nuvasive, Inc.	United States of America	(54) DEVICE AND METHOD FOR CONNECTING A MEDICAL INSTRUMENT TO A POSITION-DETECTING SYSTEM
(72) SYLVIA, Ross	United States of America	(73) Intersect ENT GmbH
LISH, Scott	United States of America	(72) KRÜGER, Timo
GERMAN, Robert	United States of America	MUCHA, Dirk
(31) 201662298279 P	United States of America	(31) 102013214067
(32) 22.02.2016	United States of America	(32) 17.07.2013
(33) United States of America	United States of America	(33) Germany
(51) A61B 18/12	(51) A61B 18/20	(51) A61B 34/20
A61B 18/14	(11) EP3231385	(11) EP3162316
(11) EP3474760	(21) EP17170009.9	(21) EP15192564.1
(21) EP17743415.6	(47) 11.01.2023	(47) 11.01.2023
(47) 11.01.2023	(22) 25.11.2009	(22) 02.11.2015
(87) US2017039527	(54) LASER CUTTING DEVICE WITH AN EMISSION TIP FOR CONTACTLESS USE	(54) A SURGICAL INSTRUMENT SYSTEM
04.01.2018	(73) Biolase, Inc.	(73) Medivation AG
(22) 27.06.2017	(72) BOUTOUSSOV, Dmitri	(72) Stifter, Jan
(54) GENERATOR AND A CATHETER WITH AN ELECTRODE FOR TREATING A LUNG PASSAGEWAY	ANDRIASYAN, Manvel	Schwägli, Tobias
(73) Galvanize Therapeutics, Inc.	(31) 156440 P	(51) A61B 34/32
(72) WALDSTREICHER, Jonathan Reuben	118609 P	A61B 34/30
KRIMSKY, William Sanford	(32) 27.02.2009	(11) EP3463164
ZARINS, Denise Marie	29.11.2008	(21) EP17728712.5
BEETEL, Robert J., III	(33) United States of America	(47) 11.01.2023
FRIEDRICHS, Paul Brian	United States of America	(87) US2017033962
TAYLOR, Kevin James	(51) A61B 34/00	30.11.2017
TUROVSKIY, Roman	A61B 1/12	(22) 23.05.2017
LONG, Gary L.	(11) EP3185807	(54) SYSTEMS AND METHODS FOR IDENTIFYING AND TRACKING PHYSICAL OBJECTS DURING A ROBOTIC SURGICAL PROCEDURE
(31) 201762489753 P	(21) EP15754135.0	(73) MAKO Surgical Corp.
201662355164 P	(47) 11.01.2023	(72) ROESSLER, Patrick
(32) 25.04.2017	(87) EP2015068437	(31) 201662340176 P
27.06.2016	03.03.2016	(32) 23.05.2016
(33) United States of America	(22) 11.08.2015	(33) United States of America
United States of America	(54) METHOD AND SYSTEM FOR OPERATING A RECONDITIONING APPARATUS FOR SURGICAL INSTRUMENTS	(51) A61C 7/00
(51) A61B 18/14	(73) Olympus Winter & Ibe GmbH	(11) EP3927276
A61M 25/00	(72) THATE, Henning	(21) EP20714673.9
(11) EP3100696	(31) 102014217335	(47) 11.01.2023
(21) EP16180890.2	(32) 29.08.2014	(87) FR2020050348
(47) 11.01.2023	(33) Germany	27.08.2020
(22) 25.10.2011	(51) A61B 34/10	(22) 24.02.2020
(54) CATHETER APPARATUSES HAVING MULTI-ELECTRODE ARRAYS FOR RENAL NEUROMODULATION	A61N 7/02	(54) METHOD FOR ESTIMATING AND VIEWING A RESULT OF A DENTAL TREATMENT PLAN
(73) Medtronic Ardian Luxembourg S.à.r.l.	(11) EP2950737	(73) Deepsmile Technology
(72) MAUCH, Kevin	(21) EP14721003.3	(72) BEN-HAMADOU, Achraf
CHANG, William	(47) 11.01.2023	REKIK, Ahmed
GOSHGARIAN, Justin	(87) IB2014000382	SETBON, Hugo
RIVERA, Leonila	07.08.2014	(31) 1903007
ROTHMAN, Martin	(22) 29.01.2014	1901837
(31) 201161546512 P	(54) SIMULATION-BASED FOCUSED-ULTRASOUND TREATMENT PLANNING	(32) 22.03.2019
201161528684 P	(73) Insightec Ltd.	22.02.2019
201161528091 P	(72) LEVY, Yoav	(33) France
201161528108 P	ASSIF, Benny	France
201161528086 P	HALEVY, Gilad	(51) A61C 8/00
201161528001 P	HERTZBERG, Yoni	A61L 27/50
201161572290 P	(31) 201361757990 P	
406960 P		
406531 P		
(32) 12.10.2011		

(11) EP3687441	A61M 29/02	RANGWALA, Hussain
(21) EP18773218.5	A61F 2/95	SAFFARI, Payam
(47) 11.01.2023	A61M 25/10	LORDEUS, Makensley
(87) EP2018076309	A61F 2/958	CHOW, Vincent Ming Hai
04.04.2019	(11) EP3308745	(31) 201762491391 P
(22) 27.09.2018	(21) EP17201038.1	201662336153 P
(54) PROCESS FOR THE PREPARATION	(47) 11.01.2023	(32) 28.04.2017
OF NANOSTRUCTURES ON A DENTAL	(22) 27.07.2012	13.05.2016
IMPLANT	(54) DELIVERY SYSTEMS FOR	(33) United States of America
(73) Straumann Holding AG	PROSTHETIC HEART VALVE	United States of America
(72) CUEILLE, Christophe	(73) Edwards Lifesciences Corporation	(51) A61F 7/00
BERNER, Simon	(72) TRAN, Tri D.	A61F 7/02
(31) 17193452	CAYABYAB, Ronaldo	(11) EP3493776
(32) 27.09.2017	EVANS, David J.	(21) EP17745746.2
(33) European Patent Office (EPO)	CHOW, Sean	(47) 11.01.2023
(51) A61C 17/22	CHIA, Christopher	(87) EP2017069486
(11) EP3694441	(31) 201213559284	08.02.2018
(21) EP18785952.5	201161512328 P	(22) 02.08.2017
(47) 11.01.2023	(32) 26.07.2012	(54) THERMAL SKIN TREATMENT DEVICE
(87) EP2018077787	27.07.2011	(73) Koninklijke Philips N.V.
18.04.2019	(33) United States of America	(72) BOSMA, Ivar
(22) 11.10.2018	United States of America	DE GRAAF, Jeroen
(54) ELECTRIC TOOTHBRUSH HANDPIECE	(51) A61F 2/36	MULDER, Bernardo, Arnoldus
(73) Trisa Holding AG	(11) EP3355833	(31) 16183132
(72) ZWIMPFER, Martin	(21) EP16849960.6	(32) 05.08.2016
KIRCHHOFER, Pierre, Fredy	(47) 11.01.2023	(33) European Patent Office (EPO)
FISCHER, Herbert	(87) AU2016050922	(51) A61F 7/12
(31) 17195869	06.04.2017	A61F 11/00
(32) 11.10.2017	(22) 29.09.2016	A61M 3/02
(33) European Patent Office (EPO)	(54) HIP PROSTHESIS	A61F 7/00
(51) A61F 2/00	(73) Kirwan, David Phillip	(11) EP3799564
A61F 2/08	(72) Kirwan, David Phillip	(21) EP19746443.1
A61F 2/12	(31) 2015903981	(47) 11.01.2023
A61B 90/00	(32) 30.09.2015	(87) EP2019068917
A61L 27/58	(33) Australia	16.01.2020
A61L 27/52	(51) A61F 2/88	(22) 12.07.2019
A61L 27/40	A61F 2/91	(54) SPRAY HEAD FOR A DEVICE FOR
(11) EP3352704	A61F 2/915	PRODUCING A STREAM OF AIR IN
(21) EP16767321.9	(11) EP3613387	THE OUTER EAR
(47) 11.01.2023	(21) EP19202499.0	(73) EARBREEZE GMBH
(87) EP2016072448	(47) 11.01.2023	(72) KURSCHHEL, Martin
30.03.2017	(22) 04.04.2006	(31) 18183434
(22) 21.09.2016	(54) FLEXIBLE STENT	(32) 13.07.2018
(54) THREE-DIMENSIONAL MEDICAL	(73) Flexible Stenting Solutions, Inc.	(33) European Patent Office (EPO)
IMPLANT FOR REGENERATION OF	(72) BURPEE, Janet	(51) A61F 11/00
SOFT TISSUE	BEACH, Bradley	(11) EP2841036
(73) Novus Scientific AB	(31) 250226	(21) EP13718264.8
(72) MATHISEN, Torbjörn	667613 P	(47) 11.01.2023
WISTRAND, Anna	(32) 14.10.2005	(87) US2013035953
(31) 201562222571 P	04.04.2005	17.10.2013
(32) 23.09.2015	(33) United States of America	(22) 10.04.2013
(33) United States of America	United States of America	(54) TYMPANIC MEMBRANE PRESSURE
(51) A61F 2/00	(51) A61F 2/966	EQUALIZATION TUBE
A61F 2/24	A61F 2/24	(73) Tusker Medical, Inc.
(11) EP3563799	A61F 2/00	(72) CLOPP, Mathew, D.
(21) EP19172035.8	(11) EP3454795	BARON, Scott, J.
(47) 11.01.2023	(21) EP17726153.4	ANDREAS, Bernard, H.
(22) 30.04.2019	(47) 11.01.2023	(31) 201313800113
(54) HEART VALVE HOLDER	(87) IB2017052718	201261622274 P
(73) St. Jude Medical, Cardiology Division,	16.11.2017	(32) 13.03.2013
Inc.	(22) 10.05.2017	10.04.2012
(72) KALETA, Richard	(54) HEART VALVE PROSTHESIS	(33) United States of America
(31) 201862664401 P	DELIVERY SYSTEM FOR DELIVERY	United States of America
(32) 30.04.2018	OF HEART VALVE PROSTHESIS WITH	(51) A61F 13/00
(33) United States of America	INTRODUCER SHEATH AND LOADING	A61F 13/02
(51) A61F 2/24	SYSTEM	A61M 1/00
A61M 39/22	(73) JenaValve Technology, Inc.	A61L 27/52
A61F 2/76	(72) SCHRECK, Stefan	(11) EP3563816

(21) EP19178885.0	(73) The Procter & Gamble Company	(47) 11.01.2023
(47) 11.01.2023	(72) ASHRAF, Arman	(87) US2015033540
(22) 17.01.2008	Weisman, Paul Thomas	23.12.2015
(54) BIOCOMPATIBLE WOUND DRESSING	(31) 201562268759 P	(22) 01.06.2015
(73) 3M Innovative Properties Company	(32) 17.12.2015	(54) EXOSKELETON AND METHOD OF
(72) JOHNSON, Royce	(33) United States of America	INCREASING THE FLEXIBILITY OF AN
AMBROSIO, Archel	(51) A61G 3/06	EXOSKELETON HIP JOINT
(31) 657887	B60P 1/44	(73) Ekso Bionics, Inc.
(32) 25.01.2007	(11) EP3173055	(72) ANGOLD, Rusndon
(33) United States of America	(21) EP16002514.4	FLEMING, Nicholas
(51) A61F 13/02	(47) 11.01.2023	(31) 201462007511 P
(11) EP2712312	(22) 25.11.2016	(32) 04.06.2014
(21) EP11791607.2	(54) BUS, ESPECIALLY A TRAVEL BUS	(33) United States of America
(47) 11.01.2023	(73) MAN Truck & Bus SE	(51) A61H 15/00
(87) GB2011001553	(72) Landsherr, Thomas	A61H 7/00
22.11.2012	Obermeier, Hellen	(11) EP3764970
(22) 02.11.2011	Wagner, Jürgen	(21) EP19767015.1
(54) NEGATIVE-PRESSURE WOUND	(31) 102015015387	(47) 11.01.2023
TREATMENT APPARATUS	(32) 28.11.2015	(87) AU2019050222
(73) Smith & Nephew plc	(33) Germany	19.09.2019
(72) HARTWELL, Samantha Dawn	(51) A61G 3/06	(22) 12.03.2019
HUDSON, Donald Anthon	B60P 1/44	(54) PRESSURE APPLICATOR ASSEMBLY
(31) 201108229	(11) EP3551152	FOR EXERCISE AND REHABILITATION
(32) 17.05.2011	(21) EP17829338.7	(73) Body Organics Pty Ltd
(33) United Kingdom	(47) 11.01.2023	(72) SCHWARER, Michael Edward
(51) A61F 13/15	(87) IT2017050002	(31) 2018900820
(11) EP3903751	14.06.2018	(32) 13.03.2018
(21) EP19905749.8	(22) 06.12.2017	(33) Australia
(47) 11.01.2023	(54) LIFT APPARATUS	(51) A61H 31/00
(87) JP2019044318	(73) Olmedo Special Vehicles S.p.A.	(11) EP3964188
02.07.2020	(72) MOLINARO, Daniele	(21) EP21204622.1
(22) 12.11.2019	MENGONI, Emanuele	(47) 11.01.2023
(54) ABSORBENT ARTICLE	(31) 201600124657	(22) 28.07.2017
MANUFACTURING DEVICE AND	(32) 09.12.2016	(54) MECHANICAL CPR WITH SELECTIVE
MANUFACTURING METHOD	(33) Italy	ZERO-POSITION & COMPRESSION
(73) Zuiko Corporation	(51) A61G 5/08	DEPTH ADJUSTMENT
(72) INOUE, Daisuke	A61G 5/12	(73) Jolife AB
ARIMA, Takashi	(11) EP3884917	(72) HÅRDIG, Bjarne Madsen
(31) 2018247299	(21) EP20186175.4	ARNWALD, Karl Fredrik Mauritz
(32) 28.12.2018	(47) 11.01.2023	NILSSON, Anders
(33) Japan	(22) 16.07.2020	VON SCHENCK, Erik C.B.
(51) A61F 13/42	(54) FOLDING WHEELCHAIR	LINDROTH, Sara K
A61F 13/49	(73) AnyoneGo, s.r.o.	(31) 201662378651 P
A61B 5/00	(72) Jiránek, Jan	201662370654 P
G01N 27/04	(31) 20203735	(32) 23.08.2016
(11) EP3471677	(32) 23.03.2020	03.08.2016
(21) EP17814259.2	(33) Czech Republic	(33) United States of America
(47) 11.01.2023	(51) A61G 15/00	United States of America
(87) US2017038146	A61G 15/02	(51) A61H 33/14
21.12.2017	A61G 15/12	A61B 5/00
(22) 19.06.2017	(11) EP3643285	A61B 5/08
(54) SENSOR FOR ABSORBENT ARTICLE	(21) EP19200564.3	A61H 31/00
(73) Medline Industries, LP	(47) 11.01.2023	(11) EP3639735
(72) CHRISTIANSEN, Michelle	(22) 30.09.2019	(21) EP19197438.5
FOGEL, Jeremy, Stephen	(54) DENTAL PATIENT CHAIR	(47) 11.01.2023
BOWSER, William	(73) CEFLA SOCIETA' COOPERATIVA	(22) 16.09.2019
(31) 201662351372 P	(72) GIRELLI, Francesco	(54) MONITORING OR VENTILATION
(32) 17.06.2016	GRANDI, Stefano	DEVICE FOR CARDIOPULMONARY
(33) United States of America	(31) 201800009691	RESUSCITATION WITH
(51) A61F 13/511	(32) 23.10.2018	DETERMINATION OF AN INDEX OF
D04H 3/07	(33) Italy	OPENING OF THE AIRWAYS
D04H 3/14	(51) A61H 3/00	(73) Air Liquide Medical Systems
D04H 3/16	A61H 1/02	(72) RICHARD, Jean-Christophe
(11) EP3858316	B25J 9/00	RIGOLLOT, Marceau
(21) EP21164276.4	B25J 17/00	BADAT, Bilal
(47) 11.01.2023	(11) EP3151804	(31) 1859509
(22) 08.12.2016	(21) EP15810062.8	(32) 15.10.2018
(54) SHAPED NONWOVEN		(33) France

<p>(51) A61K 6/30 A61K 6/887 A61K 6/61 (11) EP2450027 (21) EP11187943.3 (47) 11.01.2023 (22) 04.11.2011 (54) DENTAL COMPOSITIONS HAVING SPECIAL FUNCTIONALITY AND TRI-BARREL PACKAGING (73) Kerr Corporation (72) Qian, Xuejun Tobia, David A (31) 410565 P 410443 P 410171 P 201113288347 (32) 05.11.2010 05.11.2010 04.11.2010 03.11.2011 (33) United States of America United States of America United States of America United States of America</p> <hr/> <p>(51) A61K 8/34 A61K 8/37 A61K 8/49 A61K 8/55 A61K 8/60 A61Q 19/02 A61K 8/86 A61K 31/498 A61P 15/10 A61K 8/06 (11) EP3595622 (21) EP18718504.6 (47) 11.01.2023 (87) IB2018051703 20.09.2018 (22) 14.03.2018 (54) USE OF HETEROCYCLIC COMPOUNDS IN THE TREATMENT OF PIGMENTED SKIN (73) Atir Holding S.A. (72) MUNBLIT, Izabella TSIPE, Karina (31) 201762470898 P (32) 14.03.2017 (33) United States of America</p> <hr/> <p>(51) A61K 8/41 A61Q 5/00 A61Q 5/12 A61Q 7/00 A61K 8/362 (11) EP3897559 (21) EP19828738.5 (47) 11.01.2023 (87) EP2019086348 25.06.2020 (22) 19.12.2019 (54) PROCESS FOR TREATING KERATIN FIBERS USING A COMPOSITION COMPRISING A CARNITINE SALT OR CARNITINE DERIVATIVE SALT COMPRISING AN ALIPHATIC DICARBOXYLIC ACID ANION (73) L'OREAL</p>	<p>(72) GREAVES, Andrew (31) 1873554 (32) 20.12.2018 (33) France</p> <hr/> <p>(51) A61K 9/00 A61K 9/06 A61K 9/08 A61K 9/107 A61K 31/55 A61K 47/32 A61K 47/38 A61P 17/06 (11) EP3908255 (21) EP20712690.5 (47) 11.01.2023 (87) IB2020051967 17.09.2020 (22) 06.03.2020 (54) STABLE TOPICAL COMPOSITIONS OF FENOLDOPAM (73) Taro Pharmaceutical Industries Ltd. (72) SHIFRIN, Helena SHRAIFEL, Alexandra ROSENBERGER, Vered SCHLINGER, Ron SHESKIN, Tzviel AVRAMOFF, Avi (31) 201962815893 P (32) 08.03.2019 (33) United States of America</p> <hr/> <p>(51) A61K 31/122 C07C 49/757 C07D 307/20 C07C 49/84 A61P 17/00 A61P 37/08 (11) EP3541777 (21) EP17871044.8 (47) 11.01.2023 (87) US2017062121 24.05.2018 (22) 17.11.2017 (54) COMPOSITIONS FOR TREATING ATOPIC DERMATITIS (73) Golden Biotechnology Corporation (72) LIU, Sheng-Yung CHEN, Chih-Ming (31) 201662423783 P (32) 18.11.2016 (33) United States of America</p> <hr/> <p>(51) A61K 31/155 A61K 31/522 A61P 3/00 A61K 47/18 (11) EP2482812 (21) EP10760351.6 (47) 11.01.2023 (87) EP2010064691 07.04.2011 (22) 01.10.2010 (54) PHARMACEUTICAL COMPOSITIONS COMPRISING BI-1356 AND METFORMIN (73) Boehringer Ingelheim International GmbH (72) MEINICKE, Thomas (31) 09172117 (32) 02.10.2009</p>	<p>(33) European Patent Office (EPO)</p> <hr/> <p>(51) A61K 31/16 A01N 37/18 A61P 31/04 C07C 237/20 C07D 213/75 A01N 37/22 C07D 213/81 C07D 215/38 C07D 215/40 C07D 217/22 C07D 317/66 C07D 231/56 C07D 333/38 C07D 333/54 C07D 235/06 C07D 401/12 C07D 237/30 C07D 409/12 (11) EP3102193 (21) EP15745890.2 (47) 11.01.2023 (87) US2015014899 13.08.2015 (22) 06.02.2015 (54) ANTIBACTERIAL AGENTS: N(ALPHA)-AROYL-N-ARYL-PHENYLALANINAMIDES (73) Rutgers, The State University of New Jersey (72) EBRIGHT, Richard, H. EBRIGHT, Yon, W. MANDAL, Soma WILDE, Richard LI, Shengjian (31) 201461936710 P (32) 06.02.2014 (33) United States of America</p> <hr/> <p>(51) A61K 31/185 A61P 27/02 (11) EP3720428 (21) EP18811023.3 (47) 11.01.2023 (87) EP2018082999 13.06.2019 (22) 29.11.2018 (54) OPHTHALMIC TOPICAL COMPOSITION COMPRISING DOBESILIC ACID FOR TREATING DISEASES OF THE POSTERIOR SEGMENT OF THE EYE (73) Laboratorios SALVAT, S.A. (72) CAPDEVILA NORTES, Xavier SANAGUSTÍN AQUILUÉ, Javier DELGADO GAÑÁN, María Isabel (31) 17382832 (32) 04.12.2017 (33) European Patent Office (EPO)</p> <hr/> <p>(51) A61K 31/192 A61K 9/00 A61P 11/00 (11) EP3763362 (21) EP20160047.5 (47) 11.01.2023 (22) 06.05.2015 (54) METHOD OF TREATING IDIOPATHIC PULMONARY FIBROSIS (73) MediciNova, Inc.</p>
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(72) MATSUDA, Kazuko	A61P 31/00	(47) 11.01.2023
IWAKI, Yuichi	A61P 31/04	(87) CN2016086863
(31) 201414490623	A61P 31/12	06.07.2017
201462006692 P	A61P 37/04	(22) 23.06.2016
201461990603 P	(11) EP3074003	(54) CUCURBITANE TETRACYCLIC
(32) 18.09.2014	(21) EP14824179.7	TRITERPENOID COMPOUND FOR USE
02.06.2014	(47) 11.01.2023	IN TREATING PULMONARY FIBROSIS
08.05.2014	(87) US2014066767	(73) Guangxi Xinhai Pharmaceutical
(33) United States of America	04.06.2015	Technology Co., Ltd.
United States of America	(22) 21.11.2014	(72) XIE, Haifeng
United States of America	(54) COMPOSITIONS FOR INDUCTION OF	ZHANG, Chaofeng
(51) A61K 31/198	IMMUNE RESPONSE	XIE, Qilin
A61K 45/06	(73) Zoetis Services LLC	HU, Yunling
A61K 38/28	(72) DOMINOWSKI, Paul Joseph	(31) 201511008841
A61P 3/10	MWANGI, Duncan	(32) 29.12.2015
A61P 37/00	BRICKER, Joseph M.	(33) China
(11) EP3432877	FOSS, Dennis L.	(51) A61K 31/7105
(21) EP17715858.1	RAI, Sharath K.	A61K 9/00
(47) 11.01.2023	MAHAN, Suman	A61K 9/127
(87) US2017023571	(31) 201361909045 P	A61P 35/00
28.09.2017	(32) 26.11.2013	A61P 1/16
(22) 22.03.2017	(33) United States of America	A61K 31/713
(54) D-ALPHA-METHYLDOPA FOR	(51) A61K 31/40	C12N 9/12
TREATING AUTOIMMUNE DISEASE	A61K 31/395	C12N 15/113
(73) ImmunoMolecular Therapeutics, Inc.	G01N 33/00	(11) EP3668523
The Regents of the University of	G01N 33/50	(21) EP18752777.5
Colorado, a body corporate	A61P 27/00	(47) 11.01.2023
(72) GOTTLIEB, Peter, A.	(11) EP3362063	(87) EP2018072036
MICHELS, Aaron	(21) EP16856248.6	21.02.2019
ORNDORFF, Steve	(47) 11.01.2023	(22) 14.08.2018
(31) 201662312702 P	(87) US2016056987	(54) PKLR INHIBITION IN THE TREATMENT
(32) 24.03.2016	20.04.2017	OF NAFLD AND HCC
(33) United States of America	(22) 14.10.2016	(73) ScandiEdge Therapeutics AB
(51) A61K 31/216	(54) HIGH-DOSE STATINS FOR AGE-	(72) MARDINOGLU, Adil
A61K 31/265	RELATED MACULAR DEGENERATION	BORÉN, Jan
A61K 31/381	(73) Massachusetts Eye & Ear Infirmary	UHLÉN, Mathias
A61P 25/04	(72) VAVVAS, Demetrios	(31) 17186181
A61P 29/00	MILLER, Joan W.	(32) 14.08.2017
A61P 25/06	(31) 201562241522 P	(33) European Patent Office (EPO)
(11) EP3743059	(32) 14.10.2015	(51) A61K 33/10
(21) EP19701525.8	(33) United States of America	A61K 33/06
(47) 11.01.2023	(51) A61K 31/497	A61P 7/04
(87) EP2019051904	A61K 9/20	A61K 31/194
01.08.2019	A61K 47/10	(11) EP3349766
(22) 25.01.2019	A61K 47/26	(21) EP16845849.5
(54) AMINO ACID DERIVATIVES	A61P 35/00	(47) 11.01.2023
CONTAINING A DISULFANYL GROUP	(11) EP3318259	(87) IL2016051039
IN THE FORM OF AN NEP AND APN	(21) EP16821324.7	23.03.2017
INHIBITOR FOR THE PREVENTION	(47) 11.01.2023	(22) 20.09.2016
AND TREATMENT OF TRIGEMINAL	(87) JP2016069615	(54) ANTI-HEMORRHAGING
NERVE PAIN	12.01.2017	COMPOSITIONS
(73) Pharmaleads	(22) 01.07.2016	(73) Ariel-University Research and
(72) PORAS, Hervé	(54) STABLE PHARMACEUTICAL	Development Company Ltd.
OUIMET, Tanja	COMPOSITION FOR ORAL	(72) BARANES, Danny
FOURNIE ZALUSKI, Marie Claude	ADMINISTRATION	GANCZ, Ayala
ROQUES, Bernard	(73) Astellas Pharma Inc.	ZUEV, Yekaterina
WURM, Michel	(72) MIYAZAKI, Masakazu	HAMMER, Liat
(31) 1850630	ISHIBA, Ryohei	(31) 201562221040 P
(32) 26.01.2018	TAKAISHI, Yuki	(32) 20.09.2015
(33) France	UEJO, Fumiaki	(33) United States of America
(51) A61K 31/357	(31) 2015134817	(51) A61K 35/17
A61K 31/7088	(32) 03.07.2015	A61K 39/00
A61K 31/745	(33) Japan	A61P 31/12
A61K 31/14	(51) A61K 31/575	A61K 39/12
A61K 31/575	A61K 31/704	A61P 27/02
A61K 31/7028	A61P 11/00	A61P 31/22
A61K 31/704	(11) EP3398603	(11) EP3756676
A61K 45/06	(21) EP16880458.1	(21) EP20190952.0

(47) 11.01.2023	(31) 201615065259	A61P 35/00
(22) 21.06.2016	(32) 09.03.2016	A61P 29/00
(54) METHODS OF TREATING CMV RETINITIS BY T CELL THERAPY	(33) United States of America	A61P 37/06
(73) Memorial Sloan Kettering Cancer Center Cornell University	(51) A61K 35/50	(11) EP3096775
(72) O'REILLY, Richard, John	A61P 43/00	(21) EP15741027.5
PROCKOP, Susan, Elizabeth	A61P 1/16	(47) 11.01.2023
DOUBROVINA, Ekaterina	A61P 1/18	(87) US2015012760
KOEHNE, Guenther	A61P 9/00	30.07.2015
HASAN, Aisha Nasreen	A61P 9/10	(22) 23.01.2015
KISS, Szilard	A61P 11/00	(54) SOCS MIMETICS FOR THE TREATMENT OF DISEASES
(31) 201562191304 P	A61P 11/02	(73) University of Florida Research Foundation, Inc.
201562185558 P	A61P 11/06	(72) JOHNSON, Howard, M.
(32) 10.07.2015	A61P 17/02	LARKIN, Joseph
26.06.2015	A61P 25/00	AHMED, Chulbul, M.
(33) United States of America	A61P 25/02	JAGER, Lindsey
United States of America	A61P 25/16	(31) 201461931363 P
(51) A61K 35/17	A61P 25/28	(32) 24.01.2014
C07K 14/725	A61P 29/00	(33) United States of America
C07K 14/705	A61P 37/08	(51) A61K 39/104
C07K 16/18	(11) EP3307286	C07K 14/21
C07K 16/28	(21) EP16806439.2	C12N 15/70
C07K 19/00	(47) 11.01.2023	C12N 5/10
C12N 5/0783	(87) AU2016050468	(11) EP3711776
C12N 15/62	15.12.2016	(21) EP20170090.3
(11) EP3340998	(22) 10.06.2016	(47) 11.01.2023
(21) EP16842639.3	(54) ALLOGENEIC MAMMALIAN AMNIOTIC EXOSOMES FOR TREATING A FIBROTIC DISEASE	(22) 13.10.2014
(47) 11.01.2023	(73) Hudson Institute of Medical Research Monash University	(54) MODIFIED HOST CELLS AND USES THEREOF
(87) US2016048638	(72) WALLACE, Euan	(73) GlaxoSmithKline Biologicals SA
09.03.2017	LIM, Rebecca	(72) KOWARIK, Michael
(22) 25.08.2016	(31) 2016901349	KEMMLER, Stefan J
(54) METHODS AND COMPOSITIONS FOR CELLS EXPRESSING A CHIMERIC INTRACELLULAR SIGNALING MOLECULE	2015902214	QUÉBASSE, Julien L
(73) The Trustees of the University of Pennsylvania	(32) 12.04.2016	FERON, Christiane Marie-Paule Simone Jeanne
Wayne State University	12.06.2015	(31) 201461980988 P
(72) JUNE, Carl H.	(33) Australia	(32) 17.04.2014
MILONE, Michael	Australia	(33) United States of America
ZHAO, Yangbing	(51) A61K 38/12	(51) A61K 39/12
LUM, Lawrence G.	A61P 7/00	(11) EP3539565
THAKUR, Archana	A61P 37/02	(21) EP19168475.2
(31) 201562211295 P	A61M 5/30	(47) 11.01.2023
(32) 28.08.2015	(11) EP3685847	(22) 12.03.2014
(33) United States of America	(21) EP20157916.6	(54) COMPOSITIONS AND METHODS FOR DENGUE VIRUS CHIMERIC CONSTRUCTS IN VACCINES
(51) A61K 35/32	(47) 11.01.2023	(73) Takeda Vaccines, Inc.
A61P 25/00	(22) 07.12.2016	The Government of The United States of America as represented by The Secretary of The Department of Health and Human Services
A61P 25/08	(54) MODULATORS OF COMPLEMENT ACTIVITY	(72) STINCHCOMB, Dan, T.
A61P 25/14	(73) RA Pharmaceuticals, Inc.	KINNEY, Claire
A61P 25/16	(72) Demarco, Steven James	KINNEY, Richard, M.
A61P 25/28	Hoarty, Michelle Denise	LIVENGOOD, Jill, A.
(11) EP3426267	Parker, Grace Victoria	(31) 201361800204 P
(21) EP17712549.9	Ricardo, Alonso	(32) 15.03.2013
(47) 11.01.2023	Tobe, Sylvia	(33) United States of America
(87) IB2017051404	Treco, Douglas A.	(51) A61K 39/12
14.09.2017	(31) 201662347486 P	C12Q 1/70
(22) 09.03.2017	201662331320 P	G01N 33/52
(54) USES OF DENTAL PULP STEM CELLS EXPRESSING MESENCHYMAL AND NEURONAL MARKERS AND COMPOSITIONS THEREOF TO TREAT NEUROLOGICAL DISEASE	201562268360 P	G01N 33/564
(73) Avita International Ltd.	(32) 08.06.2016	(11) EP3613431
Fundação Butantan	03.05.2016	(21) EP19199107.4
(72) KERKIS, Irina	16.12.2015	(47) 11.01.2023
VALVERDE WENCESLAU, Cristiane	(33) United States of America	(22) 27.03.2013
	United States of America	
	United States of America	
	United States of America	
	(51) A61K 38/17	
	C07K 14/435	
	C12N 15/63	
	C12Q 1/68	

(54) METHODS FOR DETECTION OF ANTI-CYTOMEGALOVIRUS NEUTRALIZING ANTIBODIES	(54) IMMUNOCONJUGATE SYNTHESIS METHOD	(54) ORAL CARE IMPLEMENT SANITIZATION SYSTEM
(73) Variation Biotechnologies Inc.	(73) Bolt Biotherapeutics, Inc.	(73) Colgate-Palmolive Company
(72) ANDERSON, David	(72) JACKSON, David Y.	(72) JIMENEZ, Eduardo
BOZIC, Jasminka	ALONSO, Michael N.	HOHLBEIN, Douglas
ONTSOUKA, Barthelemy	LEE, Arthur	JOHANSSON, Patrik
(31) 201261616204 P	LAURA, Richard P.	(51) A61L 9/22
(32) 27.03.2012	(31) 201762530095 P	(11) EP2974750
(33) United States of America	201762526347 P	(21) EP15176824.9
(51) A61K 39/395	201762485899 P	(47) 11.01.2023
A61K 38/17	PCT/US2017/041268	(22) 15.07.2015
C07K 14/435	(32) 07.07.2017	(54) STERILIZATION AND DEODORIZATION APPARATUS
C07K 16/24	28.06.2017	(73) LG Electronics Inc.
C07K 16/28	14.04.2017	(72) JUNG, Yeekyeong
A61P 9/10	07.07.2017	YOON, Kyungsoo
(11) EP3811972	(33) United States of America	JANG, Jaesoo
(21) EP20202013.7	United States of America	SUNG, Bongjo
(47) 11.01.2023	United States of America	(31) 20140089497
(22) 25.02.2016	World Intellectual Property Office (WIPO)	(32) 16.07.2014
(54) COMBINATION THERAPY FOR TREATMENT OF ATHEROSCLEROSIS	(51) A61K 47/58	(33) Korea (Republic)
(73) The Board of Trustees of the Leland Stanford Junior University	A61K 47/60	(51) A61L 15/28
(72) LEEPER, Nicholas J.	A61K 47/69	A61L 15/18
WEISSMAN, Irving L.	A61P 35/00	A61L 15/46
(31) 201562126260 P	C08F 293/00	A61L 15/58
(32) 27.02.2015	C08F 220/28	A61F 13/514
(33) United States of America	(11) EP3541427	A61F 13/84
(51) A61K 45/06	(21) EP17809387.8	(11) EP3471786
A61K 35/00	(47) 11.01.2023	(21) EP17812438.4
A61P 1/00	(87) IB2017057155	(47) 11.01.2023
A61P 29/00	24.05.2018	(87) CN2017079640
A61P 31/00	(22) 16.11.2017	21.12.2017
A61K 31/702	(54) SELF-ASSEMBLED DIBLOCK COPOLYMERS COMPOSED OF PEGMEMA AND DRUG BEARING POLYMERIC SEGMENTS	(22) 07.04.2017
A23L 33/21	(73) RS Arastirma Egitim Danismanlik Ilac Sanayi Ticaret Anonim Sirketi	(54) ABSORBENT ARTICLE HAVING ODOR ABSORBING MATERIAL
A61P 1/04	(72) SANYAL, Rana	(73) The Procter & Gamble Company
A23L 33/00	SANYAL, Amitav	(72) MALDONADO, Clarissa
(11) EP3264923	KAGA, Sadik	SUN, Kun
(21) EP16711536.9	(31) 201619372	TEE, Johansson Jimmy, Jr.
(47) 11.01.2023	(32) 16.11.2016	BROYLES, Norman Scott
(87) EP2016054617	(33) United Kingdom	(31) PCT/CN2016/085985
09.09.2016	(51) A61K 48/00	(32) 16.06.2016
(22) 04.03.2016	A61K 9/127	(33) World Intellectual Property Office (WIPO)
(54) COMPOSITIONS FOR USE IN THE PREVENTION OR TREATMENT OF GASTROINTESTINAL INFECTIONS IN INFANTS OR YOUNG CHILDREN	A61K 39/00	(51) A61L 29/14
(73) Société des Produits Nestlé S.A.	(11) EP4043040	A61L 33/00
(72) SPRENGER, Norbert	(21) EP22166818.9	A61M 25/00
BRASSART, Dominique	(47) 11.01.2023	(11) EP3413942
EGLI, Delphine	(22) 31.08.2011	(21) EP17708011.6
(31) 15157725	(54) SMALL LIPOSOMES FOR DELIVERY OF IMMUNOGEN-ENCODING RNA	(47) 11.01.2023
(32) 05.03.2015	(73) GlaxoSmithKline Biologicals SA	(87) US2017016682
(33) European Patent Office (EPO)	(72) GEALL, Andrew	17.08.2017
(51) A61K 47/55	VERMA, Ayush	(22) 06.02.2017
A61K 47/68	(31) 37883110 P	(54) CATHETER LOCKING SOLUTION AND CATHETER LOCKING THERAPY
A61P 35/00	(32) 31.08.2010	(73) Medical Components, Inc.
C07K 16/28	(33) United States of America	(72) BABU, Premkumar
C07K 16/30	(51) A61L 2/10	BROZANSKI, Benjamin R.
C07K 16/32	A46B 17/06	PAGANO, Lisa
(11) EP3609540	A46B 11/00	BENNETT, Jeffrey S.
(21) EP18722830.9	(11) EP3528853	(31) 201662294478 P
(47) 11.01.2023	(21) EP16791724.4	(32) 12.02.2016
(87) US2018027771	(47) 11.01.2023	(33) United States of America
18.10.2018	(87) US2016057613	(51) A61L 29/16
(22) 16.04.2018	26.04.2018	A61L 31/16
	(22) 19.10.2016	(11) EP2886137
		(21) EP15154223.0
		(47) 11.01.2023
		(22) 03.11.2010

(54) A balloon catheter for angioplasty and coronary angioplasty and a method of manufacturing the balloon catheter	A61M 3/02 A61M 39/10 A61B 17/22	(22) 20.02.2018 (54) BOTTLE HOLDER FOR A SYRINGE (73) Henke-Sass, Wolf GmbH
(73) Angioscore Inc.	(11) EP3512574	(72) EISELE, Melanie
(72) Speck, Ulrich Berg, Madeleine Caroline	(21) EP17734483.5 (47) 11.01.2023	GAMBONI, Fabian
(31) 10160347	(87) IB2017053510	(31) 102017106149
(32) 19.04.2010	22.03.2018	(32) 22.03.2017
(33) European Patent Office (EPO)	(22) 13.06.2017	(33) Germany
(51) A61L 31/08	(54) CONNECTOR FOR SURGICAL HANDPIECE	(51) A61M 5/24 A61M 5/32
(11) EP3651818	(73) Integra LifeSciences Enterprises, LLLP	(11) EP3153196
(21) EP18752275.0	(72) KETELHOHN, Robert A.	(21) EP16195290.8
(47) 11.01.2023	COTTER, Daniel J.	(47) 11.01.2023
(87) IB2018055113	MANANDHAR, Prakash	(22) 05.12.2012
17.01.2019	BERTORELLI, John	(54) SYRINGE CARRIER
(22) 11.07.2018	GUPTA, Saurav V.	(73) Sanofi-Aventis Deutschland GmbH
(54) METHOD FOR TREATING AN ARTICLE MADE OF FIBROUS MATERIAL, ARTICLE OBTAINED BY SAID METHOD AND MEDICAL AND/OR HEALTH CARE AND/OR PERSONAL CARE DEVICE COMPRISING SAID ARTICLE	LEMIEUX, Erin-Anne A. (31) 201662421645 P 201662394994 P (32) 14.11.2016 15.09.2016	(72) HOURMAND, Yannick JENNINGS, Douglas Ivan EKMAN, Matthew (31) 11192585 (32) 08.12.2011 (33) European Patent Office (EPO)
(73) Materias S.r.l.	(33) United States of America United States of America	(51) A61M 5/315 A61M 5/32 A61M 5/24
(72) NICOLAIS, Luigi D'ANNA, Andrea DE FALCO, Gianluigi COMMODO, Mario MINUTOLO, Patrizia SQUILLACE, Antonino DEL GAUDIO, Pasquale	(51) A61M 1/14 A61M 1/16 (11) EP3302604 (21) EP16729699.5 (47) 11.01.2023 (87) US2016034742 08.12.2016 (22) 27.05.2016	(11) EP3897787 (21) EP19836582.7 (47) 11.01.2023 (87) IB2019061183 25.06.2020 (22) 20.12.2019
(31) 201700078999	(54) SENSOR CALIBRATION FOR DIALYSIS SYSTEMS	(54) A PISTON FOR A TUBULAR VIAL, TUBULAR VIAL AND CORRESPONDING INJECTION KIT
(32) 13.07.2017	(73) Fresenius Medical Care Holdings, Inc.	(73) Mariani, Umberto
(33) Italy	(72) WANG, Aiyuan WANG, Fei CRNKOVICH, Martin Joseph	(72) Mariani, Umberto (31) 201800020905 (32) 21.12.2018 (33) Italy
(51) A61M 1/00	(31) 201514728611 (32) 02.06.2015 (33) United States of America	(51) A61M 5/32 A61M 5/34 A61M 5/31 A61M 5/178 A61J 1/20
(11) EP2945658	(51) A61M 1/34	(11) EP3181167
(21) EP14700013.7	(11) EP3892313	(21) EP16201239.7
(47) 11.01.2023	(21) EP20168991.6 (47) 11.01.2023	(47) 11.01.2023
(87) GB2014050024	(22) 09.04.2020	(22) 29.11.2016
24.07.2014	(54) APPARATUS FOR EXTRACORPOREAL BLOOD TREATMENT	(54) SHORT INJECTION LENGTH SYRINGE
(22) 06.01.2014	(73) Gambro Lundia AB	(73) Becton, Dickinson and Company
(54) FAT PROCESSING DEVICE	(72) ROVATTI, Paolo	(72) LIMAYE, Amit O'HARA, Kevin SCHIFF, David GALA, Jesse
(73) TSI Technology Limited	(51) A61M 5/20	(31) 201562261100 P
(72) GOURLAY, Terence	(11) EP2668969	(32) 30.11.2015
(31) 201300716	(21) EP13177327.7 (47) 11.01.2023	(33) United States of America
(32) 15.01.2013	(22) 10.06.2009	(51) A61M 16/06 A61M 16/08
(33) United Kingdom	(54) Automatic injection device with trigger lock	(11) EP3231470 (21) EP16205363.1 (47) 11.01.2023 (22) 30.09.2011
(51) A61M 1/00	(73) Cilag GmbH International	(54) MASK SYSTEM
(11) EP3597231	(72) Hogwood, Jonathan Burnell, Rosemary Louise Jennings, Douglas Ivan	(73) ResMed Pty Ltd
(21) EP19186464.4	(31) 0811348	(72) FORMICA, Justin John
(47) 11.01.2023	(32) 19.06.2008	ROMAGNOLI, Jose Ignacio
(22) 16.07.2019	(33) United Kingdom	KWOK, Philip Rodney
(54) SYSTEMS AND METHODS FOR INERTIAL SENSING FOR VAD DIAGNOSTICS AND CLOSED LOOP CONTROL	(51) A61M 5/20	
(73) TC1 LLC	(11) EP3378510	
(72) Hansen, John Freddy Hill, John Donald Andriola, Peter Harjes, Daniel I. Lee, Eric Valchera, Gionata Rondeau, Nichole Salltakaj, Urim	(21) EP18157539.0 (47) 11.01.2023	
(31) 201862699500 P		
(32) 17.07.2018		
(33) United States of America		
(51) A61M 1/00		

GIBSON, Joel Edward	GAUSSA, William	29.10.2020
PIDCOCK, David Anthony	(31) 201762588670 P	(22) 10.04.2020
Skipper, Christopher Scott	(32) 20.11.2017	(54) SEALS FOR LEAD BORES OF
Gray, Stephen	(33) United States of America	IMPLANTABLE MEDICAL DEVICES
(31) 201161528524 P	(51) A61M 25/00	(73) Medtronic, Inc.
201161457981 P	(11) EP3508242	(72) DEININGER, Steven T.
201161443623 P	(21) EP16836041.0	CLAYTON, Jeffrey
388357 P	(47) 11.01.2023	HILLEBRAND, Thomas M.
(32) 29.08.2011	(87) JP2016075683	GEORGE, Jenna
27.07.2011	08.03.2018	WANG, Bin
16.02.2011	(22) 01.09.2016	HEGLAND, Michael T.
30.09.2010	(54) CATHETER	JANZIG, Darren A.
(33) United States of America	(73) ASAHU INTECC CO., LTD.	SKUBITZ, Sean P.
United States of America	(72) SHIMIZU Hiroto	STONE, Richard T.
United States of America	(51) A61M 25/10	SEELEY, Dale F.
United States of America	(11) EP3473292	VAIDYA, Salil M.
(51) A61M 16/10	(21) EP17853157.0	(31) 201916396474
B01D 46/00	(47) 11.01.2023	(32) 26.04.2019
(11) EP4008384	(87) JP2017034208	(33) United States of America
(21) EP21211191.8	29.03.2018	(51) A61N 1/378
(47) 11.01.2023	(22) 22.09.2017	A61N 1/36
(22) 30.11.2021	(54) BALLOON WRAPPING MACHINE	A61N 1/05
(54) SINGLE-USE FILTER WITH PRINTING	(73) Terumo Kabushiki Kaisha	(11) EP3341074
(73) Drägerwerk AG & Co. KGaA	(72) KUROSAKI, Yasuo	(21) EP16840932.4
(72) Ise, Edgar	GOTO, Hiroshi	(47) 11.01.2023
Hampe, Markus	(31) 2016185601	(87) IB2016055161
(31) 102020132320	(32) 23.09.2016	09.03.2017
(32) 04.12.2020	(33) Japan	(22) 29.08.2016
(33) Germany	(51) A61N 1/372	(54) IMPLANTABLE STIMULATING
(51) A61M 16/20	A61N 1/36	ASSEMBLY
A61M 11/04	(11) EP3544671	(73) Cochlear Limited
A61M 16/16	(21) EP17794562.3	(72) SIBARY, Peter Raymond
A61M 16/10	(47) 11.01.2023	PAWSEY, Nicholas Charles
A63B 21/008	(87) US2017057851	(31) 201562211434 P
A63B 23/18	31.05.2018	(32) 28.08.2015
A63B 21/00	(22) 23.10.2017	(33) United States of America
A61M 16/00	(54) SYSTEMS FOR PROGRAMMING	(51) A61N 5/06
A61B 5/087	NEUROMODULATION THERAPY	A61B 18/22
A63B 23/03	(73) Boston Scientific Neuromodulation	A61B 18/00
(11) EP3653252	Corporation	A61B 18/20
(21) EP19207630.5	(72) MARNFELDT, Goran, N.	A61N 5/067
(47) 11.01.2023	(31) 201662425848 P	(11) EP3335762
(22) 07.11.2019	(32) 23.11.2016	(21) EP18150913.4
(54) A DEVICE FOR THE CARE OF	(33) United States of America	(47) 11.01.2023
RESPIRATORY WELLBEING AND FOR	(51) A61N 1/372	(22) 30.04.2014
TRAINING AND THE IMPROVEMENT	G16H 40/00	(54) PROGRAM AND SYSTEM
OF RESPIRATORY FUNCTION	(11) EP3405256	FOR CONTROLLING LASER
(73) WellO2 Oy	(21) EP17702732.3	THERMOTHERAPY
(72) KURONEN, Ilpo	(47) 11.01.2023	(73) Clinical Laserthermia Systems AB
NAGHIAN, Siamäk	(87) US2017014247	(72) TRANBERG, Karl-Göran
(31) 20185974	27.07.2017	DYMLING, Stephan
(32) 19.11.2018	(22) 20.01.2017	(31) 201361817743 P
(33) Finland	(54) APPARATUS FACILITATING DATA	13165962
(51) A61M 21/00	BUFFERING AND REMOVAL	(32) 30.04.2013
(11) EP3713631	(73) Medtronic Inc.	30.04.2013
(21) EP18800898.1	(72) ZHANG, Bo	(33) United States of America
(47) 11.01.2023	WINE, Nicholas C.	European Patent Office (EPO)
(87) EP2018080537	KIVI, Gary P.	(51) A61N 5/10
23.05.2019	(31) 201615004560	(11) EP3589365
(22) 08.11.2018	(32) 22.01.2016	(21) EP18710719.8
(54) SYSTEM FOR DELIVERING SENSORY	(33) United States of America	(47) 11.01.2023
STIMULATION TO A USER TO	(51) A61N 1/375	(87) US2018020290
ENHANCE A COGNITIVE DOMAIN IN	H01R 13/52	07.09.2018
THE USER	(11) EP3958964	(22) 28.02.2018
(73) Koninklijke Philips N.V.	(21) EP20722924.6	(54) BEAM PROFILE MEASUREMENT
(72) GARCIA MOLINA, Gary, Nelson	(47) 11.01.2023	SYSTEM
WHITE, David	(87) US2020027628	(73) Accuray Incorporated
SACHDEV, Birpal, Singh		(72) MCCOY, Jonathan

MITSUISHI, Atsushi KOGA, Hidetaka KOBAYASHI, Kazuyuki OGAWA, Shigemi OTANI, Tadashi (31) 201715446170 (32) 01.03.2017 (33) United States of America	(22) 28.05.2018 (54) SOLID FORM OF AZETIDINE DERIVATIVE AND PREPARATION METHOD THEREFOR AND USE THEREOF (73) Sichuan Kelun-Biotech Biopharmaceutical Co., Ltd. (72) GE, Jianhua HAN, Zengying CHEN, Fengchun JIAO, Shihu ZHANG, Hong ZHANG, Ping WANG, Lichun WANG, Jingyi (31) 201710421771 (32) 07.06.2017 (33) China	(54) ADAPTABLE SUPPRESSION TANK LEVEL SENSOR (73) Carrier Corporation (72) PIECH, Marcin WITCZAK, Tadeusz Pawel WAWRZYNIAK, Beata I. MAJCHRZAK, Lukasz MILCAREK, Dawid JEDRYCZKA, Cezary (31) 201862773286 P (32) 30.11.2018 (33) United States of America
(51) A61N 5/10 A61B 6/04 A61B 5/055 (11) EP3388110 (21) EP18166728.8 (47) 11.01.2023 (22) 11.04.2018 (54) COIL ARRANGEMENT (73) Elekta Ltd. (72) CARLSSON, Per ELDERED, Kjell ALEXIS, Henrik (31) 201715484505 (32) 11.04.2017 (33) United States of America	(51) A61Q 19/08 A61Q 19/00 A61K 8/49 A61K 8/35 (11) EP3398656 (21) EP18175129.8 (47) 11.01.2023 (22) 15.06.2012 (54) COMPOSITIONS COMPRISING HYALURONAN BIOSYNTHESIS PROMOTING AGENTS (73) Symrise AG (72) HERRMANN, Martina SCHMAUS, Gerhard	(51) A62C 35/68 A62C 37/50 A62C 3/00 A62C 35/62 G01M 3/04 G01N 17/00 G01N 17/04 (11) EP3743170 (21) EP19703620.5 (47) 11.01.2023 (87) US2019014549 01.08.2019 (22) 22.01.2019 (54) SYSTEMS AND METHODS OF MONITORING TEMPERATURE IN A FIRE SUPPRESSION SYSTEM (73) Tyco Fire Products LP (72) GOYETTE, Chad, A. COGSWELL, Jeremy, Tyler (31) 201862620684 P (32) 23.01.2018 (33) United States of America
(51) A61P 7/10 A61P 9/00 A61P 9/02 A61P 9/12 A61P 39/00 A61P 43/00 A61K 31/497 C07D 401/14 A61P 7/00 (11) EP3851106 (21) EP19867766.8 (47) 11.01.2023 (87) CN2019090110 02.04.2020 (22) 05.06.2019 (54) PROSTACYCLIN RECEPTOR AGONIST FOR USE IN TREATING OR PREVENTING ALTITUDE SICKNESS (73) Chinese PLA General Hospital Shijiazhuang Sagacity New Drug Development Company, Ltd. (72) HE, Kunlun ZHANG, Zeyu GAO, Xiaojian LIU, Chunlei LI, Xin LI, Chen QIAN, Wenyuan YANG, Chundao XU, Guanghai WANG, Yiwei (31) 201811113332 (32) 25.09.2018 (33) China	(51) A62B 7/14 A62B 9/02 (11) EP3791933 (21) EP19306109.0 (47) 11.01.2023 (22) 13.09.2019 (54) SYSTEM FOR DELIVERING BREATHING GAS TO PASSENGERS (73) Safran Aerotechnics (72) GILLOTIN, Vincent Jean Pierre Marie DELPRAT, Jean-Baptiste Philippe GRETER, Vincent Gérard WALKER, Stuart David Dixon	(51) A63C 9/00 A63C 9/081 (11) EP3482803 (21) EP18204990.8 (47) 11.01.2023 (22) 07.11.2018 (54) INTERFACE DEVICE FOR SKI BINDING (73) Vist Tech S.r.l. (72) Gorza, Roberto Zambelli, Roberto (31) 201700129315 (32) 13.11.2017 (33) Italy
(51) A61P 29/00 A61P 37/00 A61P 19/02 A61P 35/00 A61K 31/437 C07D 471/04 (11) EP3636647 (21) EP18814274.9 (47) 11.01.2023 (87) CN2018088645 13.12.2018	(51) A62B 7/14 B64D 13/00 (11) EP3111996 (21) EP15174644.3 (47) 11.01.2023 (22) 30.06.2015 (54) OXYGEN SUPPLY SYSTEM AND METHOD FOR PROVIDING AN ADEQUATE OXYGEN SUPPLY MODE IN AN AIRCRAFT (73) Airbus Operations GmbH (72) Bricard, Patrick Martin, Timo	(51) A63F 13/22 G05G 9/047 G06F 3/0338 G06F 3/038 (11) EP3684483 (21) EP18796315.2 (47) 11.01.2023 (87) US2018055762 02.05.2019 (22) 13.10.2018 (54) CALIBRATION BIAS FOR CONTROL MECHANISMS IN USER INPUT DEVICES (73) Microsoft Technology Licensing, LLC (72) NELSON, Ross Anthony SCHMITZ, Aaron MCCLIVE, Curtis F. (31) 201715793614 (32) 25.10.2017 (33) United States of America
(51) A61P 29/00 A61P 37/00 A61P 19/02 A61P 35/00 A61K 31/437 C07D 471/04 (11) EP3636647 (21) EP18814274.9 (47) 11.01.2023 (87) CN2018088645 13.12.2018	(51) A62C 13/62 A62C 37/50 G01F 23/72 (11) EP3887778 (21) EP19782830.4 (47) 11.01.2023 (87) US2019052043 04.06.2020 (22) 20.09.2019	(51) A63F 13/57

A63F 13/21	(21) EP19708831.3	08.10.2020
(11) EP3412349	(47) 11.01.2023	(22) 27.03.2020
(21) EP17746921.0	(87) EP2019055088	(54) DYNAMIC MIXER, DISPENSING
(47) 11.01.2023	06.09.2019	ASSEMBLY AND METHOD OF
(87) CN2017072541	(22) 01.03.2019	DISPENSING MULTI-COMPONENT
10.08.2017	(54) COALESCENCE SEPARATOR,	MATERIAL FROM A CARTRIDGE
(22) 25.01.2017	IN PARTICULAR FOR USE IN A	(73) medmix Switzerland AG
(54) METHOD FOR DETERMINING A	COMPRESSED AIR COMPRESSOR	(72) SCHENK, Lorenz
MOVEMENT TRACE, AND USER	SYSTEM, COMPRESSED AIR	JAFARI, Samira
EQUIPMENT	COMPRESSOR SYSTEM, AND USE OF	MOSER, Josef
(73) Tencent Technology (Shenzhen)	A COALESCENCE SEPARATOR	(31) 19166086
Company Limited	(73) MANN+HUMMEL GmbH	(32) 29.03.2019
(72) YANG, Fan	(72) GREIN, Thomas	(33) European Patent Office (EPO)
(31) 201610071125	DWORATZEK, Klemens	
(32) 01.02.2016	ZÜRKER, Markus	(51) B01J 13/00
(33) China	(31) 102018001601	C09K 5/02
(51) B01D 9/00	(32) 01.03.2018	A24B 15/16
C01G 53/00	(33) Germany	A24B 15/167
(11) EP3218078	(51) B01D 53/04	(11) EP3943186
(21) EP15822988.0	B01D 53/26	(21) EP20880333.8
(47) 11.01.2023	B60T 17/00	(47) 11.01.2023
(87) IB2015002221	(11) EP3242736	(87) CN2020094429
19.05.2016	(21) EP15805609.3	09.12.2021
(22) 10.11.2015	(47) 11.01.2023	(22) 04.06.2020
(54) PROCESS FOR THE PREPARATION	(87) GB2015053535	(54) APPLICATIONS OF ATOMIZING LIQUID
OF PARTICLES	14.07.2016	GEL HAVING REVERSIBLE PHASE
(73) BASF SE	(22) 19.11.2015	TRANSITION CHARACTERISTICS
(72) SCHROEDLE, Simon	(54) DUAL FILTER FOR MOISTURE	(73) CHINA TOBACCO YUNNAN
MUELLER, Patric	REMOVAL FROM A FLUID FLOW	INDUSTRIAL CO., LTD
(31) 201462079283 P	(73) Norgren Limited	(72) HAN, Yi
(32) 13.11.2014	(72) DAVIES, Hywel Ward	ZHAO, Wei
(33) United States of America	MANNING, Gary Kenneth	GONG, Xiaowei
(51) B01D 17/02	(31) 201500189	ZHU, Donglai
B01D 17/00	(32) 07.01.2015	LI, Tinghua
B01D 17/12	(33) United Kingdom	LI, Shoubo
B01D 21/00	(51) B01F 23/70	ZHANG, Xia
C02F 9/00	B01F 31/55	HONG, Liu
C02F 1/36	B01F 31/00	WU, Jun
C02F 1/40	B01F 33/501	CHEN, Yongkuan
C02F 1/44	B01F 35/21	LV, Xi
(11) EP3914372	B01F 35/32	LIAO, Siyao
(21) EP20718841.8	B01F 35/71	(51) B01J 23/22
(47) 11.01.2023	B01F 35/75	B01J 23/30
(87) NO2020050009	B01F 35/92	B01J 23/847
30.07.2020	(11) EP3897944	B01J 29/04
(22) 22.01.2020	(21) EP19824344.6	B01D 53/94
(54) A WATER-OIL-SLUDGE SEPARATION	(47) 11.01.2023	B01J 29/06
PLANT	(87) EP2019086590	B01J 37/00
(73) RENA QUALITY GROUP AS	25.06.2020	B01J 35/04
(72) SAMUELSEN, Ørjan Weider	(22) 20.12.2019	(11) EP3096874
(31) 20190082	(54) MANUFACTURING APPARATUS	(21) EP15701576.9
(32) 22.01.2019	AND MIXING MACHINE	(47) 11.01.2023
(33) Norway	FOR MANUFACTURING A	(87) GB2015050149
(51) B01D 35/30	COMPOSITION FROM A MIXTURE OF	30.07.2015
(11) EP3528919	FORMULATIONS	(22) 23.01.2015
(21) EP16919047.7	(73) SEB S.A.	(54) SCR CATALYTIC CONVERTER
(47) 11.01.2023	(72) POLLET, Cédric	(73) Johnson Matthey Public Limited
(87) US2016058062	MAISONNEUVE, Martial	Company
26.04.2018	(31) 1873979	(72) BAUER, Juergen
(22) 21.10.2016	(32) 21.12.2018	DOTZEL, Ralf
(54) BOWL FOR FILTER ASSEMBLIES	(33) France	JODLAUK, Joerg Walter
(73) Cummins Filtration IP, Inc.	(51) B01F 27/272	LEPPELT, Rainer
(72) MALGORN, Gérard	B01F 35/52	MUENCH, Joerg Werner
(51) B01D 46/00	B01F 101/00	(31) 102014201263
B01D 46/52	(11) EP3921071	(32) 23.01.2014
B01D 46/24	(21) EP20713897.5	(33) Germany
B01D 46/58	(47) 11.01.2023	(51) B01J 23/755
(11) EP3758827	(87) EP2020058644	B01J 37/08
		C01B 32/162

B01J 37/02	(47) 11.01.2023	(54) FLOTATION ARRANGEMENT
B01J 23/887	(87) EP2019082826	(73) Metso Outotec Finland Oy
B01J 35/00	18.06.2020	(72) RINNE, Antti
B01J 35/02	(22) 28.11.2019	BOURKE, Peter
B01J 35/10	(54) PROCESS FOR CONDITIONING OF	(31) PCT/FI2017/050094
C23C 16/26	ION EXCHANGE RESINS AND DEVICE	(32) 15.02.2017
(11) EP2883609	THEREFORE	(33) World Intellectual Property Office (WIPO)
(21) EP14822505.5	(73) Framatome GmbH	(51) B05B 1/08
(47) 11.01.2023	(72) SEYBERT, Gert	B05B 12/06
(87) KR2014006230	LEHR, Robert	F15C 1/22
15.01.2015	ZEILER, Bertram	F15B 1/12
(22) 10.07.2014	SCHUBERTH, Philip	(11) EP3755464
(54) SUPPORTED CATALYST, CARBON	WEISS, Steffen	(21) EP19709250.5
NANOTUBE ASSEMBLY, AND	(31) 102018131902	(47) 11.01.2023
PREPARATION METHOD THEREFOR	(32) 12.12.2018	(87) US2019018673
(73) LG Chem, Ltd.	(33) Germany	29.08.2019
(72) KANG, KyungYeon	(51) B01L 1/00	(22) 20.02.2019
LEE, Dongchul	(11) EP3584009	(54) SPLIT BODY FLUIDIC SPRAY NOZZLE
KIM, SungJin	(21) EP19173605.7	(73) Spraying Systems Co.
YOON, JaeKeun	(47) 11.01.2023	(72) COPLIN, Thomas L.
LEE, Seungyong	(22) 09.05.2019	(31) 201862632673 P
CHA, Jinmyung	(54) SAFETY CABINET	(32) 20.02.2018
(31) 20130080813	(73) Düperthal Sicherheitstechnik GmbH &	(33) United States of America
(32) 10.07.2013	Co.KG	(51) B05B 1/30
(33) Korea (Republic)	(72) Backhaus, Frank	B05B 7/06
(51) B01J 27/199	(31) 202018103446 U	B05B 7/08
B01J 23/28	(32) 19.06.2018	B05B 7/12
B01D 53/94	(33) Germany	B05B 7/24
(11) EP3721994	(51) B02C 4/30	(11) EP3055072
(21) EP20165248.4	B02C 4/28	(21) EP14782047.6
(47) 11.01.2023	B02C 4/40	(47) 11.01.2023
(22) 23.08.2013	(11) EP3621742	(87) US2014057649
(54) CATALYST SUPPORT COMPRISING	(21) EP18716235.9	16.04.2015
TITANIA, MOLYBDENA, PHOSPHORUS	(47) 11.01.2023	(22) 26.09.2014
AND SILICA	(87) EP2018058700	(54) NOZZLE ASSEMBLIES, SYSTEMS AND
(73) Tronox LLC	15.11.2018	RELATED METHODS
(72) AUGUSTINE, Steve, M.	(22) 05.04.2018	(73) 3M Innovative Properties Company
CHAPMAN, David, M.	(54) ROLLER MILL AND METHOD FOR	(72) GULLICKS, Scott D.
CLARK, Dennis, F.	OPERATING A ROLLER MILL	JOSEPH, Stephen C.P.
(31) 201261695541 P	(73) FLSmidth A/S	(31) 201361889583 P
201261693245 P	(72) SCHROERS, Frank	(32) 11.10.2013
(32) 31.08.2012	(31) 102017208014	(33) United States of America
24.08.2012	(32) 11.05.2017	(51) B05B 3/04
(33) United States of America	(33) Germany	B05B 15/652
United States of America	(51) B02C 13/09	B05B 3/02
(51) B01J 31/22	B02C 1/02	(11) EP3930912
B01J 31/24	(11) EP3919177	(21) EP19818040.8
(11) EP3812040	(21) EP21175045.0	(47) 11.01.2023
(21) EP20214647.8	(47) 11.01.2023	(87) EP2019084281
(47) 11.01.2023	(22) 20.05.2021	03.09.2020
(22) 20.03.2015	(54) CRUSHER	(22) 09.12.2019
(54) COMPLEXES	(73) KLEEMANN GMBH	(54) SPRINKLER DEVICE
(73) Johnson Matthey Public Limited	(72) MEYER, Gerd	(73) HUSQVARNA AB
Company	TEICHERT, Rainer	(72) KAUPP, Rainer
(72) JON DEANGELIS, Andrew	MEIER, Jochen	SCHLEGEL, Tobias
COLACOT, Thomas	(31) 102020114106	(31) 102019001316
(31) 201462011184 P	(32) 26.05.2020	(32) 25.02.2019
(32) 12.06.2014	(33) Germany	(33) Germany
(33) United States of America	(51) B03D 1/14	(51) B05B 9/08
(51) B01J 45/00	C22B 1/00	(11) EP3194082
B01J 49/30	B03D 1/24	(21) EP15830562.3
B01J 49/50	B03D 1/08	(47) 11.01.2023
G21F 9/12	(11) EP3582898	(87) IB2015001315
G21F 9/06	(21) EP18753731.1	11.02.2016
G21F 9/30	(47) 11.01.2023	(22) 03.08.2015
G21F 9/28	(87) FI2018050107	(54) SYSTEM TO PREVENT LEAKS OF
(11) EP3895184	23.08.2018	LIQUIDS IN MANUAL SPRAYERS
(21) EP19816559.9	(22) 14.02.2018	(73) Wirz Holdings, LLC

(72) LUCHSINGER, Pedro Wirz	(51) B07B 1/24	BERTOLISSIO, Arrigo
(31) MX14000383 U	B07B 13/00	(31) 201700072859
(32) 04.08.2014	(11) EP3533525	(32) 29.06.2017
(33) Mexico	(21) EP19159739.2	(33) Italy
(51) B05B 11/00	(47) 11.01.2023	(51) B09B 3/00
(11) EP3710172	(22) 27.02.2019	B01J 8/04
(21) EP18803965.5	(54) WASTE SEPARATION DEVICE	C10J 3/00
(47) 11.01.2023	(73) Senro B.V.	(11) EP3416757
(87) EP2018081352	(72) Hoekstra, Johannes Eelke	(21) EP16890816.8
23.05.2019	(31) 2021040	(47) 11.01.2023
(22) 15.11.2018	2020506	(87) US2016018117
(54) PUMP DISPENSERS	(32) 01.06.2018	24.08.2017
(73) Rieke Packaging Systems Limited	28.02.2018	(22) 16.02.2016
(72) KNIGHT, Simon Christopher	(33) Netherlands	(54) TWO-STAGE ENERGY-INTEGRATED
MITTAL, Gaurang	Netherlands	PRODUCT GAS GENERATION
(31) 201741040728	(51) B07C 1/04	SYSTEM AND METHOD
(32) 15.11.2017	(11) EP3789127	(73) ThermoChem Recovery International,
(33) India	(21) EP20194233.1	Inc.
(51) B05B 11/00	(47) 11.01.2023	(72) CHANDRAN, Ravi
(11) EP3900842	(22) 03.09.2020	BURCIAGA, Daniel A.
(21) EP21169100.1	(54) DEVICE FOR COLLECTING	LEO, Daniel Michael
(47) 11.01.2023	PACKAGES	FREITAS, Shawn Robert
(22) 19.04.2021	(73) Deutsche Post AG	NEWPORT, Dave G.
(54) A FLUID SUBSTANCE DISPENSING	(72) Hartmann, Bernd	MILLER, Justin Kevin
DEVICE	(31) 102019123805	HARRINGTON, Kaitlin Emily
(73) Coster Tecnologie Speciali S.p.A.	(32) 05.09.2019	ATTWOOD, Brian Christopher
(72) Fontanari, Giancarlo	(33) Germany	(51) B21B 13/14
(31) 202000008452	(51) B08B 3/04	B21B 45/02
(32) 21.04.2020	B08B 9/30	(11) EP3323519
(33) Italy	(11) EP2848325	(21) EP17202005.9
(51) B05B 11/00	(21) EP14184594.1	(47) 11.01.2023
B65D 83/20	(47) 11.01.2023	(22) 16.11.2017
(11) EP3612318	(22) 12.09.2014	(54) METHOD FOR HYDROSTATICALLY
(21) EP18723152.7	(54) Heat insulated apparatus for washing	SUPPORTING WORKING ROLLERS
(47) 11.01.2023	beverage crates	FOR USE IN COLD ROLLING OF HIGH
(87) US2018028230	(73) Ludwig Bohrer Maschinenbau GmbH	STRENGTH AND/OR THIN STRIPS
25.10.2018	(72) Bohrer, Georg	(73) SMS group GmbH
(22) 19.04.2018	(31) 102013110077	(72) Pawelski, Hartmut
(54) ERGONOMIC SPRAY ACTUATOR	(32) 12.09.2013	Alken, Johannes
AND A METHOD OF DISPENSING	(33) Germany	Schellmann, Markus
A COMPOSITION USING A SPRAY	(51) B08B 9/08	Sudau, Peter
ACTUATOR	B08B 9/30	(31) 102016122498
(73) The Procter & Gamble Company	B08B 9/32	(32) 22.11.2016
(72) BAUER, Matthew, Stephen	B08B 3/02	(33) Germany
GIRARD, Linda, Magenis	(11) EP3984659	(51) B21B 38/08
HEILMAN, Laura, Lynn	(21) EP21020512.6	B21B 37/66
MORLEY, James, Alexander	(47) 11.01.2023	B21B 38/00
(31) 201762487047 P	(22) 13.10.2021	(11) EP3812058
(32) 19.04.2017	(54) CLEANING DEVICE	(21) EP19863985.8
(33) United States of America	(73) PB Entwicklungs- und Vertriebs GmbH	(47) 11.01.2023
(51) B07B 1/00	(72) Peböck, Helmut	(87) JP2019033734
(11) EP3917689	(31) 2352020	04.03.2021
(21) EP20704777.0	(32) 16.10.2020	(22) 28.08.2019
(47) 11.01.2023	(33) Austria	(54) ROLL STATUS MONITORING DEVICE
(87) EP2020025033	(51) B08B 15/00	(73) Toshiba Mitsubishi-Electric Industrial
06.08.2020	B22D 45/00	Systems Corporation
(22) 28.01.2020	C21C 5/38	(72) IMANARI, Hiroyuki
(54) SCREENING MACHINE HAVING	F27D 17/00	YAMASAKI, Yukihiko
SCREENING ELEMENTS ARRANGED	(11) EP3645181	(51) B21C 35/02
IN SUCCESSION	(21) EP18749163.4	B08B 9/08
(73) Spaleck GmbH & Co.	(47) 11.01.2023	B21C 35/03
Kommanditgesellschaft	(87) IT2018050114	B21C 43/00
(72) HALLADIN, Jörg	03.01.2019	B21D 3/00
SCHMEINK, Simon	(22) 25.06.2018	(11) EP4034317
(31) 102019102428	(54) MELTING APPARATUS FOR THE	(21) EP21798594.4
(32) 31.01.2019	PRODUCTION OF STEEL	(47) 11.01.2023
(33) Germany	(73) Danieli & C. Officine Meccaniche S.p.A.	(87) EP2021078836
	(72) BEVILACQUA, Massimo	16.06.2022

(22) 18.10.2021	(47) 11.01.2023	(47) 11.01.2023
(54) METHOD AND DEVICE FOR REMOVING THE LUBRICATING GLASS LAYER FROM EXTRUDED METAL TUBES	(22) 18.05.2021	(87) GB2018052549 14.03.2019
(73) Reika GmbH & Co. KG	(54) TANDEM PRESS LINE AND INTERMEDIATE FEEDING DEVICE	(22) 07.09.2018
(72) BRAUN, Hans-Jörg	(73) Aida Engineering, Ltd.	(54) METHOD FOR FORMING METAL MATRIX COMPOSITES
(31) 102020133024	(72) ENDO, Kenichi	(73) Brunel University London
(32) 10.12.2020	(31) 2020089244	(72) ANGIILANO, Lorna
(33) Germany	(32) 21.05.2020	MINTON, Timothy
(51) B21D 7/024	(33) Japan	MCKAY, Brian
(11) EP3177414	(51) B21F 5/00	BAREKAR, Nilam
(21) EP15766733.8	B24B 23/04	ADOLE, Onuh
(47) 11.01.2023	B24B 47/14	(31) 201714401
(87) CZ2015000085	B24B 47/16	(32) 07.09.2017
11.02.2016	B24B 47/12	(33) United Kingdom
(22) 04.08.2015	F15B 15/12	(51) B22F 1/00
(54) BENDING HEAD, ESPECIALLY FOR AN AUTOMATIC BENDING MACHINE	B23D 47/12	B22F 3/22
(73) MSV SYSTEMS CZ s.r.o.	B23Q 5/027	(11) EP3416769
(72) VONDRACEK, Karel	B26D 5/12	(21) EP16813097.9
(31) 201429853 U	(11) EP3077135	(47) 11.01.2023
(32) 06.08.2014	(21) EP14796511.5	(87) FR2016053156 17.08.2017
(33) Czech Republic	(47) 11.01.2023	(22) 30.11.2016
(51) B21D 22/02	(87) EP2014074366 21.05.2015	(54) PROCESS FOR MANUFACTURING A TITANIUM NIOBIUM ZIRCONIUM (TNZ) BETA-ALLOY WITH A VERY LOW MODULUS OF ELASTICITY FOR BIOMEDICAL APPLICATIONS AND METHOD FOR PRODUCING SAME BY ADDITIVE MANUFACTURING
B21D 37/16	(22) 12.11.2014	(73) Djemai, Abdelmadjid
(11) EP3154723	(54) OSCILLATORILY DRIVEN MACHINE TOOL	(72) FOUCHET, Jean-Jacques DJEMAI, Abdelmadjid
(21) EP15728556.0	(73) C. & E. Fein GmbH	(31) 1600205
(47) 11.01.2023	(72) NOACK, Steffen	(32) 08.02.2016
(87) EP2015063372	VOIGT, Tobias	(33) France
23.12.2015	(31) 102014102131	(51) B22F 3/105
(22) 15.06.2015	102013112455	B29C 64/153
(54) HOT FORMING DIE QUENCHING	(32) 19.02.2014	B29C 64/393
(73) AUTOTECH ENGINEERING S.L.	13.11.2013	B29C 64/277
(72) LÓPEZ LAGE, Manuel	(33) Germany	B29C 64/264
(31) 14382233	Germany	(11) EP3659726
(32) 16.06.2014	(51) B22C 9/10	(21) EP18208436.8
(33) European Patent Office (EPO)	(11) EP3395471	(47) 11.01.2023
(51) B21D 22/26	(21) EP18168395.4	(22) 20.04.2018
B21D 53/88	(47) 11.01.2023	(54) CORE FOR THE FABRICATION OF A TURBINE ENGINE BLADE
B21D 22/30	(22) 20.04.2018	(73) SAFRAN AIRCRAFT ENGINES
B21D 35/00	(54) CORE FOR THE FABRICATION OF A TURBINE ENGINE BLADE	(72) QUACH, Daniel
(11) EP2711104	(73) SAFRAN AIRCRAFT ENGINES	GOMEZ, Pascal, Francis, Patrick
(21) EP12789906.0	(72) QUACH, Daniel	GUERARD, Coralie, Cinthia
(47) 11.01.2023	GOMEZ, Pascal, Francis, Patrick	HANNY, Jean-Claude, Marcel, Auguste
(87) JP2012062522	GUERARD, Coralie, Cinthia	HUCHIN, Patrick, Emilien, Paul, Emile
29.11.2012	HANNY, Jean-Claude, Marcel, Auguste	TAMI LIZUZU, Joseph, Toussaint
(22) 16.05.2012	HUCHIN, Patrick, Emilien, Paul, Emile	VOLLEBREGT, Matthieu, Jean, Luc
(54) PRESS FORMING METHOD	TAMI LIZUZU, Joseph, Toussaint	HERB, Vincent, Marc
(73) Nippon Steel Corporation	VOLLEBREGT, Matthieu, Jean, Luc	PERSON, Laetitia
(72) YONEMURA, Shigeru	HERB, Vincent, Marc	(31) 1753817
UENISHI, Akihiro	PERSON, Laetitia	(32) 28.04.2017
TOYOKAWA, Shin	(31) 1753817	(33) France
KUWAYAMA, Takuya	(32) 28.04.2017	(51) B22D 19/14
ARIGA, Takashi	(33) France	B22D 21/00
(31) 2011113630	(51) B22D 19/14	B22D 21/04
2011113629	B22D 21/00	C22C 47/08
(32) 20.05.2011	B22D 21/04	C22C 49/06
20.05.2011	C22C 47/08	B01F 27/806
(33) Japan	C22C 49/06	B01F 31/85
Japan	B01F 27/806	B01F 33/71
(51) B21D 28/04	B01F 31/85	B01F 35/21
B21D 28/10	B01F 33/71	C22C 47/02
B21D 43/09	B01F 35/21	C22C 49/14
B21D 28/22	C22C 47/02	(11) EP3678802
B21D 43/05	C22C 49/14	(21) EP18786011.9
(11) EP3912746	(11) EP3678802	
(21) EP21174487.5	(21) EP18786011.9	

MOLYBDENUM-SEGREGATED ARTICLE	B23Q 1/70	(87) EP2020078354
(73) Raytheon Technologies Corporation	B23F 23/12	22.04.2021
(72) BALES, Daniel A.	(11) EP3533542	(22) 09.10.2020
ASARE, Ted A.	(21) EP17864527.1	(54) METHOD FOR GRINDING THE TOOTHING OR THE PROFILE OF A WORKPIECE
HAYNES, Andrew L.	(47) 11.01.2023	(73) Kapp Niles GmbH & Co. KG
(31) 201916590660	(87) JP2017038694	(72) DR. GRINKO, Sergiy
201862747844 P	03.05.2018	(31) 102019128100
(32) 02.10.2019	(22) 26.10.2017	(32) 17.10.2019
19.10.2018	(54) MAIN SPINDLE UNIT AND MACHINE TOOL	(33) Germany
(33) United States of America	(73) Nidec Machine Tool Corporation	(51) B23F 23/12
United States of America	(72) MASUO, Koichi	B23F 1/02
(51) B22F 10/28	(31) 2016209238	B23F 5/02
B22F 10/362	(32) 26.10.2016	(11) EP4041483
B22F 12/44	(33) Japan	(21) EP20786526.2
B22F 12/90	(51) B23B 31/20	(47) 11.01.2023
B29C 64/153	(11) EP3263251	(87) EP2020077873
B29C 64/264	(21) EP17171387.8	15.04.2021
B29C 64/393	(47) 11.01.2023	(22) 05.10.2020
B33Y 10/00	(22) 16.05.2017	(54) METHOD FOR GRINDING THE TOOTHING OF A GEAR
B33Y 30/00	(54) COLLET, CLAMPING NUT, AND COLLET CHUCK HAVING SPECIAL INTERACTION BETWEEN THE COLLET AND THE CLAMPING NUT	(73) Kapp Niles GmbH & Co. KG
B33Y 50/02	(73) Haimer GmbH	(72) GRINKO, Sergiy
B23K 15/00	(72) Haimer, Franz	(31) 102019127520
B22F 12/49	Kirmayer, Lothar	(32) 12.10.2019
B22F 12/55	(31) 102016110087	(33) Germany
(11) EP3693164	(32) 01.06.2016	(51) B23G 3/04
(21) EP18864767.1	(33) Germany	B23G 7/00
(47) 11.01.2023	(51) B23D 45/06	(11) EP3071358
(87) JP2018037231	B23D 59/00	(21) EP14799812.4
11.04.2019	B27B 5/22	(47) 11.01.2023
(22) 04.10.2018	B27B 27/02	(87) EP2014075094
(54) THREE-DIMENSIONAL SHAPING DEVICE AND THREE-DIMENSIONAL SHAPING METHOD	B27B 27/10	28.05.2015
(73) IHI Corporation	(11) EP3957423	(22) 20.11.2014
(72) SHIONUMA, Kenta	(21) EP21182394.3	(54) METHOD OF PRODUCING A ROTATIONALLY ORIENTED THREAD
(31) 2017195817	(47) 11.01.2023	(73) Jaguar Land Rover Limited
(32) 06.10.2017	(22) 29.06.2021	(72) ONLEY, Ben
(33) Japan	(54) SECURITY ARCHITECTURE FOR WOODWORKING MACHINES	YEOMAN, Stephen
(51) B22F 10/28	(73) Otto Martin Maschinenbau GmbH & Co. KG	(31) 201320640
B22F 10/37	(72) Balom, Josef	(32) 22.11.2013
B22F 10/85	(31) 202020104817 U	(33) United Kingdom
B22F 12/60	(32) 19.08.2020	(51) B23H 7/06
B22F 12/67	(33) Germany	B23H 7/20
B22F 12/90	(51) B23D 61/04	(11) EP3482860
B29C 64/153	(11) EP3305450	(21) EP18205456.9
B29C 64/393	(21) EP16839005.2	(47) 11.01.2023
B33Y 10/00	(47) 11.01.2023	(22) 09.11.2018
B33Y 30/00	(87) JP2016072177	(54) CONTROLLER FOR WIRE ELECTRICAL DISCHARGE MACHINE AND CONTROL METHOD FOR A WIRE ELECTRICAL DISCHARGE MACHINE
B33Y 50/02	02.03.2017	(73) FANUC CORPORATION
(11) EP3769866	(22) 28.07.2016	(72) NISHIKAWA, Ryou
(21) EP20186476.6	(54) CIRCULAR SAW BLADE WITH TIPS	(31) 2017219104
(47) 11.01.2023	(73) Kanefusa Kabushiki Kaisha	(32) 14.11.2017
(22) 17.07.2020	(72) NAKAJIMA, Yasutaka	(33) Japan
(54) SYSTEM AND METHOD FOR MONITORING A POWDER LAYER IN ADDITIVE MANUFACTURING PROCESSES	OKABE, Fuminori	(51) B23H 7/06
(73) ARCAM AB	(31) 2015165103	G05B 19/401
(72) LÖFVING, Björn	(32) 24.08.2015	G05B 19/404
KARLSSON, Kristofer	(33) Japan	(11) EP3369511
(31) 201916523484	(51) B23F 1/02	(21) EP18159176.9
(32) 26.07.2019	B23F 5/02	(47) 11.01.2023
(33) United States of America	B23F 23/12	(22) 28.02.2018
(51) B23B 19/02	G05B 19/18	(54) WIRE ELECTRICAL DISCHARGE MACHINE AND CONTROL METHOD
B23F 5/20	(11) EP4045217	
B23Q 5/04	(21) EP20789930.3	
H02K 5/04	(47) 11.01.2023	

FOR WIRE ELECTRICAL DISCHARGE MACHINE	B23K 26/38	(47) 11.01.2023
(73) FANUC CORPORATION	B23K 26/70	(22) 19.03.2018
(72) Hashimoto, Taiju	B23K 26/16	(54) CLAD ARTICLE AND METHOD FOR FORMING CLAD ARTICLE
(31) 2017040069	B23K 26/08	(73) General Electric Company
(32) 03.03.2017	B23K 37/00	(72) KOTTILINGAM, Srikanth Chandrudu
(33) Japan	B08B 15/00	TOLLISON, Brian Lee
(51) B23K 9/09	(11) EP3826799	CUI, Yan
B23K 9/10	(21) EP19755802.6	(31) 201715477846
B23K 9/173	(47) 11.01.2023	(32) 03.04.2017
(11) EP3774151	(87) EP2019000231	(33) United States of America
(21) EP18786529.0	30.01.2020	(51) B23K 37/00
(47) 11.01.2023	(22) 25.07.2019	B23Q 1/01
(87) US2018052384	(54) SUCTION DEVICE, LASER PROCESSING MACHINE, AND METHOD FOR SUCTIONING	B23Q 7/16
04.04.2019	(73) Bystronic Laser AG	B23Q 7/00
(22) 24.09.2018	(72) SEILER, Thomas	(11) EP3856449
(54) SYSTEMS, METHODS, AND APPARATUS TO PREHEAT WELDING WIRE	FLÜCKIGER, Christian	(21) EP20733904.5
(73) Illinois Tool Works Inc.	(31) 102018118077	(47) 11.01.2023
(72) ZWAYER, Jake	(32) 26.07.2018	(87) EP2020065587
UECKER, James Lee	(33) Germany	10.12.2020
SCHARTNER, Quinn William	(51) B23K 26/34	(22) 05.06.2020
(31) 201715720121	B23K 26/00	(54) SYSTEM AND METHOD FOR FAST REMOVAL OF CUT PARTS FROM A PROCESSING SYSTEM
(32) 29.09.2017	B23K 26/073	(73) Bystronic Laser AG
(33) United States of America	B23K 26/03	(72) JACOBI, Stefan Alfons
(51) B23K 9/23	B23K 26/08	(31) 102019115571
B23K 9/02	B23K 103/04	(32) 07.06.2019
B23K 35/30	(11) EP3785842	(33) Germany
C22C 38/00	(21) EP19791985.5	(51) B23P 6/00
C22C 38/06	(47) 11.01.2023	F01D 5/00
C22C 38/58	(87) JP2019016008	B23K 1/00
B23K 26/242	31.10.2019	B23P 6/04
(11) EP3590644	(22) 12.04.2019	B23K 1/19
(21) EP18761559.6	(54) LASER WELDING METHOD FOR REPAIR, AND LASER WELDING DEVICE FOR REPAIR	B23K 1/002
(47) 11.01.2023	(73) IHI CORPORATION	(11) EP3366415
(87) JP2018007638	(72) INOSE, Koutarou	(21) EP18155149.0
07.09.2018	MATSUMOTO, Naoyuki	(47) 11.01.2023
(22) 28.02.2018	OKITA, Daiki	(22) 05.02.2018
(54) FILLET WELDED JOINT AND METHOD OF MANUFACTURING THEREOF	(31) 2018087297	(54) METHOD OF BRAZING A TREATMENT AREA OF A LOAD-BEARING GAS TURBINE COMPONENT
(73) Nippon Steel Corporation	(32) 27.04.2018	(73) General Electric Company
(72) KODAMA, Shinji	(33) Japan	(72) HENDERSON, Brian Leslie
MATSUDA, Kazuki	(51) B23K 26/38	CUI, Yan
ISHIDA, Yoshinari	B23K 15/08	DORRIETY, Daniel James
(31) 2017036283	B23K 26/06	SHUBERT, Gary Charles
(32) 28.02.2017	B23K 26/04	COOK, Paul Albert
(33) Japan	(11) EP2440366	(31) 201715440492
(51) B23K 26/12	(21) EP10732628.2	(32) 23.02.2017
B23K 26/70	(47) 11.01.2023	(33) United States of America
B23K 26/14	(87) DE2010000607	(51) B23P 11/02
B23K 26/142	09.12.2010	H05B 6/14
B23K 26/36	(22) 29.05.2010	(11) EP3461583
(11) EP3427887	(54) METHOD AND DEVICE FOR PRODUCING A HOLE IN AN OBJECT	(21) EP18193220.3
(21) EP18182782.5	(73) MTU Aero Engines AG	(47) 11.01.2023
(47) 11.01.2023	(72) GEISEL, Mark	(22) 07.09.2018
(22) 10.07.2018	SCHUR, Stefan	(54) DEVICE FOR HOLDING AND HEATING ADAPTER FOR HOLDING TOOLS
(54) LASER PROCESSING DEVICE FOR PROCESSING A SURFACE OF A WORKPIECE BY MEANS OF A LASER BEAM	(31) 102009024117	(73) Haimer GmbH
(73) mobil-mark GmbH	(32) 06.06.2009	(72) Haimer, Josef
(72) Baeger, Dr., Holm Diesterhaupt, Frank	(33) Germany	Haimer, Franz
(31) 102017115361	(51) B23K 35/00	(31) 102017215837
(32) 10.07.2017	B23K 1/00	(32) 07.09.2017
(33) Germany	F01D 5/28	(33) Germany
(51) B23K 26/142	F01D 9/02	(51) B23P 19/02
	F01D 5/00	(11) EP3921114
	(11) EP3385019	(21) EP20706073.2
	(21) EP18162544.3	

(47) 11.01.2023	B23Q 3/12	G06T 7/00
(87) IT2020050018 13.08.2020	B27B 5/30	G06T 7/11
(22) 04.02.2020	(11) EP4039409	G06T 7/136
(54) EXTRACTOR OF TUBE BUNDLES FOR HEAT EXCHANGERS	(21) EP22153130.4	G01N 21/84
(73) Maus Italia S.P.A.	(47) 11.01.2023	C21D 7/06
(72) AGOSTINO, Stefano	(22) 25.07.2014	G01B 11/30
PERTOT, Ladislao	(54) TOOL DEVICE	(11) EP3610986
(31) 201900001825	(73) C. & E. Fein GmbH	(21) EP19185377.9
(32) 08.02.2019	Robert Bosch GmbH	(47) 11.01.2023
(33) Italy	(72) Klabunde, Olaf	(22) 10.07.2019
(51) B23Q 1/01	Blickle, Jürgen	(54) APPARATUS AND METHOD FOR SHOT PEENING EVALUATION
B23Q 11/00	Thomaschewski, Walter	(73) The Boeing Company
(11) EP3950215	Bek, Fabian	(72) Safai, Morteza
(21) EP21184938.5	Delfini, Stefano	(31) 201816104394
(47) 11.01.2023	Fellmann, Willi	(32) 17.08.2018
(22) 12.07.2021	Lüscher, Bruno	(33) United States of America
(54) MACHINE WITH A SAFETY SYSTEM	Bozic, Milan	(51) B25B 11/02
(73) SCM Group S.p.A.	Mathys, Thomas	B64F 5/10
(72) FERRI, Fabio	Grolimund, Daniel	(11) EP3466610
(31) 202000019618	(31) 202013006920 U	(21) EP18193812.7
(32) 07.08.2020	(32) 01.08.2013	(47) 11.01.2023
(33) Italy	(33) Germany	(22) 11.09.2018
(51) B23Q 1/52	(51) B24B 23/04	(54) AIRCRAFT ASSEMBLY LOCATING TOOL
B23Q 1/66	H02K 7/075	(73) Airbus Operations Limited
B23Q 3/06	B24B 47/16	(72) LIAQAT, Amer
B23Q 39/04	B24B 27/08	TOMLINSON, David
(11) EP3597359	B27B 19/00	VASS, Stuart
(21) EP19186523.7	B24B 47/00	HANNON, Christopher
(47) 11.01.2023	B25F 5/00	PARSONAGE, Harry
(22) 16.07.2019	B23D 51/16	(31) 201716189
(54) MULTI-SPINDLE NUMERICAL CONTROL MACHINE TOOL WITH AUTOMATIC ADJUSTMENT AND WITH A DEVICE FOR GRIPPING THIN PLATES TO BE MACHINED AND METHOD FOR MACHINING SAID THIN PLATES	H02K 7/00	(32) 04.10.2017
(73) Fagima S.p.A.	B24B 49/00	(33) United Kingdom
(72) Falchini, Massimo	(11) EP3473380	(51) B25B 23/00
Montani, Daniele	(21) EP18184356.6	(11) EP3858548
Maioreselli, Alessandro	(47) 11.01.2023	(21) EP20154977.1
(31) 201800007253	(22) 19.07.2018	(47) 11.01.2023
(32) 17.07.2018	(54) OSCILLATION DRIVE WITH ADJUSTABLE OSCILLATION ANGLE	(22) 31.01.2020
(33) Italy	(73) C. & E. Fein GmbH	(54) SCREW DEPTH ADJUSTER FOR DRIVING SCREW TO CERTAIN DEPTH
(51) B23Q 11/00	(72) Bek, Fabian	(73) Rote Mate Industry Co., Ltd.
(11) EP3576905	Thomaschewski, Walter	(72) LAI, YING TSUNG
(21) EP17828655.5	Wohlfrom, Christoph	(51) B25B 29/02
(47) 11.01.2023	(31) 102017124745	B23P 19/06
(87) EP2017079700	(32) 23.10.2017	F16B 31/04
09.08.2018	(33) Germany	F16D 1/033
(22) 20.11.2017	(51) B24B 49/03	G21C 13/06
(54) ACCESSORY DEVICE FOR A HAND- HELD POWER TOOL	B24B 49/05	(11) EP3471920
(73) Robert Bosch GmbH	B24B 51/00	(21) EP17814153.7
(72) ULLRICH, Andre	B23Q 7/14	(47) 11.01.2023
FISCHLE, Benjamin Nikolas	F16C 33/00	(87) US2017037834
DIETEL, Juergen	(11) EP3532243	21.12.2017
FROEHLING, Holger	(21) EP17783385.2	(22) 16.06.2017
ORENDI, Erwin	(47) 11.01.2023	(54) IMPROVEMENTS TO MULTI-JACK TENSIONERS
(31) 102017201558	(87) DE2017100773	(73) Superbolt, Inc.
(32) 31.01.2017	03.05.2018	(72) GREENWELL, Steven
(33) Germany	(22) 13.09.2017	MYERS, William
(51) B24B 23/04	(54) METHOD FOR PRODUCING BEARING COMPONENTS AND PRODUCTION SYSTEM AND ROLLER OR SLIDE BEARING	LUTTY, Adam Glenn
B27B 19/00	(73) Schaeffler Technologies AG & Co. KG	(31) 201662350787 P
B23D 61/00	(72) SCHNABEL, Wolfgang	(32) 16.06.2016
B24B 45/00	SCHREIBER, Martin	(33) United States of America
	JUNG, Oliver	(51) B25C 1/00
	(31) 102016221046	B25C 1/04
	(32) 26.10.2016	(11) EP3509797
	(33) Germany	(21) EP18726389.2
	(51) B24C 1/10	(47) 11.01.2023

(87) EP2018062459 10.01.2019	(11) EP3112091	13.02.2020
(22) 15.05.2018	(21) EP16176737.1	(22) 10.08.2018
(54) COMPRESSED AIR NAILER WITH AUTOMATIC OPERATING MODE AND A CONTACT SENSOR	(47) 11.01.2023	(54) METHOD FOR CONTROLLING MOVEMENT OF A ROBOT
(73) BeA GmbH	(22) 28.06.2016	(73) ABB Schweiz AG
(72) BAUER, Joachim	(54) SYSTEM FOR HANDLE ASSEMBLY FOR A HAND TOOL	(72) GROTH, Tomas
(31) 202017104073 U	(73) SECATEURS PRADINES	WAHRBURG, Arne
(32) 07.07.2017	(72) DEVILLE, Antoine	(51) B25J 9/16
(33) Germany	(31) 1556262	B25J 15/00
(51) B25D 9/12	(32) 02.07.2015	B25J 15/06
B25D 9/26	(33) France	(11) EP3766641
E21B 1/00	(51) B25H 1/06	(21) EP20181515.6
(11) EP3569362	(11) EP3970919	(47) 11.01.2023
(21) EP18739319.4	(21) EP21196754.2	(22) 22.06.2020
(47) 11.01.2023	(47) 11.01.2023	(54) ITEM HANDLING MANIPULATOR
(87) JP2018000703	(22) 15.09.2021	(73) Intelligated Headquarters LLC
19.07.2018	(54) TRESTLE	(72) JEREMIAH, Grant R.
(22) 12.01.2018	(73) CMC Sweden AB	(31) 201916456315
(54) HYDRAULIC HAMMERING DEVICE	(72) CHARLEZ, Rune	(32) 28.06.2019
(73) Furukawa Rock Drill Co., Ltd.	(31) 2051082	(33) United States of America
(72) KOIZUMI, Masahiro	(32) 17.09.2020	(51) B25J 13/08
(31) 2017003065	(33) Sweden	B25J 9/16
(32) 12.01.2017	(51) B25J 1/02	B25J 15/00
(33) Japan	B25J 9/16	B25J 15/10
(51) B25D 17/26	A61B 34/30	(11) EP3403774
B25D 16/00	A61B 90/60	(21) EP18172668.8
B23Q 11/00	A61B 90/00	(47) 11.01.2023
B23Q 17/20	A61B 17/00	(22) 16.05.2018
(11) EP3529006	A61B 34/20	(54) ROBOT HAND, ROBOT APPARATUS, AND CONTROL METHOD FOR ROBOT HAND
(21) EP17781134.6	(11) EP3509799	(73) CANON KABUSHIKI KAISHA
(47) 11.01.2023	(21) EP17771522.4	(72) ASANO, Hidetada
(87) EP2017076022	(47) 11.01.2023	SATO, Shuuichi
26.04.2018	(87) GB2017052679	(31) 2017098718
(22) 12.10.2017	15.03.2018	(32) 18.05.2017
(54) CONTROL METHOD AND BOREHOLE FLUSHING MODULE	(22) 12.09.2017	(33) Japan
(73) Hilti Aktiengesellschaft	(54) APPARATUS AND METHOD FOR ASSISTING TOOL USE	(51) B25J 19/06
(72) HARTMANN, Markus	(73) Signature Robot Limited	B25J 15/08
BOHN, Klaus-Peter	(72) DAVIES, Brian Lawrence	A61B 34/30
PLÜMACHER, Bastian	(31) 201615438	(11) EP3342544
BRUNNER, Michael	(32) 12.09.2016	(21) EP16838731.4
WESSELER GEB. KAPS, Helene	(33) United Kingdom	(47) 11.01.2023
PETERS, Carsten	(51) B25J 9/00	(87) JP2016003064
(31) 16194715	B25J 9/08	02.03.2017
(32) 20.10.2016	B25J 21/00	(22) 24.06.2016
(33) European Patent Office (EPO)	B65G 47/14	(54) ROBOT SYSTEM
(51) B25F 5/02	B25J 19/02	(73) Kawasaki Jukogyo Kabushiki Kaisha Medicaroid Corporation
B25F 5/00	(11) EP2952297	(72) TOJO, Tsuyoshi
(11) EP3383589	(21) EP15159025.4	(31) 2015165479
(21) EP16805354.4	(47) 11.01.2023	(32) 25.08.2015
(47) 11.01.2023	(22) 13.03.2015	(33) Japan
(87) EP2016078942	(54) SUPPLY MODULE AND DEVICE WITH SUCH A MODULE FOR THE AUTOMATED REMOVAL OF WORKPIECES ARRANGED IN A CONTAINER	(51) B26B 19/20
08.06.2017	(73) Liebherr-Verzahntechnik GmbH	B26B 19/44
(22) 28.11.2016	(72) Mattern, Thomas	B26B 19/38
(54) ELECTROTECHNICAL PRODUCT	Hänschke, David	(11) EP4003674
(73) Robert Bosch GmbH	Riedmiller, Bernhard	(21) EP20744063.7
(72) SCHAAL, Thorsten	(31) 102014008108	(47) 11.01.2023
ROEHM, Heiko	(32) 02.06.2014	(87) EP2020071321
KOENIG, Anja	(33) Germany	04.02.2021
(31) 102016208128	(51) B25J 9/16	(22) 28.07.2020
102015224365	(11) EP3833516	(54) HAIR-CUTTING APPARATUS
(32) 11.05.2016	(21) EP18759054.2	(73) Koninklijke Philips N.V.
04.12.2015	(47) 11.01.2023	(72) HIN, Theodoor, René, Maria ACCARINO, Luca
(33) Germany	(87) EP2018071778	HOEXUM, Everhardus, Johannes
Germany		(31) 19189104
(51) B25G 1/04		

(32) 30.07.2019	(73) Electronics for Imaging, Inc.	(54) PRESSING DEVICE
(33) European Patent Office (EPO)	(72) WILLIAMS, David J.	(73) System Ceramics S.p.A.
(51) B26D 1/02	(31) 201715809970	(72) STEFANI, Franco
B26D 7/06	201715654473	GOZZI, Franco
(11) EP4008503	201662431793 P	(31) UB20152412
(21) EP21201759.4	(32) 10.11.2017	UB20155626
(47) 11.01.2023	19.07.2017	(32) 08.04.2016
(22) 08.10.2021	08.12.2016	16.11.2015
(54) CUTTING APPARATUS AND METHOD FOR CUTTING A CAP	(33) United States of America	(33) Italy
(73) SACMI COOPERATIVA MECCANICI IMOLA SOCIETA' COOPERATIVA	United States of America	Italy
(72) VENTURINI, Matteo	United States of America	(51) B28C 5/08
PENAZZI, Davide	(51) B27N 3/00	B28C 5/16
(31) 202000029525	B27N 3/04	B07B 1/46
(32) 02.12.2020	C08L 97/02	B07B 1/52
(33) Italy	(11) EP3831564	B01F 27/808
(51) B26D 1/12	(21) EP20306442.3	B01F 33/501
B23K 26/342	(47) 11.01.2023	B01F 35/71
A01F 29/09	(22) 25.11.2020	(11) EP3656522
A01D 34/73	(54) METHOD FOR MANUFACTURING LIGNOCELLULOSE FIBRE PANELS	(21) EP19208292.3
C21D 9/00	(73) SAINT-GOBAIN ISOVER	(47) 11.01.2023
B26D 1/00	(72) SOISSON, Arnaud	(22) 11.11.2019
(11) EP3205464	(31) 1913609	(54) DISCHARGE CHUTE FOR MIXING MACHINES, IN PARTICULAR FOR CONSTRUCTION MIXING MACHINES, FOR MIXING MIXED GOODS SUCH AS MORTAR, POWDERS, SCREEDS OR CONCRETE
(21) EP17155185.6	(32) 02.12.2019	(73) Collomix GmbH
(47) 11.01.2023	(33) France	(72) Essing, Alexander
(22) 08.02.2017	(51) B27N 3/04	Buchberger, Herbert
(54) LASER CLAD CUTTING BLADE FOR AGRICULTURAL CUTTING COMPONENTS	B27N 3/12	(31) 202018005417 U
(73) Kondex Corporation	B27N 3/20	(32) 23.11.2018
(72) Stoffel, Neal J.	B27N 3/22	(33) Germany
Sotelo, Juan G.	B27N 5/00	(51) B29B 7/60
Johnson, Keith A.	B27N 5/02	B29B 7/90
Bechler, Michael A.	B29B 13/06	B29B 7/92
(31) 201615043185	B29C 43/02	B29B 7/94
(32) 12.02.2016	B29C 43/20	B29B 9/06
(33) United States of America	B29C 43/46	B29B 9/14
(51) B26F 1/40	B29C 49/00	B29B 9/18
B26D 5/12	B29C 49/22	D21H 11/08
(11) EP3717189	B29C 51/00	B29B 7/46
(21) EP18829997.8	B29C 51/08	B27N 1/02
(47) 11.01.2023	B65B 43/08	B29K 511/14
(87) IT2018050232	B29K 311/10	B29K 105/00
06.06.2019	B30B 5/02	B29K 101/12
(22) 28.11.2018	B31B 50/59	(11) EP3377562
(54) DEVICE AND METHOD FOR SELECTIVELY SHEAR A SUPPORT ELEMENT, PREFERABLY A CONTINUOUS STRIP	B29C 51/16	(21) EP16865855.7
(73) I.M.A. Industria Macchine Automatiche S.p.A	(11) EP3967615	(47) 11.01.2023
(72) BRILLANTI VENTURA, Gianluca	(21) EP21206499.2	(87) IB2016056892
BETTI, Cristian	(47) 11.01.2023	26.05.2017
(31) 201700136183	(22) 16.03.2017	(22) 16.11.2016
(32) 28.11.2017	(54) METHOD FOR MANUFACTURING A CELLULOSE PRODUCT, CELLULOSE PRODUCT FORMING APPARATUS AND CELLULOSE PRODUCT	(54) PROCESS FOR PRODUCING FIBER- POLYMER-COMPOSITES
(33) Italy	(73) PulPac AB	(73) Stora Enso Oyj
(51) B27K 3/02	(72) Larsson, Ove	(72) KÄLLSTRÖM, Johan
B27K 5/02	Larsson, Linus	KÄLLSTRÖM, Fredrik
C09D 15/00	(31) 1630058	MALMQVIST, Martin
(11) EP3551405	(32) 18.03.2016	BERGSTRÖM, Roger
(21) EP17878691.9	(33) Sweden	JOHANSSON, Conny
(47) 11.01.2023	(51) B28B 3/02	TÖRNBLOM, Maria
(87) US2017065126	B28B 5/02	KARLSSON, Sofi
14.06.2018	B30B 5/06	(31) 1551486
(22) 07.12.2017	B30B 11/02	(32) 17.11.2015
(54) COLORATION OF ACETYLATED WOOD	(11) EP3377284	(33) Sweden
	(21) EP16804906.2	(51) B29B 7/72
	(47) 11.01.2023	C08J 3/00
	(87) IB2016056764	C08J 11/04
	26.05.2017	C08G 63/78
	(22) 10.11.2016	

(11) EP3817904	(54) METHOD FOR THE MANUFACTURE	(72) HANSEN, Robert A.
(21) EP19755265.6	OF A PLASTIC COMPONENT AND	(31) 201313834828
(47) 11.01.2023	SHOE	(32) 15.03.2013
(87) AT2019060219	(73) Adidas AG	(33) United States of America
09.01.2020	(72) LE, Huu Minh Tru	(51) B29C 48/02
(22) 02.07.2019	FATHI, Amir	B29C 48/05
(54) METHOD FOR PRODUCING A	HOLMES, Christopher, Edward	B29C 70/74
POLYCONDENSATE MELT FROM A	SEEFRIED, Andreas, Johannes	B29C 48/30
PRIMARY MATERIAL AND FROM A	REUBER, Norbert	(11) EP3260265
SECONDARY MATERIAL	KEMMER, Constantin, Joachim, Nikolas	(21) EP17165295.1
(73) Next Generation Recyclingmaschinen	ROMANOV, Victor	(47) 11.01.2023
GmbH	(31) 102016223980	(22) 06.04.2017
(72) PICHLER, Thomas	(32) 01.12.2016	(54) NOZZLE AND METHOD FOR
(31) 505702018	(33) Germany	EXTRUSION OF COMPOSITE
(32) 03.07.2018	(51) B29C 45/28	MATERIAL
(33) Austria	(11) EP3892439	(73) The Boeing Company
(51) B29C 33/14	(21) EP21167225.8	(72) SONG, Weidong
B29C 45/14	(47) 11.01.2023	OLBERG, Jeffrey H.
H01L 21/56	(22) 07.04.2021	(31) 201615189316
H05K 3/28	(54) A MOLTEN PLASTIC DELIVERY	(32) 22.06.2016
B29C 45/57	SYSTEM WITH PUSH-PULL CABLE	(33) United States of America
(11) EP3684578	ACTUATION	(51) B29C 48/05
(21) EP18753158.7	(73) Mold-Masters (2007) Limited	B29C 48/21
(47) 11.01.2023	(72) Thompson, Jeffrey Scott	B29C 48/30
(87) EP2018071586	Stengeli, Karsten	D01D 5/34
28.03.2019	Lu, Haiqian	B29C 48/154
(22) 09.08.2018	Rinaldi, Robert	D01D 4/02
(54) DEVICE AND METHOD FOR	(31) 202063006964 P	(11) EP3703929
PRODUCING COMPONENTS WHICH	(32) 08.04.2020	(21) EP18796928.2
ARE COVERED WITH A CASTING	(33) United States of America	(47) 11.01.2023
COMPOUND AT LEAST IN REGIONS	(51) B29C 45/76	(87) EP2018080055
(73) Robert Bosch GmbH	B22D 17/32	09.05.2019
(72) SCHAAF, Ulrich	(11) EP3466638	(22) 02.11.2018
KUGLER, Andreas	(21) EP17802702.5	(54) POLYMER COEXTRUSION HEAD WITH
(31) 102017216711	(47) 11.01.2023	A DUAL-CHANNEL NOZZLE
(32) 21.09.2017	(87) JP2017018849	(73) Polytex Sportbeläge Produktions-GmbH
(33) Germany	30.11.2017	Sima S.r.l.
(51) B29C 39/12	(22) 19.05.2017	(72) SICK, Stephan
B29C 37/00	(54) INJECTION MOLDING MACHINE	SANDER, Dirk
B29D 99/00	(73) Sumitomo Heavy Industries, Ltd.	LOHR, Ivo
(11) EP3431245	(72) HARA, Takayuki	ZUCCONI, Andrea
(21) EP18179262.3	(31) 2016103633	(31) 17199907
(47) 11.01.2023	(32) 24.05.2016	(32) 03.11.2017
(22) 22.06.2018	(33) Japan	(33) European Patent Office (EPO)
(54) METHOD FOR PRODUCING A	(51) B29C 48/00	(51) B29C 48/19
PLASTIC MOULDED PART WITH AN	A43B 3/00	B29C 48/285
OPTICALLY STRUCTURED SURFACE	A43B 7/32	B29C 48/92
REGION AND A PLASTIC MOULDED	A43B 13/18	B29C 48/21
PART	B29D 28/00	B29C 48/49
(73) BLANCO GmbH + Co KG	B32B 5/02	(11) EP3774271
(72) Senk, Benjamin	B32B 5/12	(21) EP19730536.0
Hajek, Andreas	B32B 5/26	(47) 11.01.2023
Gansel, Julia	B32B 25/10	(87) IB2019052665
(31) 102017116306	B29C 48/05	10.10.2019
(32) 19.07.2017	B29C 48/21	(22) 01.04.2019
(33) Germany	B32B 37/15	(54) CALIBRATION METHOD AND
(51) B29C 44/58	B29C 48/07	DEVICE FOR THE PRODUCTION OF
B29C 67/20	B29C 48/08	SEGMENTED EXTRUDED PRODUCTS
A43B 13/12	B29C 48/12	(73) Gimac di Maccagnan Giorgio
A43B 13/18	B29C 48/13	(72) GATTI, Lorenzo
B29C 35/08	(11) EP3081363	MACCAGNAN, Simone
B29C 44/34	(21) EP16168673.8	(31) 201800004187
(11) EP3548247	(47) 11.01.2023	(32) 04.04.2018
(21) EP17816505.6	(22) 11.03.2014	(33) Italy
(47) 11.01.2023	(54) AN EXTRUDED MESH, PAD	(51) B29C 48/30
(87) EP2017080420	COMPRISING AN EXTRUDED MESH	B29C 48/405
07.06.2018	AND METHOD OF MAKING THEREOF	A23P 30/20
(22) 24.11.2017	(73) Albany International Corp.	(11) EP3218161

(21) EP15858202.3	(54) METHOD AND DEVICE FOR	(72) BASSAN, Daniele
(47) 11.01.2023	MANUFACTURING LIQUID-FILLED	CARCIOFFI, Carlo
(87) US2015055267	CONTAINER	<hr/>
19.05.2016	(73) Yoshino Kogyosho Co., Ltd.	(51) B29C 64/124
(22) 13.10.2015	(72) SHIOKAWA, Mitsuru	B33Y 10/00
(54) TWIN SCREW ROTARY HEAD	HOSHINO, Hideaki	(11) EP3702132
EXTRUDER, METHOD OF EXTRUDING	(31) 2018163906	(21) EP19450004.7
RANDOM EXTRUDED PRODUCTS	(32) 31.08.2018	(47) 11.01.2023
(73) Frito-Lay North America, Inc.	(33) Japan	(22) 26.02.2019
(72) MORALES-ALVAREZ, Jorge C.	<hr/>	(54) METHOD FOR LITHOGRAPHY-BASED
ROA, V.N, Mohan	(51) B29C 49/78	GENERATIVE PRODUCTION OF A
(31) 201414538532	B29C 49/46	THREE-DIMENSIONAL COMPONENT
(32) 11.11.2014	(11) EP3727796	(73) UpNano GmbH
(33) United States of America	(21) EP18815649.1	(72) Gruber, Peter
<hr/>	(47) 11.01.2023	<hr/>
(51) B29C 49/42	(87) EP2018083756	(51) B29C 64/153
B08B 5/02	27.06.2019	B22F 3/105
B29C 49/28	(22) 06.12.2018	B29C 64/268
F15B 13/04	(54) METHOD AND DEVICE FOR	B29C 64/393
F15B 13/07	EXPANDING CONTAINERS WITH	B33Y 10/00
F16K 11/085	DETERMINATION OF GAS PORTION	B33Y 30/00
(11) EP3904045	(73) Kronos AG	B33Y 50/02
(21) EP21170936.5	(72) VORNEHM, Andreas	(11) EP3875250
(47) 11.01.2023	(31) 102017130986	(21) EP20184541.9
(22) 28.04.2021	(32) 21.12.2017	(47) 11.01.2023
(54) DEVICE FOR REMOVING DUST FROM	(33) Germany	(22) 07.07.2020
THE INSIDE OF A PREFORM	<hr/>	(54) THREE-DIMENSIONAL
(73) Sidel Participations	(51) B29C 64/10	PRINTING SYSTEM WITH LASER
(72) TROUILLET, Mikael	B29C 64/357	CONVERGENCE CALIBRATION BASED
QUETEL, François	B29C 64/20	UPON ACOUSTIC ANALYSIS
(31) 2004276	B33Y 40/00	(73) LayerWise NV
(32) 29.04.2020	B29C 64/307	(72) Coeck, Sam
(33) France	B03C 3/019	Lietaert, Karel
<hr/>	B22F 3/105	Ray, Nachiketa
(51) B29C 49/46	B01D 45/08	NGUYEN, Anh Dung
B29C 49/12	B22F 10/20	Muralidharan, Gokula Krishna
B29C 49/58	B22F 10/70	Van Vaerenbergh, Jonas
B29C 49/42	(11) EP3609678	(31) 19189728
B29K 67/00	(21) EP17918443.7	(32) 02.08.2019
B29K 23/00	(47) 11.01.2023	(33) European Patent Office (EPO)
B29L 31/00	(87) US2017043079	<hr/>
B29C 49/06	24.01.2019	(51) B29C 64/153
(11) EP3747621	(22) 20.07.2017	B29C 64/329
(21) EP18903141.2	(54) BUILD MATERIAL RECYCLING DEVICE	B33Y 40/00
(47) 11.01.2023	OF A THREE DIMENSIONAL (3D)	B29C 64/321
(87) JP2018042025	PRINTER AND CORRESPONDING	(11) EP3436238
08.08.2019	METHOD	(21) EP16909709.4
(22) 13.11.2018	(73) Hewlett-Packard Development Company,	(47) 11.01.2023
(54) LIQUID BLOW MOLDING DEVICE	L.P.	(87) US2016043525
(73) Yoshino Kogyosho Co., Ltd.	(72) WEST, Randall	25.01.2018
(72) SHIOKAWA, Mitsuru	LAWS, Alexander David	(22) 22.07.2016
HOSHINO, Hideaki	WINBURNE, Robert Lawrence	(54) POWDER BUILD MATERIAL HANDLING
OKUYAMA, Yuichi	KANG, Samantha	(73) Hewlett-Packard Development Company,
(31) 2018015850	<hr/>	L.P.
(32) 31.01.2018	(51) B29C 64/118	(72) ZAMORANO ALVEAR, Juan Manuel
(33) Japan	B29C 64/209	DE SANTIAGO DOMINGUEZ, Sergio
<hr/>	B29C 64/227	GRANADOS ASENSIO, Vicente
(51) B29C 49/46	B29C 64/336	<hr/>
B29C 49/42	B33Y 10/00	(51) B29C 67/00
B29K 67/00	B33Y 30/00	C04B 35/64
B29K 23/00	B33Y 70/00	B33Y 30/00
B29C 49/12	B33Y 80/00	B33Y 50/02
B29C 49/58	B60H 1/00	(11) EP3337651
B29L 31/00	B62D 25/14	(21) EP15908981.2
B29C 49/06	(11) EP3995289	(47) 11.01.2023
(11) EP3845360	(21) EP20206480.4	(87) US2015061909
(21) EP19853536.1	(47) 11.01.2023	26.05.2017
(47) 11.01.2023	(22) 09.11.2020	(22) 20.11.2015
(87) JP2019022608	(54) METHOD OF PRODUCING A MOTOR-	(54) THREE-DIMENSIONAL (3D) PRINTING
05.03.2020	VEHICLE DASHBOARD	(73) Hewlett-Packard Development Company,
(22) 06.06.2019	(73) C.R.F. Società Consortile per Azioni	L.P.
		(72) KASPERCHIK, Vladek

MONROE, Michael G. KORNILOVICH, Pavel CHAMPION, David A.	(54) PULTRUSION DEVICE AND PULTRUSION METHOD	(54) APPARATUS AND METHOD FOR MANUFACTURING FLEXIBLE PIPE
(51) B29C 70/30	(73) VOLKSWAGEN	(73) Baker Hughes Energy Technology UK Limited
B29C 70/54	(72) HOHM, Volker	(72) JHA, Vineet
B29D 99/00	(31) 102018219810	DODDS, Neville
B29C 69/00	(32) 19.11.2018	LATTO, James
(11) EP3650209	(33) Germany	FINCH, David Andrew
(21) EP19204624.1	(51) B29C 70/54	(31) 201421797
(47) 11.01.2023	B29C 70/38	(32) 08.12.2014
(22) 22.10.2019	B29C 53/80	(33) United Kingdom
(54) METHOD OF MANUFACTURING A FIRST CURED PART AND A SECOND CURED PART	B29C 31/08	(51) B29D 30/02
(73) The Boeing Company	(11) EP3885113	B60B 9/26
(72) OSBORNE, Max Marley	(21) EP21159354.6	B60C 7/08
REYNOLDS, David William	(47) 11.01.2023	B60C 7/20
EVANS, Paul David	(22) 25.02.2021	B60C 7/14
(31) 201816183485	(54) COMPOSITE MATERIAL	B60C 11/00
(32) 07.11.2018	MANUFACTURING APPARATUS	(11) EP3486078
(33) United States of America	(73) Subaru Corporation	(21) EP18157520.0
(51) B29C 70/48	(72) YASUKOUCHI, Natsumi	(47) 11.01.2023
B29C 70/68	KUNIYA, Tomoyoshi	(22) 20.02.2018
B29C 70/30	HIRABAYASHI, Daisuke	(54) AIRLESS TIRE MANUFACTURING METHOD
B29C 70/46	(31) 2020054218	(73) Kumho Tire Co., Inc.
B29C 70/78	(32) 25.03.2020	(72) SHIN, Gwi Seong
B29C 45/14	(33) Japan	KIM, Kee Woon
B29D 99/00	(51) B29D 7/01	HWANG, Soon Wook
(11) EP3378635	B32B 27/08	KWARK, Chul Woo
(21) EP17173908.9	B32B 27/24	(31) 20170153088
(47) 11.01.2023	B32B 27/26	(32) 16.11.2017
(22) 01.06.2017	B32B 27/40	(33) Korea (Republic)
(54) METHOD FOR MANUFACTURING PARTS OF PREPREG COMPOSITE MATERIAL.	C08G 18/32	(51) B29D 30/06
(73) Plastiques du Val de Loire	C08G 18/44	B29D 30/00
(72) COMYN, Mathieu	C08G 18/66	(11) EP3310563
MANCEAU, Dominique	C08G 18/72	(21) EP16747722.3
(31) 1752274	C08G 18/73	(47) 11.01.2023
(32) 20.03.2017	C08G 18/75	(87) DE2016000225
(33) France	C08J 5/12	29.12.2016
(51) B29C 70/50	B29C 65/02	(22) 25.05.2016
B29K 101/12	B29C 65/82	(54) HANDLING DEVICE FOR TIRES
(11) EP3638492	B29K 75/00	(73) Harburg-Freudenberger Maschinenbau GmbH
(21) EP18729459.0	(11) EP3581610	(72) BAHLKE, Stefan
(47) 11.01.2023	(21) EP18770652.8	(31) 102015008118
(87) EP2018065672	(47) 11.01.2023	(32) 22.06.2015
20.12.2018	(87) KR2018003187	(33) Germany
(22) 13.06.2018	(22) 20.03.2018	(51) B29D 30/06
(54) RIBBON-SHAPED COMPOSITE MATERIAL	(54) METHOD FOR MANUFACTURING THERMOPLASTIC POLYURETHANE FILM AND THERMOPLASTIC POLYURETHANE FILM MANUFACTURED THEREBY	B60C 19/00
(73) PHP Fibers GmbH	(73) LG Chem, Ltd.	B60C 19/12
(72) SIEJAK, Volker	(72) LEE, Sang Yool	(11) EP3862176
VIETH, Christian	HONG, Joo Hee	(21) EP21155586.7
FLACHENECKER, Andreas	PARK, Se Jung	(47) 11.01.2023
VOLTA, Stefan	KIM, Sang Hwan	(22) 05.02.2021
(31) 17175951	KIM, Jang Soon	(54) PNEUMATIC TIRE
(32) 14.06.2017	(31) 20170034801	(73) The Goodyear Tire & Rubber Company
(33) European Patent Office (EPO)	(32) 20.03.2017	(72) GRIFFOIN, Jean-Claude Patrice Philippe
(51) B29C 70/52	(33) Korea (Republic)	AHRENS, Bodo
B29C 53/72	(51) B29D 23/00	NICULA, Adrian Florin
B29C 53/80	(11) EP3230054	FRANTZEN, Andreas
(11) EP3883758	(21) EP15808002.8	(31) 202062971460 P
(21) EP19802124.8	(47) 11.01.2023	(32) 07.02.2020
(47) 11.01.2023	(87) GB2015053712	(33) United States of America
(87) EP2019080461	16.06.2016	(51) B29L 7/00
28.05.2020	(22) 03.12.2015	B29L 9/00
(22) 07.11.2019		A61F 13/15
		B29C 59/04
		(11) EP3871870
		(21) EP19875514.2

(47) 11.01.2023	B32B 27/30	(33) European Patent Office (EPO)
(87) JP2019041790	(11) EP3902676	(51) B32B 27/08
30.04.2020	(21) EP19835574.5	B32B 27/30
(22) 24.10.2019	(47) 11.01.2023	B32B 27/32
(54) SHAPED SHEET MANUFACTURING METHOD	(87) US2019066649	B32B 27/34
	02.07.2020	B32B 27/36
(73) Zuiko Corporation	(22) 16.12.2019	B65D 65/00
(72) YAMATO Shigeaki	(54) SEALED MULTILAYER STRUCTURES AND PACKAGES COMPRISING SEALED MULTILAYER STRUCTURES	(11) EP3700749
(31) 2018200202	(73) Dow Global Technologies LLC	(21) EP18778949.0
(32) 24.10.2018	(72) YEE, Wu Aik	(47) 11.01.2023
(33) Japan	MA, Eng Kian	(87) EP2018077012
(51) B32B 5/00	GOH, Hwee Lun	02.05.2019
B29C 43/20	(31) PCT/MY2018/050097	(22) 04.10.2018
B29C 70/16	(32) 24.12.2018	(54) LAMINATE STRUCTURE FOR BIOCOMPATIBLE BARRIER PACKAGING
B29C 70/42	(33) World Intellectual Property Office (WIPO)	(73) Renolit SE
B29C 70/88	(51) B32B 15/08	(72) BLOK, Jakob Robert
B32B 7/027	B32B 15/12	VON KIRCHBACH, Hans Paul Henning
B32B 15/08	B32B 27/08	KARSTEN, Petrus Johannes Antonius
B32B 37/10	B32B 27/32	(31) 17198039
B29K 105/08	(11) EP3218187	(32) 24.10.2017
B29L 9/00	(21) EP14906006.3	(33) European Patent Office (EPO)
(11) EP3782810	(47) 11.01.2023	(51) B32B 27/08
(21) EP19788073.5	(87) US2014065133	B32B 27/32
(47) 11.01.2023	19.05.2016	C08J 7/04
(87) JP2019014691	(22) 12.11.2014	B65D 65/40
24.10.2019	(54) CHEMICALLY-RESISTANT BARRIER FILM	C08J 7/048
(22) 02.04.2019	(73) Amcor Flexibles North America, Inc.	C08J 7/043
(54) COMPOSITE OF METAL AND CARBON-FIBER-REINFORCED RESIN MATERIAL, AND METHOD FOR MANUFACTURING COMPOSITE OF METAL AND CARBON-FIBER-REINFORCED RESIN MATERIAL	(72) MCMILLAN, Lyndsey, A. BERBERT, Miriam, B.	(11) EP3666521
(73) NIPPON STEEL CORPORATION	(51) B32B 27/08	(21) EP18425101.5
(72) USUI, Masafumi	B32B 27/30	(47) 11.01.2023
IBARAGI, Masaharu	B32B 27/32	(22) 14.12.2018
NEGI, Noriyuki	B32B 27/34	(54) BOPP-BASED ARTICLE WITH WET BARRIER PROPERTIES
(31) 2018080103	(11) EP3774336	(73) VIBAC S.p.A.
(32) 18.04.2018	(21) EP19719065.5	(72) LEPORI, Alessandro
(33) Japan	(47) 11.01.2023	MAGNO, Carmela
(51) B32B 5/02	(87) US2019026478	PARISSE, Luigi
B32B 5/10	17.10.2019	MAZZAFERRO, Stefano
B32B 5/12	(22) 09.04.2019	(51) B32B 27/30
B32B 5/26	(54) AUTOCLAVABLE BARRIER FILM	B32B 15/085
B32B 27/12	(73) Cryovac, LLC	B32B 27/36
B32B 27/20	(72) BEKELE, Solomon	B32B 27/18
B32B 27/22	(31) 201862655994 P	B32B 27/08
B32B 27/30	(32) 11.04.2018	B32B 27/34
(11) EP3625043	(33) United States of America	B32B 27/32
(21) EP18723523.9	(51) B32B 27/08	B32B 7/12
(47) 11.01.2023	B32B 27/30	(11) EP3634749
(87) EP2018062064	B32B 27/32	(21) EP17912789.9
22.11.2018	B32B 27/34	(47) 11.01.2023
(22) 09.05.2018	B32B 27/36	(87) CN2017087642
(54) SEALING WEB	B65D 65/00	13.12.2018
(73) BMI Group Danmark ApS	(11) EP3700748	(22) 09.06.2017
(72) SIMONIS, Udo	(21) EP18778948.2	(54) MULTILAYER FILMS AND LAMINATES CONTAINING SLIP AGENTS
HEVÖ, Katarina	(47) 11.01.2023	(73) DOW GLOBAL TECHNOLOGIES LLC
(31) 102017110497	(87) EP2018077009	(72) SU, Fengyi
(32) 15.05.2017	02.05.2019	LIU, Andong
(33) Germany	(22) 04.10.2018	CHEN, Hongyu
(51) B32B 7/12	(54) LAMINATE STRUCTURE FOR BARRIER PACKAGING	PAN, Jianping
B32B 27/08	(73) Renolit SE	YUN, Xiao Bing
B32B 27/18	(72) BLOK, Jakob Robert	ALLGEUER, Thomas
B32B 27/20	VON KIRCHBACH, Hans Paul Henning	CHEN, Erqiang
B32B 27/26	KARSTEN, Petrus Johannes Antonius	ZHAO, Tipeng
B32B 27/34	(31) 17198034	LIAO, Guihong
B32B 27/32	(32) 24.10.2017	(51) B32B 38/18
		B32B 37/12

H05K 3/00	(32) 03.04.2019	FISHER, Berkeley
(11) EP3741562	(33) Germany	ANDERSON, Daryl E.
(21) EP20168144.2	(51) B41F 33/16	(51) B41J 2/175
(47) 11.01.2023	G07C 3/00	(11) EP3648977
(22) 06.04.2020	H04N 1/00	(21) EP17791882.8
(54) METHOD FOR PRODUCING A SEMICONDUCTOR MODULE	(11) EP3689611	(47) 11.01.2023
(73) Audi AG	(21) EP19209614.7	(87) US2017057086
Hitachi Energy Switzerland AG	(47) 11.01.2023	25.04.2019
(72) Lui, Chunlei	(22) 18.11.2019	(22) 18.10.2017
Mohn, Fabian	(54) METHOD FOR OPERATING A PRINTING PRESS	(54) INTEGRATED CIRCUIT DEVICE FOR A REPLACEABLE PRINTER COMPONENT
Schuderer, Jürgen	(73) manroland Goss web systems GmbH	(73) Hewlett-Packard Development Company, L.P.
(31) 102019206260	(72) ASAM, Anna	(72) JERAN, Paul
(32) 02.05.2019	FLEISCHMANN, Holger	HIRST, Bartley Mark
(33) Germany	KOSOK, Manuel	WARD, Jefferson P
(51) B32B 38/18	(31) 102018132283	CHOU, Dee
B32B 41/00	(32) 14.12.2018	
G02F 1/13	(33) Germany	
(11) EP3722096	(51) B41J 2/01	(51) B41J 2/175
(21) EP19753626.1	B41F 23/04	B41J 29/38
(47) 11.01.2023	H01L 33/00	B41J 29/393
(87) KR2019001764	(11) EP3831604	G06F 3/12
22.08.2019	(21) EP19840520.1	(11) EP3722099
(22) 13.02.2019	(47) 11.01.2023	(21) EP20175991.7
(54) SYSTEM AND DEVICE FOR LAMINATING OPTICAL FILM	(87) JP2019029204	(47) 11.01.2023
(73) Shanjin Optoelectronics (Suzhou) Co.,LTD.	30.01.2020	(22) 10.07.2018
(72) LEE, Beom Seok	(22) 25.07.2019	(54) METHOD FOR DETERMINING AN AMOUNT OF INK AND INKJET PRINTER
LIM, Yu Jin	(54) LIGHT-IRRADIATING DEVICE AND PRINTING DEVICE	(73) Funai Electric Co., Ltd.
KIM, Chan Soo	(73) Kyocera Corporation	(72) BARKLEY, Lucas
JANG, Eung Jin	(72) TAKUBO, Masami	DEBOARD, Bruce
(31) 20180017588	(31) 2018141333	JONES, Brian
(32) 13.02.2018	(32) 27.07.2018	(31) 201715650001
(33) Korea (Republic)	(33) Japan	(32) 14.07.2017
(51) B33Y 30/00	(51) B41J 2/02	(33) United States of America
B33Y 40/00	B41J 2/115	
B29C 64/255	B41J 2/03	(51) B41J 25/304
B29C 64/245	B41J 2/08	B41J 2/165
(11) EP3686009	B41J 2/095	B41J 2/175
(21) EP19153790.1	(11) EP3720718	(11) EP3708379
(47) 11.01.2023	(21) EP18821778.0	(21) EP20162151.3
(22) 25.01.2019	(47) 11.01.2023	(47) 11.01.2023
(54) POWDER MODULE FOR AN APPARATUS FOR ADDITIVELY MANUFACTURING THREE-DIMENSIONAL OBJECTS	(87) US2018062169	(22) 10.03.2020
(73) Concept Laser GmbH	13.06.2019	(54) LIQUID DISCHARGE APPARATUS
(72) Pfister, Frank	(22) 21.11.2018	(73) Brother Kogyo Kabushiki Kaisha
Beck, Moritz	(54) CONTROLLING WAVEFORMS TO REDUCE NOZZLE CROSS-TALK	(72) ISHIZAKI, Hirotooshi
Ulbrich, Sarah	(73) Eastman Kodak Company	OMURA, Takashi
(51) B41F 23/04	(72) HSU, Chang-fang	MORIMOTO, Itsuki
B41F 11/02	FAGERQUIST, Randy, L.	(31) 2019044036
B41F 21/00	BAUMER, Michael, Frank	(32) 11.03.2019
(11) EP3946949	(31) 201715831955	(33) Japan
(21) EP20712880.2	(32) 05.12.2017	(51) B41J 29/46
(47) 11.01.2023	(33) United States of America	B41J 11/00
(87) EP2020056903	(51) B41J 2/135	G03G 15/00
08.10.2020	B41J 2/14	B41J 29/02
(22) 13.03.2020	B41J 2/055	(11) EP3713770
(54) PRINTING PRESS AND METHOD FOR PRODUCING PRINTED PRODUCTS	(11) EP3562675	(21) EP17931989.2
(73) Koenig & Bauer AG	(21) EP17907161.8	(47) 11.01.2023
(72) SIEMER, Axel	(47) 11.01.2023	(87) US2017062652
ENDRES, Helmut	(87) US2017029214	23.05.2019
KOHRMANN, Manfred	01.11.2018	(22) 20.11.2017
RAUHOFER, Roman	(22) 24.04.2017	(54) MEDIA SENSING
(31) 102019108765	(54) FLUID BACK PRESSURE SENSING WITH A STRAIN SENSOR	(73) Hewlett-Packard Development Company, L.P.
	(73) Hewlett-Packard Development Company, L.P.	(72) LO, Kevin
	(72) GARDNER, James M.	CLAYBURN, Jody L.
		(51) B60B 17/00

B60B 9/16	(73) Compagnie Générale des Etablissements Michelin	(72) YU, San-Chuan
(11) EP3960489	(72) TROWBRIDGE, Jeremy	HUNG, Yuan-Tung
(21) EP21189120.5	KAITHAL, Satish	LEE, Kuo-Ting
(47) 11.01.2023	KNAUFF, Michael	HUANG, Kuan-Kai
(22) 02.08.2021	(51) B60C 11/11	(31) 106135037
(54) ELECTRICAL SHUNTING DEVICE FOR A WHEEL OF A RAILWAY VEHICLE	B60C 11/13	(32) 13.10.2017
(73) ALSTOM Transport Technologies	B60C 11/00	(33) Taiwan, Province of China
(72) MAHLA, Abdelkader	(11) EP3909790	(51) B60G 17/0165
(31) 2008235	(21) EP21168259.6	B60G 17/08
(32) 03.08.2020	(47) 11.01.2023	B60G 17/018
(33) France	(22) 14.04.2021	(11) EP3774412
(51) B60C 1/00	(54) MOTORCYCLE TIRE	(21) EP19715880.1
C08L 7/00	(73) SUMITOMO RUBBER INDUSTRIES, LTD.	(47) 11.01.2023
(11) EP3888940	(72) NOGUCHI, Yoshihisa	(87) EP2019058242
(21) EP21164420.8	TAKAGI, Keiji	10.10.2019
(47) 11.01.2023	(31) 2020085426	(22) 02.04.2019
(22) 23.03.2021	(32) 14.05.2020	(54) METHOD FOR DRIVING VEHICLE DAMPERS UPON PASSING OVER A HUMP
(54) A RUBBER COMPOSITION AND A RUBBER PRODUCT	(33) Japan	(73) Renault s.a.s
(73) The Goodyear Tire & Rubber Company	(51) B60C 11/16	(72) KOBIELA, Gregory
Luxembourg Institute of Science and Technology	(11) EP3590737	PAURON, Clément
(72) WEYDERT, Marc	(21) EP17899061.0	BRUNEAU, Frédéric
BALKO, Suzanne Michelle	(47) 11.01.2023	(31) 1852990
PUCHOT, Laura	(87) JP2017007671	(32) 06.04.2018
TREJO MACHIN, Acerina	07.09.2018	(33) France
VERGE, Pierre	(22) 28.02.2017	(51) B60H 1/00
(31) 202063003513 P	(54) STUD PIN AND STUDED TIRE	B60H 1/32
(32) 01.04.2020	(73) The Yokohama Rubber Co., Ltd.	F25B 6/02
(33) United States of America	(72) MORI, Masakazu	(11) EP3705323
(51) B60C 1/00	(51) B60C 11/16	(21) EP18874781.0
C08L 9/00	B60C 11/03	(47) 11.01.2023
C08L 57/02	(11) EP3815929	(87) CN2018113257
C08L 9/06	(21) EP20196954.0	09.05.2019
C08L 91/00	(47) 11.01.2023	(22) 01.11.2018
C08K 5/103	(22) 18.09.2020	(54) ENHANCED VAPOR INJECTION HEAT PUMP AIR CONDITIONING SYSTEM AND ELECTRIC VEHICLE COMPRISING HEAT PUMP AIR CONDITIONING SYSTEM
C08C 19/20	(54) PNEUMATIC VEHICLE TYRE AND SPIKES	(73) NIO (Anhui) Holding Co., Ltd.
C08C 19/22	(73) Continental Reifen Deutschland GmbH	(72) ZHAO, Ruipo
C08C 19/25	(72) Kendziorra, Norbert	WEN, Baoping
(11) EP3705311	(31) 102019216539	HAN, Fang
(21) EP20160759.5	(32) 28.10.2019	WANG, Lei
(47) 11.01.2023	(33) Germany	WANG, Xueshi
(22) 03.03.2020	(51) B60C 11/24	GAO, Jie
(54) RUBBER COMPOSITION AND PNEUMATIC TIRE	(11) EP3871906	LI, Wei
(73) The Goodyear Tire & Rubber Company	(21) EP20210568.0	(31) 201711057911
(72) ISITMAN, Nihat Ali	(47) 11.01.2023	(32) 01.11.2017
JACOBY, Claude Charles	(22) 30.11.2020	(33) China
POMPEI, Manuela	(54) METHOD OF MONITORING A CHANGE OF TREAD DEPTH OF A TIRE	(51) B60H 1/32
MUNOZ MEJIA, Luisa Fernanda	(73) Continental Reifen Deutschland GmbH	F25D 19/00
KANZ, Carlo	(72) Sahlmüller, Baldo	F25D 11/00
WEYDERT, Marc	Gläser, Frank	F24F 1/10
(31) 201916291056	(31) 102020202494	F25B 31/00
(32) 04.03.2019	(32) 27.02.2020	F24F 1/12
(33) United States of America	(33) Germany	F24F 13/32
(51) B60C 11/11	(51) B60C 23/04	(11) EP3825158
B60C 11/12	F16F 15/36	(21) EP18934280.1
B60C 11/00	(11) EP3470245	(47) 11.01.2023
(11) EP3687838	(21) EP18156008.7	(87) JP2018035184
(21) EP17784743.1	(47) 11.01.2023	26.03.2020
(47) 11.01.2023	(22) 09.02.2018	(22) 21.09.2018
(87) US2017053891	(54) TIRE PRESSURE DETECTOR WITH WHEEL BALANCING FUNCTION AND WHEEL BALANCING SYSTEM THEREOF	(54) REFRIGERATION UNIT FOR TRANSPORTATION, AND METHOD OF ASSEMBLING REFRIGERATION UNIT FOR TRANSPORTATION
04.04.2019	(73) CUB Elecparts Inc.	
(22) 28.09.2017		
(54) TRUCK TIRE TREAD WITH AXIALLY ALTERNATING RUBBER COMPOUNDS		

(73) MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.	(51) B60K 6/547 B60K 6/36 F16H 3/093 B60K 6/48	B32B 5/18 B60R 13/02 B32B 7/12
(72) TAKAHASHI Wataru KAI Masakazu	(11) EP3584101 (21) EP19179419.7 (47) 11.01.2023 (22) 11.06.2019	(11) EP3272570 (21) EP16764468.1 (47) 11.01.2023 (87) JP2016001400 22.09.2016
(51) B60K 1/00 B60K 1/04	(54) HYBRID POWER VEHICLE, HYBRID POWER DRIVING SYSTEM AND GEAR BOX	(22) 11.03.2016 (54) LAYERED BODY FOR AUTOMOBILE INTERIOR MATERIAL
(11) EP3504077 (21) EP17801005.4 (47) 11.01.2023 (87) DE2017000270 01.03.2018 (22) 23.08.2017	(73) SAIC MOTOR CORPORATION LIMITED (72) GE, Hailong ZHU, Jun WANG, Jian XU, Bin FAN, Yuchuan LIU, Xinyu JIANG, Deyan ZHOU, Jian SUN, Jun GU, Zhengmin	(73) Zeon Corporation (72) FUJIWARA, Takanori (31) 2015055507 (32) 19.03.2015 (33) Japan
(54) ELECTRIC VEHICLE WITH DEVICE FOR ARRANGING BATTERIES	(72) CONSTIEN, Hans-Peter Constien, Hans-Peter	(51) B60K 37/06 (11) EP3990302 (21) EP20772090.5 (47) 11.01.2023 (87) EP2020076451 06.05.2021 (22) 22.09.2020
(73) CONSTIEN, Hans-Peter (31) 202016005333 U (32) 25.08.2016 (33) Germany	(31) 201910027640 (32) 11.01.2019 (33) China	(54) METHOD AND CONTROL DEVICE FOR OPERATING A VIRTUAL REALITY HEADSET IN A VEHICLE
(51) B60K 1/00 B60K 11/02	(51) B60K 7/00 B60K 17/04 B60K 17/30 B66F 9/075	(73) holoride GmbH (72) NOBILI, Simona PROFENDINER, Daniel (31) 19205788 (32) 29.10.2019 (33) European Patent Office (EPO)
(11) EP3831630 (21) EP20205886.3 (47) 11.01.2023 (22) 05.11.2020	(11) EP3760463 (21) EP20177417.1 (47) 11.01.2023 (22) 29.05.2020	(51) B60L 7/14 B60L 7/12 B60L 7/16
(54) ELECTRIC AXLE	(54) DRIVE DEVICE FOR AN INDUSTRIAL TRUCK WITH PLANETARY GEAR	(11) EP3578409 (21) EP18906888.5 (47) 11.01.2023 (87) JP2018006828 29.08.2019 (22) 23.02.2018
(73) Robert Bosch GmbH (72) Zweigle, Peter (31) 102019218955 (32) 05.12.2019 (33) Germany	(73) Kordel Antriebstechnik GmbH (72) Raue, Josef (31) 102019004511 (32) 28.06.2019 (33) Germany	(54) WORK VEHICLE POWER REGENERATION SYSTEM
(51) B60K 1/04	(51) B60K 35/00 G06F 3/14 G06V 20/59 G06V 40/18 G09G 5/38 G06F 3/01	(73) Hitachi Construction Machinery Co., Ltd. (72) FUKUDA Naoki ARAI Masatsugu SHIMIZU Yukiaki TANAKA Takaaki TANAKA Shintarou
(11) EP3953201 (21) EP19725029.3 (47) 11.01.2023 (87) EP2019059132 15.10.2020 (22) 10.04.2019	(11) EP3734502 (21) EP20167270.6 (47) 11.01.2023 (22) 31.03.2020	(51) B60L 50/75 H01M 50/572 H01M 16/00 B60L 58/40
(54) A VEHICLE COMPRISING A BATTERY PROTECTION STRUCTURE	(54) DISPLAY METHOD	(11) EP3782210 (21) EP19721568.4 (47) 11.01.2023 (87) EP2019060406 23.01.2020 (22) 24.04.2019
(73) VOLVO TRUCK CORPORATION (72) BLOMSTRAND, Jesper	(73) Aptiv Technologies Limited (72) Beineke, Heather L. Srail, Douglas A. Kady, Mark A.	(54) ELECTRICAL ENERGY SYSTEM COMPRISING FUEL CELLS
(51) B60K 6/28 H01M 50/211 H01M 50/507 H01M 50/51 H01M 50/578 H01M 50/178 H01M 50/548 H01M 50/553	(31) 201916400244 (32) 01.05.2019 (33) United States of America	(73) Audi AG (72) BREU, Martin SCHIEDERMEIER, Maximilian (31) 102018211815 (32) 17.07.2018 (33) Germany
(11) EP3512008 (21) EP18828081.2 (47) 11.01.2023 (87) KR2018007594 10.01.2019 (22) 04.07.2018	(51) B60K 37/00 B32B 27/00 B32B 27/30 B32B 5/16 B32B 5/22 B32B 5/24 B32B 5/30 B32B 27/12 B32B 3/02 B32B 5/02	(87) EP2019060406 23.01.2020 (22) 24.04.2019 (54) ELECTRICAL ENERGY SYSTEM COMPRISING FUEL CELLS
(54) BATTERY MODULE, AND BATTERY PACK AND VEHICLE INCLUDING THE SAME	(73) LG Energy Solution, Ltd. (72) HONG, Soon-Chang KIM, Hyo-Chan RYU, Kye-Yeon	(73) BREU, Martin SCHIEDERMEIER, Maximilian (31) 102018211815 (32) 17.07.2018 (33) Germany
(11) EP3512008 (21) EP18828081.2 (47) 11.01.2023 (87) KR2018007594 10.01.2019 (22) 04.07.2018	(31) 20170085993 (32) 06.07.2017 (33) Korea (Republic)	(51) B60L 53/22

B60L 55/00	(47) 11.01.2023	(73) PSA Automobiles SA
H02J 3/32	(87) EP2019069360	Valeo Vision
H02J 7/02	30.01.2020	(72) BORE, Michael
H02M 1/00	(22) 18.07.2019	SIMANDRE, Stephane
H02M 1/42	(54) A TRAILER CARGO MONITORING	SCHULTE, Laurent
H02M 3/00	APPARATUS FOR A VEHICLE	LELARGE, Olivier
H02M 3/28	(73) Continental Autonomous Mobility	(31) 1871733
H02M 3/335	Germany GmbH	(32) 23.11.2018
H02M 7/797	(72) ONICA, Dan	(33) France
B60L 1/00	(31) 201916365818	(51) B60Q 1/08
H02M 1/44	18465551	B60Q 1/20
(11) EP3790179	(32) 27.03.2019	(11) EP2965946
(21) EP20811506.3	27.07.2018	(21) EP15171396.3
(47) 11.01.2023	(33) United States of America	(47) 11.01.2023
(87) CN2020084869	European Patent Office (EPO)	(22) 10.06.2015
30.12.2020	(51) B60P 3/34	(54) VEHICULAR LIGHTING APPARATUS
(22) 15.04.2020	B60R 15/02	(73) Toyota Jidosha Kabushiki Kaisha
(54) POWER CONVERSION MODULE,	(11) EP3790765	(72) NAKASHIMA, Kazuhiko
VEHICLE-MOUNTED CHARGER, AND	(21) EP19733019.4	(31) 2014141453
ELECTRIC VEHICLE	(47) 11.01.2023	(32) 09.07.2014
(73) Huawei Digital Power Technologies Co.,	(87) EP2019066674	(33) Japan
Ltd.	02.01.2020	(51) B60Q 1/34
(72) LIANG, Yongtao	(22) 24.06.2019	B60Q 1/46
LIU, Weiping	(54) MOTORHOME WITH A ROOM	B60Q 1/48
SU, Feng	EXTENSION MODULE	B60Q 9/00
(31) 201910554830	(73) Protec GmbH & Co. KG	B60Q 1/50
(32) 25.06.2019	(72) WIETH, Franz	B60Q 5/00
(33) China	(31) 102018210328	G08G 1/16
(51) B60L 53/31	(32) 25.06.2018	(11) EP3781439
G05B 19/042	(33) Germany	(21) EP19714152.6
(11) EP3965399	(51) B60P 3/40	(47) 11.01.2023
(21) EP20867314.5	F03D 13/40	(87) EP2019057295
(47) 11.01.2023	(11) EP3744567	24.10.2019
(87) CN2020095953	(21) EP19380010.9	(22) 22.03.2019
01.04.2021	(47) 11.01.2023	(54) METHOD FOR THE COMMUNICATION
(22) 12.06.2020	(22) 30.05.2019	OF A MOTOR VEHICLE WITH A ROAD
(54) ELECTRONIC DEVICE AND	(54) A VEHICULE FOR TRANSPORTING A	USER, AND MOTOR VEHICLE FOR
HARDWARE ADDRESS	WIND TURBINE BLADE	CARRYING OUT THE METHOD
CONFIGURATION METHOD	(73) SIEMENS GAMESA RENEWABLE	(73) VOLKSWAGEN
(73) Huawei Digital Power Technologies Co.,	ENERGY INNOVATION &	AKTIENGESELLSCHAFT
Ltd.	TECHNOLOGY, S.L.	(72) OTHERSEN, Ina
(72) ZENG, Tao	(72) Iriarte Larumbe, Jose Luis	BUSSIUS, Annika
WANG, Shaohua	(51) B60P 3/40	WYSZKA, Robert Jan
GE, Jing	F03D 13/40	ROTH, Joscha
(31) 201910900517	(11) EP3995692	(31) 102018206040
(32) 23.09.2019	(21) EP20205786.5	(32) 20.04.2018
(33) China	(47) 11.01.2023	(33) Germany
(51) B60N 2/56	(22) 04.11.2020	(51) B60Q 1/34
B60N 2/64	(54) METHOD OF TRANSPORTING A WIND	B60W 30/18
B60N 2/70	TURBINE BLADE	(11) EP3854634
(11) EP3912853	(73) Trans Adm	(21) EP18934469.0
(21) EP21173329.0	Adams, Peter	(47) 11.01.2023
(47) 11.01.2023	(72) ADAMS, Peter	(87) IB2018001176
(22) 11.05.2021	(51) B60Q 1/00	26.03.2020
(54) SITTING AREA OF VENTILATED SEAT	B60Q 1/26	(22) 21.09.2018
COMPRISING A SUSPENSION SHEET	B60Q 1/28	(54) VEHICLE CONTROL METHOD AND
IN THE FORM OF A FILM	B60Q 1/30	VEHICLE CONTROL DEVICE
(73) Renault s.a.s	F21S 41/50	(73) NISSAN MOTOR CO., LTD.
(72) SOUVILLE, Philippe	F21S 43/50	Renault s.a.s
BARRIERE, Hervé	(11) EP3883816	(72) ITO, Atsushi
REMACLE, HENRI	(21) EP19813108.8	DEGAWA, Katsuhiko
(31) 2005072	(47) 11.01.2023	NOJIRI, Takahiro
(32) 19.05.2020	(87) FR2019052540	SHINO, Tatsuya
(33) France	28.05.2020	EMOTO, Shuhei
(51) B60P 1/00	(22) 24.10.2019	ISHIMARU, Shuko
B60P 3/00	(54) VEHICLE OPTICAL UNIT HAVING	ASAI, Toshihiro
(11) EP3829926	RETROREFLECTORS FLOATING	(51) B60Q 1/50
(21) EP19739320.0	RELATIVE TO A MASK	B60Q 9/00

(11) EP3702215	(22) 29.11.2019	(22) 07.05.2019
(21) EP19160148.3	(54) ROOF CONSOLE FOR A VEHICLE	(54) METHOD AND CONTROL DEVICE FOR OPERATING A TRANSMITTER UNIT OF A WIRELESS KEY SYSTEM OF A MOTOR VEHICLE, AND MOTOR VEHICLE HAVING SUCH A TRANSMITTER UNIT
(47) 11.01.2023	(73) VOLKSWAGEN AKTIENGESELLSCHAFT	(73) Continental Automotive Technologies GmbH
(22) 28.02.2019	(72) SEIDL, Nicolas	Bayerische Motoren Werke Aktiengesellschaft
(54) METHOD FOR CORRECTING A LIGHT PATTERN AND AUTOMOTIVE LIGHTING DEVICE	(31) 102018221709	(72) REISINGER, Thomas
(73) Valeo Vision	(32) 13.12.2018	KREBS, Alexander
(72) PRAT, Constantin	(33) Germany	(31) 102018208884
(51) B60Q 3/20	(51) B60R 16/03	(32) 06.06.2018
B60Q 3/54	B60R 16/02	(33) Germany
B60Q 3/64	(11) EP3891021	(51) B60S 1/04
B60Q 3/74	(21) EP19805174.0	B60S 1/40
B60R 7/04	(47) 11.01.2023	(11) EP3856582
B60Q 3/225	(87) EP2019080914	(21) EP19749321.6
(11) EP3847057	11.06.2020	(47) 11.01.2023
(21) EP19759365.0	(22) 12.11.2019	(87) EP2019070739
(47) 11.01.2023	(54) PRODUCTION METHOD FOR A VEHICLE NETWORK OF A VEHICLE, AND VEHICLE NETWORK	02.04.2020
(87) EP2019072755	(73) Lisa Dräxlmaier GmbH	(22) 01.08.2019
12.03.2020	(72) WORTBERG, Michael	(54) ADAPTER AND WIPER DEVICE
(22) 27.08.2019	EBERL, Dominik	(73) Robert Bosch GmbH
(54) COVERING DEVICE FOR COVERING A REGION IN THE INTERIOR OF A MOTOR VEHICLE	(31) 102018131199	(72) DEPONDT, Helmut
(73) VOLKSWAGEN AKTIENGESELLSCHAFT	(32) 06.12.2018	TRUYENS, Stijn
(72) FROMMHOLZ, Dirk	(33) Germany	KRAEMER, Godelieve
(31) 102018215110	(51) B60R 21/26	KRUSE, Michael
(32) 05.09.2018	B01D 46/00	BUBBA, Marcello
(33) Germany	B01D 46/24	BRATEC, Herve
(51) B60R 7/04	(11) EP3529111	(31) 102018216452
H04M 1/02	(21) EP17862733.7	(32) 26.09.2018
(11) EP3851325	(47) 11.01.2023	(33) Germany
(21) EP20205841.8	(87) US2017056744	(51) B60S 1/38
(47) 11.01.2023	26.04.2018	B60S 1/40
(22) 05.11.2020	(22) 16.10.2017	B60S 1/52
(54) MORPHING SURFACE APPARATUS AND RELATED METHODS	(54) INTERRUPTED, DIRECTIONAL EMBOSS OF FLAT SHEET	(11) EP3727958
(73) Continental Automotive Systems, Inc.	(73) Cummins Filtration IP, Inc.	(21) EP18786734.6
(72) Brown, Arthur S.	(72) PAGE, Emmanuel	(47) 11.01.2023
Schwegler, Jason	BARRETEAU, Anthony	(87) EP2018077694
(31) 201916707119	BADEAU, Kurt M.A.	27.06.2019
(32) 09.12.2019	HOLM, Christopher E.	(22) 11.10.2018
(33) United States of America	(31) 201662410529 P	(54) WIPER BLADE DEVICE
(51) B60R 16/02	(32) 20.10.2016	(73) Robert Bosch GmbH
(11) EP3590769	(33) United States of America	(72) KRAEMER, Godelieve
(21) EP19183913.3	(51) B60R 25/10	(31) 102017223518
(47) 11.01.2023	H05B 45/18	(32) 21.12.2017
(22) 02.07.2019	H05B 47/18	(33) Germany
(54) NOISE FILTER AND WIRE HARNESS	B60Q 11/00	(51) B60S 1/38
(73) YAZAKI CORPORATION	(11) EP3689686	B60S 1/40
(72) TSUKAMOTO, Masashi	(21) EP20153198.5	B60S 1/52
YAMADA, Kunihiko	(47) 11.01.2023	(11) EP3727957
TOYODA, Ryoma	(22) 22.01.2020	(21) EP18793386.6
TSUBO, Keigo	(54) MOTOR VEHICLE LIGHT AND SYSTEM	(47) 11.01.2023
(31) 2018175136	(73) Marelli Automotive Lighting Reutlingen (Germany) GmbH	(87) EP2018078568
2018127817	(72) Blum, Dirk	27.06.2019
(32) 19.09.2018	Jedek, Andreas	(22) 18.10.2018
04.07.2018	(31) 202019100543 U	(54) WINDSHIELD WIPER DEVICE
(33) Japan	(32) 30.01.2019	(73) Robert Bosch GmbH
(51) B60R 16/02	(33) Germany	(72) TERENTIC, Andrija
B60K 37/06	(51) B60R 25/24	WOLFGARTEN, Sven
(11) EP3894257	G07C 9/00	RAPP, Harald
(21) EP19813765.5	(11) EP3802234	GEISSLER, Sascha
(47) 11.01.2023	(21) EP19723747.2	KRAEMER, Godelieve
(87) EP2019083032	(47) 11.01.2023	KRUSE, Michael
18.06.2020	(87) EP2019061682	BOSNIC, Tanja
	12.12.2019	

CIRKOVIC, Nikola	B60T 17/22	(87) EP2018078044
BRATEC, Herve	(11) EP3717319	23.05.2019
KRAEMER, Hendrik	(21) EP18815551.9	(22) 15.10.2018
JOCIC, Najdan	(47) 11.01.2023	(54) HYDRAULIC APPARATUS FOR
(31) 102017223140	(87) EP2018082730	GENERATING BRAKE PRESSURE FOR
(32) 19.12.2017	06.06.2019	A HYDRAULIC BRAKING SYSTEM
(33) Germany	(22) 27.11.2018	(73) Continental Automotive Technologies
(51) B60S 1/38	(54) METHOD FOR EVALUATING THE	GmbH
B60S 1/52	NEEDED BRAKE FORCE OF A BRAKE	(72) LOKE, Jörg
(11) EP2962911	CALIPER	KRÄMER, Horst
(21) EP14175339.2	(73) KNORR-BREMSE Systeme für	RÜFFER, Manfred
(47) 11.01.2023	Schienenfahrzeuge GmbH	BISCHOFF, Andreas
(22) 02.07.2014	(72) RASEL, Thomas	GERBER, Sascha
(54) WIPER ARM DEVICE	(31) 102017011148	KNEWITZ, Ingo
(73) Robert Bosch GmbH	(32) 01.12.2017	(31) 102017220207
(72) Kruse, Michael	(33) Germany	(32) 14.11.2017
(51) B60S 1/40	(51) B60T 8/175	(33) Germany
(11) EP3676135	B60T 8/17	(51) B60T 13/74
(21) EP17758535.3	B60W 30/18	B60T 1/06
(47) 11.01.2023	B60W 10/10	F16D 65/22
(87) EP2017071553	B60K 28/16	F16D 121/14
07.03.2019	(11) EP3929042	F16D 121/18
(22) 28.08.2017	(21) EP21185698.4	F16D 51/00
(54) A WINDSCREEN WIPER DEVICE	(47) 11.01.2023	(11) EP3755590
(73) Trico Belgium S.A.	(22) 22.09.2015	(21) EP18709285.3
(72) MARCHAND, Thimotey	(54) MOTOR TORQUE CONTROL DEVICE	(47) 11.01.2023
(51) B60S 1/40	AND MOTOR TORQUE CONTROL	(87) EP2018054529
(11) EP3931052	METHOD FOR AN ELECTRIC VEHICLE	29.08.2019
(21) EP20707619.1	(73) Robert Bosch GmbH	(22) 23.02.2018
(47) 11.01.2023	(72) WATANABE, Takuya	(54) ELECTRIC PARKING BRAKE
(87) EP2020055144	(31) 2014250310	ACTUATOR MOUNTING ASSEMBLY,
03.09.2020	(32) 10.12.2014	SUPPORTING BRACKET, BRAKE
(22) 27.02.2020	(33) Japan	BACKPLATE AND A PROCESS FOR
(54) WINDSCREEN WIPER DEVICE	(51) B60T 8/40	MOUNTING
(73) Robert Bosch GmbH	B60T 13/68	(73) Continental Automotive Technologies
(72) DEPONDT, Helmut	B60T 13/66	GmbH
CAMPSTEYN, Matthew	B60T 13/74	(72) CECHELLI, Ivan
(31) 102019202678	B60T 13/14	MAGINI, Libero
(32) 28.02.2019	B60T 8/32	(51) B60T 13/74
(33) Germany	B60T 8/88	H02K 7/116
(51) B60S 1/52	B60T 8/90	F16D 55/226
B60S 1/38	B60T 17/22	F16D 65/18
(11) EP3737593	B60T 7/04	F16D 121/24
(21) EP18800902.1	B60T 13/16	F16D 125/40
(47) 11.01.2023	(11) EP3710321	F16D 125/48
(87) EP2018080559	(21) EP18811445.8	F16H 1/28
18.07.2019	(47) 11.01.2023	(11) EP3712024
(22) 08.11.2018	(87) EP2018080457	(21) EP19164273.5
(54) WIPER BLADE DEVICE	23.05.2019	(47) 11.01.2023
(73) Robert Bosch GmbH	(22) 07.11.2018	(22) 21.03.2019
(72) RAPP, Harald	(54) METHOD FOR CHECKING THE	(54) ACTUATOR FOR
KRAEMER, Godelieve	FUNCTIONALITY OF A BRAKING	ELECTROMECHANICAL PARKING
(31) 102018200316	SYSTEM, AND BRAKING SYSTEM	BRAKE HAVING A HOUSING
(32) 11.01.2018	(73) Continental Automotive Technologies	WITH INTEGRATED BRUSH CARD
(33) Germany	GmbH	ASSEMBLY
(51) B60T 1/00	(72) NEU, Andreas	(73) Keyang Electric Machinery Co., Ltd.
F16H 63/34	HOLZHERR, Boris	(72) JANG, Su Gil
(11) EP3747713	BUCH, Thomas	LEE, Ho Gun
(21) EP19177856.2	BRENN, Martin	PARK, Jang Soo
(47) 11.01.2023	BALTES, Andreas	(51) B60T 17/08
(22) 03.06.2019	(31) 102017220308	(11) EP3738847
(54) PARK LOCK ARRANGEMENT	(32) 15.11.2017	(21) EP19174949.8
(73) Volvo Car Corporation	(33) Germany	(47) 11.01.2023
(72) HALL, Tommie	(51) B60T 11/16	(22) 16.05.2019
KISIELEWICZ, Rafal	B60T 11/26	(54) SPRING BRAKE ACTUATOR FOR
(51) B60T 8/17	(11) EP3710322	A VEHICLE, IN PARTICULAR A
B60T 13/66	(21) EP18795315.3	COMMERCIAL VEHICLE
	(47) 11.01.2023	(73) ZF CV Systems Europe BV

(72) Zbylut, Michal	(31) 201818544	(72) PRUNIER, Germain
(51) B60T 17/22	(32) 14.11.2018	PENNEC, Pierre-Yves
F16D 66/02	(33) United Kingdom	BEAUSEIGNEUR, Christophe
(11) EP3717323	(51) B60W 50/06	POQUET, Thomas
(21) EP18815573.3	B60W 30/14	(31) 2002152
(47) 11.01.2023	(11) EP3947089	(32) 03.03.2020
(87) EP2018083031	(21) EP19717776.9	(33) France
06.06.2019	(47) 11.01.2023	(51) B61D 47/00
(22) 29.11.2018	(87) EP2019058310	(11) EP3762272
(54) DISC BRAKE HAVING A CONDITION	08.10.2020	(21) EP19707400.8
MONITORING ARRANGEMENT AND	(22) 02.04.2019	(47) 11.01.2023
METHOD FOR MONITORING THE	(54) AN ON-BOARD CONTROL SYSTEM	(87) EP2019055275
CONDITION OF SUCH A DISC BRAKE	FOR OPERATING A VEHICLE	12.09.2019
(73) KNORR-BREMSE Systeme für	(73) VOLVO TRUCK CORPORATION	(22) 04.03.2019
Nutzfahrzeuge GmbH	(72) BORA, Teodoro	(54) STATION FOR LOADING AND
(72) BLESSING, Michael	FRIES, Johan	UNLOADING SEMI-TRAILERS OF
FUCHS, Alexander	BOISSON, Laurent	ARTICULATED LORRIES ON/FROM
FRICKE, Jens	(51) B60W 60/00	THE RAILWAY
(31) 102017128595	B60W 40/10	(73) Brentauto di Renato Fassina E C. S.N.C.
(32) 01.12.2017	B60W 50/14	(72) ZANETTI, Fabio
(33) Germany	G06N 20/00	(31) 201800003357
(51) B60W 20/11	G06N 3/08	(32) 08.03.2018
B60W 30/182	(11) EP3533681	(33) Italy
B60W 50/08	(21) EP19178149.1	(51) B61D 49/00
B60K 6/48	(47) 11.01.2023	E06B 5/01
B60K 6/52	(22) 04.06.2019	(11) EP3772445
(11) EP3492328	(54) METHOD FOR DETECTING SAFETY	(21) EP20189972.1
(21) EP18214492.3	OF DRIVING BEHAVIOR, APPARATUS	(47) 11.01.2023
(47) 11.01.2023	AND STORAGE MEDIUM	(22) 07.08.2020
(22) 30.04.2012	(73) Apollo Intelligent Driving Technology	(54) VEHICLE HATCH WITH VISUAL
(54) HYBRID ELECTRIC VEHICLE AND	(Beijing) Co., Ltd.	CONTRAST
METHOD OF CONTROL THEREOF	(72) HU, Yunyan	(73) SpeedInnov
(73) Jaguar Land Rover Limited	WANG, Ya	(72) CHARBONNEL, Fabrice
(72) BERRY, Adrian	PAN, Yifeng	(31) 1909120
HOLTON, Timothy	HAO, Dayang	(32) 09.08.2019
HEMES, Elliot	LIU, Rui	(33) France
(31) 201107102	ZHANG, Lizhi	(51) B61F 5/02
(32) 28.04.2011	LUO, Xiaojun	(11) EP3756968
(33) United Kingdom	ZHANG, Yaling	(21) EP20020300.8
(51) B60W 30/16	TAO, Ji	(47) 11.01.2023
(11) EP3707046	SHEN, Ruixiang	(22) 25.06.2020
(21) EP18815016.3	HUANG, Qihao	(54) RAIL VEHICLE OR LOCOMOTIVE
(47) 11.01.2023	(31) 201810878321	WITH A PULL-PUSH ROD FOR THE
(87) IB2018058836	(32) 03.08.2018	TRANSFER OF LONGITUDINAL
16.05.2019	(33) China	FORCES BETWEEN THE BOGIE AND
(22) 09.11.2018	(51) B61B 13/10	THE BODY OF THE RAIL VEHICLE OR
(54) ADJUSTING THE LONGITUDINAL	(11) EP3858703	LOCOMOTIVE
MOTION CONTROL OF A HOST	(21) EP20216190.7	(73) Skoda Transportation, a.s.
MOTOR VEHICLE BASED ON THE	(47) 11.01.2023	(72) Spalek, Petr
ESTIMATION OF THE TRAVEL	(22) 15.09.2017	Bohuslav, Václav
TRAJECTORY OF A LEADING MOTOR	(54) BURIED SYSTEM FOR DISPENSING	(31) 20190419
VEHICLE	GOODS IN URBAN ENVIRONMENTS	(32) 26.06.2019
(73) C.R.F. Società Consortile per Azioni	(73) VINCI CONSTRUCTION	(33) Czech Republic
(72) LANFRANCO, Claudio	(72) STUBLER, Jérôme	(51) B61F 9/00
(31) 201700128731	BOISSAVIT, Jean-Serge	B61D 13/00
(32) 10.11.2017	TROCME, Maxime	B61K 9/00
(33) Italy	(31) 1658686	B61L 15/00
(51) B60W 30/18	(32) 16.09.2016	B61L 25/02
(11) EP3880533	(33) France	(11) EP3630575
(21) EP19805246.6	(51) B61D 37/00	(21) EP18727249.7
(47) 11.01.2023	(11) EP3875339	(47) 11.01.2023
(87) EP2019081316	(21) EP21159963.4	(87) EP2018063502
22.05.2020	(47) 11.01.2023	29.11.2018
(22) 14.11.2019	(22) 01.03.2021	(22) 23.05.2018
(54) VEHICLE CONTROL SYSTEM AND	(54) FOLDING SHELF WITH LARGE	(54) METHOD FOR DETECTING
METHOD	LONGITUDINAL EXTENSION AND	DERAILMENT OF A RAIL VEHICLE
(73) Jaguar Land Rover Limited	VEHICLE INCLUDING SUCH A SHELF	(73) Bombardier Transportation GmbH
(72) ADWAN, Adam	(73) SpeedInnov	(72) ROCHE, Fabrice

MONARTH, Andreas	(21) EP21751738.2	(51) B62D 27/06
PEREZ GOMEZ, Guillermo	(47) 11.01.2023	B60N 2/015
(31) 102017208760	(87) JP2021014712	B60N 2/24
(32) 23.05.2017	14.10.2021	B60N 2/30
(33) Germany	(22) 07.04.2021	B62D 23/00
(51) B61L 5/04	(54) ROTATIONAL ANGLE DETECTING	B62D 31/02
B61L 5/10	DEVICE, ELECTRIC POWER	(11) EP3689718
(11) EP3696045	STEERING DEVICE, AND CONTROL	(21) EP20153350.2
(21) EP19768993.8	METHOD OF ELECTRIC POWER	(47) 11.01.2023
(47) 11.01.2023	STEERING DEVICE	(22) 23.01.2020
(87) CN2019104358	(73) NSK Ltd.	(54) VEHICLE, PREFERABLY COMMERCIAL
09.07.2020	(72) SUZUKI, Dai	VEHICLE, WITH A GRID FRAME
(22) 04.09.2019	KOBAYASHI, Takayuki	(73) MAN Truck & Bus SE
(54) LOCKING MECHANISM FOR POINT	KUMAGAI, Shin	(72) Jacquemart-Purson, Amélie
MACHINE	NAKAMURA, Hidetaka	Klitzing, Tatjana
(73) CRSC RESEARCH & DESIGN	(31) 2021016704	(31) 102019102687
INSTITUTE GROUP CO., LTD.	2020114168	(32) 04.02.2019
(72) YANG, Shuren	2020069997	(33) Germany
LIU, Shangchao	(32) 04.02.2021	(51) B62D 33/077
XU, Kezheng	01.07.2020	B62D 33/04
HUANG, Tianxin	08.04.2020	(11) EP3722188
SUN, Xiaoyong	(33) Japan	(21) EP20169191.2
ZHANG, Yulin	Japan	(47) 11.01.2023
XUE, Siyi	Japan	(22) 10.04.2020
TIAN, Shuang	(51) B62D 21/11	(54) RIGID TRUCK WITH SPACER
(31) 201910005651	(11) EP3686085	INSERTED BETWEEN THE FRAME
(32) 03.01.2019	(21) EP20151733.1	AND THE SELF-SUPPORTING BODY
(33) China	(47) 11.01.2023	(73) Lecapitaine Industrie
(51) B62D 5/04	(22) 14.01.2020	(72) BRZOKEWICZ, Olivier
B62D 1/00	(54) MOTOR VEHICLE COMPRISING	(31) 1903885
(11) EP3573876	A REINFORCEMENT ELEMENT	(32) 11.04.2019
(21) EP18703185.1	BETWEEN A CRADLE AND A WHEEL	(33) France
(47) 11.01.2023	YOKE	(51) B62D 35/00
(87) US2018015003	(73) Renault s.a.s	B62D 37/02
02.08.2018	(72) BELIN, CYRIL	(11) EP3967581
(22) 24.01.2018	BIEN, CEDRIC	(21) EP21193648.9
(54) INTEGRATED AUTO-STEER SYSTEM	(31) 1900531	(47) 11.01.2023
FOR VEHICLE	(32) 22.01.2019	(22) 27.08.2021
(73) AgJunction LLC	(33) France	(54) LEVER MECHANISM FOR A WHEEL
(72) TAN, Jim	(51) B62D 25/00	DEFLECTOR AND METHOD FOR
JOUGHIN, Alan, Robert	B32B 3/26	OPERATING A LEVER MECHANISM
EICHNER, Jean-Marie	B32B 5/02	WITH OVERLOAD PROTECTION
SAPILEWSKI, Glen	B60R 16/03	(73) Magna Exteriors GmbH
RAMM, Andreas, F.	B60R 16/033	(72) KNAUER, Bernd
KAL, Husam	B62D 25/06	(31) 102020215389
(31) 201762450491 P	B62D 63/08	102020211399
(32) 25.01.2017	H02S 20/00	(32) 04.12.2020
(33) United States of America	H02S 30/00	10.09.2020
(51) B62D 6/00	B32B 1/00	(33) Germany
B62D 1/28	(11) EP3713817	Germany
B62D 15/02	(21) EP18880584.0	(51) B62D 55/108
(11) EP3960588	(47) 11.01.2023	B62D 55/084
(21) EP21193284.3	(87) IB2018059269	(11) EP3871956
(47) 11.01.2023	31.05.2019	(21) EP20205619.8
(22) 26.08.2021	(22) 23.11.2018	(47) 11.01.2023
(54) STEERING SYSTEM	(54) LAMINATE STRUCTURAL PANEL FOR	(22) 04.11.2020
(73) JTEKT Corporation	VEHICLE WITH INTEGRATED SOLAR	(54) CATERPILLAR TRACK
(72) SHOJI, Naoki	POWER GENERATION	(73) CLAAS Industrietechnik GmbH
NAKADE, Tomohiro	(73) Westhill Innovation Inc.	(72) Weingärtner, Felix
FUCHS, Robert	(72) SHERWOOD, Vernon Douglas Steven	Wagemann, Sebastian
(31) 2020145999	SUCCI, Gina	Rackow, Sascha
(32) 31.08.2020	ALAISOWI, Mohammad Hussein	(31) 102020105136
(33) Japan	(31) 201862731348 P	(32) 27.02.2020
(51) B62D 15/02	201762590318 P	(33) Germany
G01D 5/244	(32) 14.09.2018	(51) B62H 5/00
B62D 5/04	23.11.2017	B62J 99/00
G01B 7/30	(33) United States of America	B60R 25/24
(11) EP3919871	United States of America	B62M 6/45

(11) EP3699076	ARAKI, Keizo	(54) DIVING MASK
(21) EP19823757.0	KUBO, Shota	(73) Mares S.p.A.
(47) 11.01.2023	(31) 2018244901	(72) Oelrich, Christof
(87) CN2019086409	(32) 27.12.2018	Angelini, Sergio
16.07.2020	(33) Japan	(31) 201800007897
(22) 10.05.2019	(51) B62K 19/16	(32) 06.08.2018
(54) ELECTRIC VEHICLE	B62K 11/04	(33) Italy
(73) Nine Intelligent (Changzhou) Tech Co., Ltd.	B62J 50/21	(51) B63H 25/42
(72) ZHANG, Shengqiao	B62J 6/24	G05D 1/02
(31) 201920017080 U	(11) EP3533696	B63J 1/00
(32) 07.01.2019	(21) EP17876990.7	B63H 1/00
(33) China	(47) 11.01.2023	B63G 1/00
(51) B62J 1/22	(87) JP2017042940	B63C 1/00
B62J 1/26	07.06.2018	B63H 21/21
(11) EP3755610	(22) 30.11.2017	B63B 49/00
(21) EP19702225.4	(54) LEANING VEHICLE	B63H 25/02
(47) 11.01.2023	(73) Yamaha Hatsudoki Kabushiki Kaisha	(11) EP3874337
(87) EP2019051708	(72) UENO Ryo	(21) EP19808661.3
29.08.2019	CHIBA Akihiro	(47) 11.01.2023
(22) 24.01.2019	(31) 2016234212	(87) US2019058958
(54) BICYCLE SADDLE	(32) 01.12.2016	07.05.2020
(73) Ergon International GmbH	(33) Japan	(22) 30.10.2019
(72) KRAUSE, Andreas	(51) B62M 6/65	(54) ASSISTED DOCKING GRAPHICAL
ARNOLD, Franc	B62J 6/00	USER INTERFACE SYSTEMS AND
(31) 202018000943 U	B62J 6/04	METHODS
(32) 22.02.2018	B62M 6/45	(73) Flir Belgium BVBA
(33) Germany	B62H 5/08	Teledyne Flir, LLC
(51) B62J 6/055	B62H 5/20	(72) RIVERS, Mark
B62J 6/026	(11) EP3762285	HOLDER, Natalie
F21S 41/20	(21) EP19713214.5	HAWKER, Oliver
F21S 41/148	(47) 11.01.2023	JALES, Richard
F21S 43/15	(87) IB2019051617	YEOMANS, Christopher
B60Q 1/04	12.09.2019	RULL, Marcelo
B62J 6/26	(22) 28.02.2019	JOHNSON, Mark
B62J 17/02	(54) DEVICE FOR CONTROLLING A	(31) 201962851025 P
(11) EP3689722	PEDAL-ASSISTED BICYCLE, PEDAL-	201862753763 P
(21) EP18862314.4	ASSISTED BICYCLE AND BIKE	PCT/US2019/017382
(47) 11.01.2023	SHARING SYSTEM	(32) 21.05.2019
(87) JP2018025454	(73) ZEHUS S.p.A.	31.10.2018
04.04.2019	(72) BERRETTA, Daniele	09.02.2019
(22) 05.07.2018	SEGATO, Marcello	(33) United States of America
(54) COMBINATION LIGHT	LISANTI, Paolo	United States of America
(73) Honda Motor Co., Ltd.	(31) 201800003362	World Intellectual Property Office (WIPO)
(72) KOGO Satoshi	201800003359	(51) B64C 1/14
(31) 2017192199	(32) 08.03.2018	E05B 65/10
(32) 29.09.2017	08.03.2018	(11) EP3877252
(33) Japan	(33) Italy	(21) EP19800985.4
(51) B62K 5/10	Italy	(47) 11.01.2023
B62K 5/08	(51) B63B 21/56	(87) EP2019080332
B62J 45/414	B63B 35/68	14.05.2020
B62J 45/412	B63B 21/54	(22) 06.11.2019
B62J 45/40	(11) EP3713831	(54) EMERGENCY OPENING DEVICE FOR
B62K 5/05	(21) EP18811466.4	AN AIRCRAFT DOOR, WITH ROTARY
B62K 21/00	(47) 11.01.2023	RELEASE
B62K 5/027	(87) EP2018081818	(73) Latecoere
(11) EP3889022	23.05.2019	(72) CAPRON, Nicolas
(21) EP19906491.6	(22) 19.11.2018	(31) 1860285
(47) 11.01.2023	(54) TUGBOAT	(32) 08.11.2018
(87) JP2019051353	(73) Svitzer A/S	(33) France
02.07.2020	(72) BANGSLUND, Thomas	(51) B64C 1/14
(22) 27.12.2019	(31) 2017192228	E05B 65/10
(54) LEANING VEHICLE WITH A LEFT-	(32) 20.11.2017	(11) EP3877253
RIGHT PAIR OF WHEELS	(33) United Kingdom	(21) EP19801268.4
(73) YAMAHA HATSUDOKI KABUSHIKI	(51) B63C 11/12	(47) 11.01.2023
KAISHA	(11) EP3608216	(87) EP2019080343
(72) TERADA, Keisuke	(21) EP19189046.6	14.05.2020
UCHIYAMA, Toshifumi	(47) 11.01.2023	(22) 06.11.2019
	(22) 30.07.2019	

(54) EMERGENCY OPENING DEVICE FOR AN AIRCRAFT DOOR, WITH HANDLE RELEASE	(73) Airbus Operations GmbH (72) BENSMANN, Stefan (31) 102017124793 102017004090	(32) 26.05.2017 (33) United States of America
(73) Latecoere (72) CAPRON, Nicolas (31) 1860284 (32) 08.11.2018 (33) France	(32) 24.10.2017 28.04.2017 (33) Germany Germany	(51) B64C 39/02 (11) EP3882145 (21) EP21171630.3 (47) 11.01.2023 (22) 09.08.2018
(51) B64C 3/20 B21D 47/00 (11) EP3798117 (21) EP20193224.1 (47) 11.01.2023 (22) 27.08.2020	(51) B64C 13/04 B64C 13/24 (11) EP3456626 (21) EP17904754.3 (47) 11.01.2023 (87) CN2017113849 11.10.2018 (22) 30.11.2017	(54) THERMAL CONTAINER FOR THE TRANSPORT OF TEMPERATURE-CONTROLLED MATERIAL (73) ABZERO SRL (72) TORTORA, Giuseppe Roberto CANNAS, Andrea (31) 201700092580 (32) 09.08.2017 (33) Italy
(54) REINFORCED SUPERPLASTIC FORMED AND DIFFUSION BONDED STRUCTURES	(54) ELECTRIC PEDAL CONTROL DEVICE FOR AIRCRAFT	(51) B64D 1/22 B64C 27/04 B64D 1/02 B64D 1/08 B66C 1/12 (11) EP3915874 (21) EP21171691.5 (47) 11.01.2023 (22) 26.05.2020
(73) The Boeing Company (72) VASEL, Corey (31) 201916584377 (32) 26.09.2019 (33) United States of America	(73) Commercial Aircraft Corporation Of China, Ltd. Commercial Aircraft Corporation Of China Ltd Shanghai Aircraft Design and Research Institute	(54) AIRCRAFT CAPABLE OF HOVERING AND METHOD FOR TRANSPORTING A LOAD SUSPENDED FROM SUCH AIRCRAFT (73) Leonardo S.p.a. (72) FRANCHI, Filippo IASI, Fabio ROBUSTELLI, Daniele
(51) B64C 3/56 B64C 23/06 (11) EP3560819 (21) EP19165462.3 (47) 11.01.2023 (22) 27.03.2019	(72) XIE, Dianhuang LI, Zhengqiang DAI, Yefei LI, Jian LIAO, Junhui XU, Desheng YU, Shenghui (31) 201710222234 (32) 06.04.2017 (33) China	(72) IMPROVED SECONDARY LOCKING MECHANISM (73) Airbus Operations Limited (72) MORRELL, Paul (31) 201806660 (32) 24.04.2018 (33) United Kingdom
(51) B64C 9/22 (11) EP3676172 (21) EP17779993.9 (47) 11.01.2023 (87) BR2017000106 07.03.2019 (22) 01.09.2017	(51) B64C 21/02 B64C 11/48 F04D 29/68 F04D 19/02 F04D 29/32 B64D 27/00 (11) EP3829975 (21) EP19759655.4 (47) 11.01.2023 (87) FR2019051856 06.02.2020 (22) 26.07.2019	(51) B64D 11/06 B64D 11/00 B60N 2/00 B60N 2/02 (11) EP3371054 (21) EP16715493.9 (47) 11.01.2023 (87) EP2016057450 11.05.2017 (22) 05.04.2016
(54) RETRACTABLE LEADING EDGE WING SLATS HAVING AUTONOMOUSLY CURVABLE AIRFLOW SHIELD FOR NOISE-ABATEMENT	(54) TURBOMACHINE WITH COAXIAL PROPELLERS	(54) AIRCRAFT CABIN MANAGEMENT SYSTEM (73) Zodiac Seats France (72) SIDAMBAROM, Michael OBADIA, Jean-Marc (31) PCT/EP2015/193042 (32) 04.11.2015 (33) World Intellectual Property Office (WIPO)
(73) Embraer S.A. USP - Universidade De São Paulo	(73) SAFRAN AIRCRAFT ENGINES	(51) B64D 15/04 B64D 33/02 F02C 7/047 F16L 5/02 F16L 5/10 F16L 5/14 (11) EP3789302 (21) EP19212404.8 (47) 11.01.2023 (22) 29.11.2019
(72) DOS REIS, Danilo Cafaldo CRENITE SIMOES, Leandro Guilherme DO CARMO, Micael Gianini Valle DA SILVA, Fábio Santos CAPUCHO COELHO, Eduardo Lobão DE MOURA LIMA, Leandro Souza DA SILVA, Paulo Anchieta MARTINI CATALANO, Fernando WAGNER SKALESKI, Cecil KELLER KLUG, Francisco HORI OCHI, Marcus Felipe	(72) DUBOIS, Adrien BINDER, Anthony VION, Laurence, Francine (31) 1857285 (32) 03.08.2018 (33) France	(54) ASSEMBLY FOR SEALING AN ANNULAR GAP BETWEEN AN INNER STRUCTURE AND AN OUTER STRUCTURE (73) Rohr, Inc. (72) KROEGER, Daniel MINER, Jason
(51) B64C 9/22 B64C 9/24 (11) EP3615421 (21) EP18719113.5 (47) 11.01.2023 (87) EP2018059763 01.11.2018 (22) 17.04.2018	(51) B64C 23/02 B64C 21/06 B64D 27/02 (11) EP3406519 (21) EP18174158.8 (47) 11.01.2023 (22) 24.05.2018 (54) DEDICATED FANS FOR BOUNDARY LAYER INGESTION (73) Raytheon Technologies Corporation (72) EPSTEIN, Alan H. SUCIU, Gabriel L. CHANDLER, Jesse M. (31) 201715606051	(54) WING FOR AN AIRCRAFT

(31) 201916564566	B65B 1/36	25.06.2020
(32) 09.09.2019	B65B 3/04	(22) 19.12.2018
(33) United States of America	(11) EP3909866	(54) PASTA PACKAGING MACHINE WITH
(51) B64D 15/22	(21) EP21173223.5	ROTATED REEL ASSEMBLY
(11) EP3620380	(47) 11.01.2023	(73) CYBORGLINE SA
(21) EP19195795.0	(22) 11.05.2021	(72) VEZZANI, Giuseppe
(47) 11.01.2023	(54) FILLING DEVICE, IN PARTICULAR	(51) B65B 43/42
(22) 06.09.2019	FOOD DISPENSING DEVICE, FOR	A61J 1/00
(54) ICE DETECTION SYSTEMS FOR	DOSING A PREDETERMINED WEIGHT	A61J 3/00
AIRCRAFT AND RELATED METHODS	AND / OR VOLUME OF A MATERIAL	A61J 3/02
(73) The Boeing Company	TO BE DOSED, SYSTEM WITH THE	B25J 9/02
(72) MEIS, Charles Steven	DEVICE AND METHOD	B25J 9/12
DARR, Rachel Malia	(73) Ampack GmbH	B65B 1/04
MEIS, Jon	(72) Bischoff, Bernd Konrad	F26B 5/06
(31) 201816125342	Mueller, Detlef	F26B 9/06
(32) 07.09.2018	Schmitt, Wolfgang	B25J 9/10
(33) United States of America	(31) 102020113314	B25J 15/00
(51) B64D 33/02	(32) 15.05.2020	F26B 25/00
E04C 2/34	(33) Germany	B65G 47/90
G10K 11/168	(51) B65B 19/28	(11) EP3442872
G10K 11/172	G05B 19/4061	(21) EP17782002.4
(11) EP3772557	G05B 19/418	(47) 11.01.2023
(21) EP19212449.3	(11) EP3650361	(87) IB2017000576
(47) 11.01.2023	(21) EP19207420.1	19.10.2017
(22) 29.11.2019	(47) 11.01.2023	(22) 12.04.2017
(54) STRUCTURED PANEL WITH NON-	(22) 06.11.2019	(54) METHOD AND APPARATUS FOR
PARALLEL CAVITY WALLS	(54) METHOD FOR DETECTING AND /	LOADING A LYOPHILIZATION SYSTEM
(73) Rohr, Inc.	OR PREVENTING COLLISION	(73) VANRX Pharmsystems Inc.
(72) GURVICH, Mark R.	OF MACHINE ELEMENTS OF A	(72) SENER, John
ZAFIRIS, Georgios S.	PACKAGING MACHINE	PROCYSHYN, Christopher
ANDERSON, Jeffrey A.	(73) Focke & Co. (GmbH & Co. KG)	NAING, Juvenal
KELFORD, Bryce T.	(72) Göhrs, Henrik	(31) 201615097254
KESTLER, Steven M.	(31) 102018008815	(32) 12.04.2016
HOEHN, George	(32) 09.11.2018	(33) United States of America
(31) 201916531753	(33) Germany	(51) B65B 53/06
(32) 05.08.2019	(51) B65B 29/02	B65B 59/00
(33) United States of America	B65B 7/28	(11) EP3863933
(51) B64D 45/00	B65B 51/14	(21) EP19802330.1
B64C 27/00	B65B 51/22	(47) 11.01.2023
(11) EP3309080	B65B 61/28	(87) US2019055610
(21) EP17172646.6	B29C 65/00	16.04.2020
(47) 11.01.2023	B65D 85/804	(22) 10.10.2019
(22) 24.05.2017	B32B 7/12	(54) CENTER DIVIDER FOR SHRINK OVEN
(54) VEHICLE LOAD-LIMITING	B29C 65/18	(73) Illinois Tool Works Inc.
SUSPENSION APPARATUS AND	B29C 65/78	(72) BEESLEY, Robert C.
CONTROL METHODS THEREFOR	(11) EP4017805	DAVIDSON, Mark
(73) The Boeing Company	(21) EP21746557.4	(31) 201916597579
(72) BOLUKBASI, Akif O.	(47) 11.01.2023	201862743805 P
GLEASON, Timothy R.	(87) IB2021055746	(32) 09.10.2019
(31) 201615239294	06.01.2022	10.10.2018
(32) 17.08.2016	(22) 28.06.2021	(33) United States of America
(33) United States of America	(54) APPARATUS AND METHOD FOR	United States of America
(51) B64G 1/24	APPLYING AN ANNULAR BODY	(51) B65C 9/18
B64G 1/26	TO A PERIMETER FLANGE OF A	G09F 3/02
(11) EP3112272	CONTAINER	(11) EP1839293
(21) EP16164707.8	(73) Sarong Societa' Per Azioni	(21) EP06709566.1
(47) 11.01.2023	(72) BARTOLI, Andrea	(47) 11.01.2023
(22) 11.04.2016	CAPITINI, Davide	(87) GB2006000226
(54) EFFICIENT STATIONKEEPING DESIGN	(31) 202000015670	27.07.2006
FOR MIXED FUEL SYSTEMS	(32) 29.06.2020	(22) 23.01.2006
(73) The Boeing Company	(33) Italy	(54) System for applying labels to articles
(72) HO, Yiu-Hung Monte	(51) B65B 41/16	(73) Avery Dennison Corporation
NOEL, Jeffrey Scott	B65H 23/32	(72) WADE, Richard, "Oakwood", The view
(31) 201514753583	B65B 9/20	COOPER, Michael John
(32) 29.06.2015	(11) EP3898426	BARWOOD, Kevin
(33) United States of America	(21) EP18829828.5	(31) 0501369
(51) B65B 1/10	(47) 11.01.2023	(32) 22.01.2005
	(87) EP2018085989	(33) United Kingdom

(51) B65D 5/00	(21) EP20195157.1	CATTANEO, Norberto
B65D 5/28	(47) 11.01.2023	(31) 201900008835
B31B 50/06	(22) 08.09.2020	(32) 13.06.2019
(11) EP3795485	(54) RECYCLABLE CONTAINER AND	(33) Italy
(21) EP20196617.3	LIDDING CONSTRUCTION	(51) B65G 21/18
(47) 11.01.2023	(73) Sonoco Development, Inc.	B65G 17/08
(22) 17.09.2020	(72) Truitt, Mary, Katherine	B65G 33/34
(54) STACKABLE CARDBOARD BOX WITH	(31) 201916687013	(11) EP3294648
SOLID BOTTOM, CARDBOARD BLANK	(32) 18.11.2019	(21) EP16791862.2
AND METHOD FOR OBTAINING A BOX	(33) United States of America	(47) 11.01.2023
FROM A CARDBOARD BLANK	(51) B65G 1/04	(87) CA2016050533
(73) MIBOX	H05K 7/14	17.11.2016
(72) LAYER, Yannick	(11) EP3722231	(22) 09.05.2016
(31) 1910342	(21) EP20176419.8	(54) TAPERED DRIVE BAR APPARATUS
(32) 19.09.2019	(47) 11.01.2023	(73) FPS Food Process Solutions Corporation
(33) France	(22) 15.02.2017	(72) CHANG, Kin Hung Jeffrey
(51) B65D 5/54	(54) ARTICLE TRANSPORT APPARATUS	(31) 201562158992 P
B65D 5/02	(73) Daifuku Co., Ltd.	(32) 08.05.2015
B65D 5/42	(72) UEDA, Yuichi	(33) United States of America
(11) EP3697698	IWATA, Masashige	(51) B65G 21/20
(21) EP18793019.3	EMOTO, Akira	B65G 21/22
(47) 11.01.2023	(31) 2016029209	(11) EP3625154
(87) IB2018057923	(32) 18.02.2016	(21) EP18802606.6
25.04.2019	(33) Japan	(47) 11.01.2023
(22) 12.10.2018	(51) B65G 15/10	(87) US2018033665
(54) WRAP AROUND PACKAGE	B65G 47/244	22.11.2018
(73) Stora Enso Oyj	(11) EP3898461	(22) 21.05.2018
(72) LIBEKS, Girts	(21) EP19829702.0	(54) ADJUSTABLE CONVEYOR BELT
(31) 1751285	(47) 11.01.2023	GUIDERAIL
(32) 17.10.2017	(87) NL2019050857	(73) Span Tech LLC
(33) Sweden	25.06.2020	(72) LAYNE, James, L.
(51) B65D 19/44	(22) 19.12.2019	FYE, Stephen, C.
B65D 85/68	(54) A METHOD OF OPERATING AN	BARBOUR, Scott, Dayton
B65D 19/31	ALIGNMENT STATION FOR SLICES,	COTTON, Aaron
B65D 81/02	AND AN ALIGNMENT STATION FOR	BELL, Savannah
(11) EP3778429	PERFORMING SAID METHOD	(31) 201762550023 P
(21) EP18914920.6	(73) Automotion Systems Venhuizen B.V.	201762508700 P
(47) 11.01.2023	(72) SJERPS, Antonius Ambrosius Jozef	(32) 25.08.2017
(87) JP2018015428	WAGENAAR, Richard Cornelis	19.05.2017
17.10.2019	Theodoris	(33) United States of America
(22) 12.04.2018	(31) 2022278	United States of America
(54) PACKING UNIT FOR AN AIR-	(32) 21.12.2018	(51) B65G 21/22
CONDITIONING APPARATUS	(33) Netherlands	B65G 15/62
(73) Mitsubishi Electric Corporation	(51) B65G 15/34	(11) EP3964458
(72) TSUCHIYA, Hiroki	B65G 43/02	(21) EP21193054.0
SACHIMOTO, Koji	(11) EP3800145	(47) 11.01.2023
KAWAGUCHI, Yohei	(21) EP20193785.1	(22) 25.08.2021
MUKAI, Yusuke	(47) 11.01.2023	(54) SUPPORT STRUCTURE WITH
(51) B65D 43/00	(22) 01.09.2020	IMPROVED STIFFNESS FOR AN
B65D 21/02	(54) SYSTEM FOR TRANSPORTING	ARTICULATED LINK CONVEYOR
B65D 43/16	GOODS	(73) Movex S.p.A.
B65D 43/22	(73) ContiTech Transportbandsysteme GmbH	(72) Sergio, MARSETTI
(11) EP3464099	(72) Wennekamp, Tobias - c/o Continental AG	Matteo, MARSETTI
(21) EP17803172.0	Raffler, Patrick - c/o Continental AG	(31) 202000021139
(47) 11.01.2023	(31) 102019215089	(32) 07.09.2020
(87) SE2017050547	(32) 01.10.2019	(33) Italy
30.11.2017	(33) Germany	(51) B65G 35/06
(22) 23.05.2017	(51) B65G 17/44	B65G 43/10
(54) LID WITH STACKING MEMBERS	B65G 37/00	(11) EP3325382
(73) AR Packaging Systems AB	(11) EP3750833	(21) EP16770673.8
(72) HERLIN, Henrik	(21) EP20179140.7	(47) 11.01.2023
SUNNING, Eva	(47) 11.01.2023	(87) AT2016060013
HOLKA, Simon	(22) 10.06.2020	02.02.2017
(31) 1650707	(54) RUBBERIZED PAD, IN PARTICULAR	(22) 22.07.2016
(32) 23.05.2016	FOR CHAINS FOR HANDLING/LIFTING	(54) METHOD FOR TRANSFERRING A
(33) Sweden	PRODUCTS IN PRODUCT LINES	WORKPIECE CARRIER BETWEEN
(51) B65D 77/20	(73) Regina Catene Calibrate S.p.A.	TWO TOOTHED-BELT CONVEYORS
(11) EP3822193	(72) GARBAGNATI, Carlo	(73) STIWA Holding GmbH

(72) PAUDITZ, Michael SÖSER, Norbert	(11) EP3003942 (21) EP13753666.0 (47) 11.01.2023	(21) EP18780138.6 (47) 11.01.2023
(31) 506582015 (32) 24.07.2015 (33) Austria	(87) EP2013068034 05.03.2015	(87) EP2018077178 09.05.2019
(51) B65G 47/84 B41F 17/00	(22) 30.08.2013 (54) MULTI-DECK ELEVATOR ALLOCATION CONTROL	(22) 05.10.2018 (54) ESCALATOR CONNECTABLE TO AN ELEVATOR
(11) EP3757043 (21) EP19181969.7 (47) 11.01.2023 (22) 24.06.2019	(73) KONE Corporation (72) SORSA, Janne SIIKONEN, Marja-Liisa	(73) INVENTIO AG (72) NOVACEK, Thomas (31) 17199216 (32) 30.10.2017
(54) TRANSFER DEVICE, TRANSPORT SYSTEM AND METHOD FOR REMOVING TUBULAR WORKPIECES FROM A FIRST CONVEYOR AND PUSHING THE TUBULAR WORKPIECES TO A SECOND CONVEYOR	(51) B66B 1/34 (11) EP3628618 (21) EP18196874.4 (47) 11.01.2023 (22) 26.09.2018 (54) ELEVATOR SYSTEM (73) INVENTIO AG	(33) European Patent Office (EPO)
(73) Hinterkopf GmbH (72) Schulz, Josef	(72) SONNENMOSER, Astrid HOSEMANN, Axel ZHU, Zack AKERET, Joel TRAUBER-PICHLER, Marko	(51) B66C 1/36 (11) EP3693321 (21) EP20156053.9 (47) 11.01.2023 (22) 07.02.2020 (54) POSITIVE LOCKING LATCH ASSEMBLY FOR HOOK
(51) B65G 47/84 B65G 21/06 B65G 21/20	(51) B66B 5/16 (11) EP3736238 (21) EP19382352.3 (47) 11.01.2023	(73) The Crosby Group LLC (72) Vencl, Chase (31) 202016783518 201962802273 P (32) 06.02.2020 07.02.2019
(11) EP3565776 (21) EP17791065.0 (47) 11.01.2023 (87) EP2017077394 12.07.2018 (22) 26.10.2017	(54) MOUNTING APPARATUS FOR SAFETY BRAKE (73) Otis Elevator Company (72) DRAPER, James M MUSTAFA, Tanjil SOTOCA, Javier Muñoz	(33) United States of America United States of America
(54) CONTAINER TRANSPORT SYSTEM WITH A REPLACEABLE TRACK ELEMENT	(51) B66B 7/06 D07B 1/16 D07B 1/22 D07B 7/14 F16G 1/12	(51) B66C 13/04 B66C 13/18 B66C 13/40 B66C 13/46 (11) EP3556710 (21) EP19153039.3 (47) 11.01.2023 (22) 22.01.2019 (54) CRANE WITH ARTICULATED ARM (73) FASSI GRU S.p.A. (72) MAFFEIS, Ivan BIROLINI, Valentino SIGNORI, Roberto CERESOLI, Rossano
(73) KHS GmbH (72) MALLITZKI, Nils FAHLDIECK, Andreas	(11) EP3584209 (21) EP19181045.6 (47) 11.01.2023 (22) 18.06.2019 (54) BELT WITH CORRUGATED MATERIAL (73) Otis Elevator Company (72) MOSHER, Daniel A. GUILANI, Brad	(47) 11.01.2023 (22) 20.05.2021 (54) INDUSTRIAL TRUCK (73) Linde Material Handling GmbH (72) Nicolas, Antoine Delmas, Laurent
(31) 102017100092 (32) 04.01.2017 (33) Germany	(31) 201816011171 (32) 18.06.2018 (33) United States of America	(31) 201800004717 (32) 19.04.2018 (33) Italy
(51) B65H 1/14 B65H 3/06	(51) B66B 9/08 (11) EP3481762 (21) EP17749221.2 (47) 11.01.2023 (87) IB2017054101 11.01.2018 (22) 07.07.2017	(51) B66F 9/075 (11) EP3925926 (21) EP21174937.9 (47) 11.01.2023 (22) 20.05.2021
(11) EP3122670 (21) EP15770163.2 (47) 11.01.2023 (87) SE2015050345 01.10.2015 (22) 23.03.2015	(54) A MOBILITY AID DEVICE FOR OVERCOMING A LEVEL DIFFERENCE (73) Teglia, Giovanni (72) Teglia, Giovanni (31) 201600071622 (32) 08.07.2016 (33) Italy	(54) INDUSTRIAL TRUCK WITH A DRIVER PROTECTION ROOF (73) STILL GmbH (72) KOHL, Tobias (31) 102016123807
(54) DEVICE FOR FEEDING PAPERS (73) Plockmatic International AB (72) DAHLQVIST, Patrik	(31) 1450339 (32) 24.03.2014 (33) Sweden	
(51) B65H 45/14 (11) EP3845476 (21) EP20203377.5 (47) 11.01.2023 (22) 22.10.2020	(54) SYSTEM AND METHOD FOR FOLDING PAPER CARRIERS WITH ATTACHED CARDS (73) DMT Solutions Global Corporation (72) SWINFORD, Brad ALLEN, Robert J. (31) 201916731581 (32) 31.12.2019 (33) United States of America	
(51) B66B 1/24	(11) EP3704053	

(32) 08.12.2016	(47) 11.01.2023	(21) EP15736295.5
(33) Germany	(87) FR2019052530	(47) 11.01.2023
(51) B66F 9/22	30.04.2020	(87) EP2015066140
B66F 9/24	(22) 23.10.2019	28.01.2016
(11) EP3663253	(54) REVERSIBLE MICROFLUIDIC CHIP	(22) 15.07.2015
(21) EP19212025.1	(73) Institut National des Sciences Appliquées	(54) DECORATIVE GLASS PANEL
(47) 11.01.2023	de Toulouse	(73) AGC Glass Europe
(22) 28.11.2019	Centre national de la recherche	(72) DUMONT, Jacques
(54) ELECTRICALLY OPERATED	scientifique	DEPAUW, Jean-Michel
INDUSTRIAL TRUCK	(72) RAFFY, Simon	(31) 14178596
(73) STILL GmbH	RESSIER, Laurence	(32) 25.07.2014
(72) HÜBNER, Rainer	PALLEAU, Etienne	(33) European Patent Office (EPO)
(31) 102018131384	(31) 1859900	(51) C03C 25/10
(32) 07.12.2018	(32) 26.10.2018	C03C 25/26
(33) Germany	(33) France	C03C 25/321
(51) B66F 9/22	(51) C01B 3/02	D04H 1/4209
F15B 21/045	C01B 3/34	D04H 1/4218
F15B 21/0427	C01C 1/04	D04H 1/64
(11) EP3674252	C07C 5/48	D04H 3/004
(21) EP19212033.5	F04D 17/10	D04H 3/002
(47) 11.01.2023	F04D 21/00	B29C 70/08
(22) 28.11.2019	(11) EP3908550	(11) EP3621933
(54) METHOD FOR OPERATING A	(21) EP20710819.2	(21) EP17808797.9
HYDRAULIC SYSTEM OF AN	(47) 11.01.2023	(47) 11.01.2023
INDUSTRIAL TRUCK	(87) EP2020055264	(87) EP2017079088
(73) STILL GmbH	01.10.2020	15.11.2018
(72) BULLERMANN, Björn	(22) 28.02.2020	(22) 13.11.2017
SCHAUER, Sebastian	(54) METHOD FOR GENERATING A GAS-	(54) A METHOD OF MANUFACTURING A
SIEMERING, Niko	PRODUCT	MOULDED MINERAL WOOL PRODUCT
(31) 102018133098	(73) Siemens Energy Global GmbH & Co. KG	AND A PRODUCT OF SUCH KIND
(32) 20.12.2018	(72) AHMAD, Suhel	(73) ROCKWOOL A/S
(33) Germany	MÖNK, Thomas	(72) HJELMGAARD, Thomas
(51) B67D 7/02	(31) 19165464	RAMSING, Kenneth
B67D 7/52	(32) 27.03.2019	CHRISTENSEN, Kenn
B67D 7/48	(33) European Patent Office (EPO)	KARALLUS, Sascha
(11) EP3974374	(51) C02F 3/00	SØRENSEN, Jens, Jørren
(21) EP20198851.6	C02F 3/02	VAN DER EERDEN, Frederik Johannes
(47) 11.01.2023	F23K 1/04	Maria
(22) 29.09.2020	F23G 5/04	KRAGLUND, Arne
(54) DISPENSING NOZZLE PISTOL WITH	F23G 5/30	(31) PCT/EP2017/061419
SWITCH BETWEEN TWO MAXIMUM	F23G 5/40	PCT/EP2017/061418
FLOW RATES	B01D 1/04	(32) 11.05.2017
(73) ELAFLEX HIBY GmbH & Co. KG	B01D 1/22	11.05.2017
(72) KUNTER, Stefan	C02F 1/00	(33) World Intellectual Property Office (WIPO)
VIETS, Sebastian	C02F 1/04	World Intellectual Property Office (WIPO)
(51) B67D 7/36	C02F 1/20	(51) C03C 25/10
(11) EP3464165	C02F 1/28	C03C 25/26
(21) EP17722744.4	C02F 1/44	C03C 25/321
(47) 11.01.2023	C02F 9/00	D04H 1/4218
(87) EP2017061018	C02F 11/06	D04H 1/4209
30.11.2017	C02F 11/12	D04H 1/64
(22) 09.05.2017	F01K 17/06	(11) EP3621934
(54) SYSTEM AND METHOD FOR	F01K 25/04	(21) EP17808798.7
DISPENSING LIQUID FROM A TANKER	F22B 31/00	(47) 11.01.2023
(73) Saeta GmbH & Co. KG	F01K 17/04	(87) EP2017079090
(72) HAAR, Thomas	(11) EP3733615	15.11.2018
(31) 102016109436	(21) EP20158799.5	(22) 13.11.2017
(32) 23.05.2016	(47) 11.01.2023	(54) A FIRE-PROTECTING INSULATION
(33) Germany	(22) 09.11.2015	PRODUCT AND USE OF SUCH
(51) B81C 99/00	(54) MULTIFUNCTIONAL WET WASTE	PRODUCT
B32B 7/02	PROCESSING SYSTEM	(73) ROCKWOOL A/S
B32B 27/38	(73) Bill&Melinda Gates Foundation	(72) HJELMGAARD, Thomas
B01L 3/00	(72) JANICKI, Peter	TIELEMANN, Thomas
B29C 65/76	(31) 201414542521	(31) PCT/EP2017/061419
B29C 39/00	(32) 14.11.2014	PCT/EP2017/061418
(11) EP3870368	(33) United States of America	(32) 11.05.2017
(21) EP19813100.5	(51) C03C 17/36	11.05.2017
	(11) EP3172175	(33) World Intellectual Property Office (WIPO)

World Intellectual Property Office (WIPO)	Boutwell, Brett Allen	(72) NIEUWOUDT, Josias Jakobus
(51) C04B 26/26	Subit, Jessica L.	BRUNNER, Bernhard
E01C 7/18	(31) 642295	REINING, Sven
C04B 103/00	230258 P	STORK, Timon
C04B 111/00	(32) 18.12.2009	KAIBEL, Bjoern
(11) EP3831794	31.07.2009	ZIPP, Alexander
(21) EP19827481.3	(33) United States of America	BEY, Oliver
(47) 11.01.2023	United States of America	(31) 18206006
(87) ES2019070432	(51) C05D 9/02	(32) 13.11.2018
02.01.2020	C05G 3/00	(33) European Patent Office (EPO)
(22) 21.06.2019	C05G 5/23	(51) C07C 51/235
(54) ASPHALT PAVEMENTS HAVING HIGH SOLAR REFLECTANCE	C05G 5/27	(11) EP3822248
(73) CHM Obras e Infraestructuras S.A.	(11) EP3233760	(21) EP20154275.0
(72) SIMÓN GRAU, José	(21) EP15817293.2	(47) 11.01.2023
(31) 201830642	(47) 11.01.2023	(22) 29.01.2020
(32) 27.06.2018	(87) EP2015080670	(54) PROCESSES FOR PREPARING ALDARIC, ALDONIC, AND URONIC ACIDS
(33) Spain	23.06.2016	(73) Archer Daniels Midland Company
(51) C04B 35/18	(22) 18.12.2015	(72) Albrecht, Karl O.
C04B 35/19	(54) PROCESS FOR PREPARING A SULPHUR-CONTAINING SOIL IMPROVER	Brazdil, James F.
C04B 38/00	(73) Shell Internationale Research Maatschappij B.V.	(31) 201962936861 P
A01G 27/00	(72) ALLAIS, Cyrille Paul	(32) 18.11.2019
A01G 29/00	(31) 14199219	(33) United States of America
(11) EP2619155	(32) 19.12.2014	(51) C07C 69/753
(21) EP10769016.6	(33) European Patent Office (EPO)	C07C 67/38
(47) 11.01.2023	(51) C07C 29/10	C07B 61/00
(87) FR2010051981	C07C 41/48	C07C 51/58
29.03.2012	C07C 45/51	(11) EP3882233
(22) 22.09.2010	C07C 67/08	(21) EP19884807.9
(54) METHOD FOR MAKING A POROUS CERAMIC ELEMENT FOR DIFFUSING A LIQUID	C07C 47/277	(47) 11.01.2023
(73) Exel Industries	C07C 33/025	(87) JP2019043662
(72) BRAULT, Benoît, Serge, Claude	C07C 43/303	22.05.2020
(51) C04B 35/486	C07C 69/145	(22) 07.11.2019
C04B 35/626	(11) EP3885334	(54) CARBOXYLIC ACID ESTER COMPOUND, PRODUCTION METHOD THEREOF, AND FRAGRANCE COMPOSITION
C01G 25/00	(21) EP21164269.9	(73) MITSUBISHI GAS CHEMICAL COMPANY, INC.
H01M 8/126	(47) 11.01.2023	(72) MATSUURA, Yutaka
(11) EP3521263	(22) 23.03.2021	UTAMURA, Tatsuya
(21) EP17856401.9	(54) PROCESS FOR PREPARING A FORMYLALKENYL ALKOXYMETHYL ETHER COMPOUND AND PROCESSES FOR PREPARING CONJUGATED DIENE COMPOUNDS FROM THE SAME	HAKAMATA, Tomohiko
(47) 11.01.2023	(73) Shin-Etsu Chemical Co., Ltd.	(31) 2018216004
(87) JP2017035374	(72) MIYAKE, Yuki	(32) 16.11.2018
05.04.2018	KINSHO, Takeshi	(33) Japan
(22) 29.09.2017	YAMASHITA, Miyoshi	(51) C07C 227/18
(54) CERIUM-OXIDE-STABILIZED ZIRCONIUM-OXIDE-BASED COMPOSITION, AND METHOD FOR PRODUCING SAME	(31) 2020059025	C07C 229/16
(73) Kyushu University, National University Corporation	(32) 27.03.2020	B01J 21/06
Daiichi Kigenso Kagaku Kogyo Co., Ltd.	(33) Japan	B01J 21/08
(72) SHIRATORI, Yusuke	(51) C07C 45/74	B01J 27/10
TAMAZAKI, Fuminori	C07C 49/203	B01J 27/135
YAMAMOTO, Takuya	B01J 4/00	(11) EP3835286
(31) 2016193162	B01J 14/00	(21) EP19877540.5
(32) 30.09.2016	B01J 19/00	(47) 11.01.2023
(33) Japan	B01J 19/24	(87) CN2019073688
(51) C04B 41/89	(11) EP3880638	06.08.2020
F01D 5/28	(21) EP19801346.8	(22) 29.01.2019
(11) EP2287133	(47) 11.01.2023	(54) HYDROLYSIS METHOD OF TERT-BUTYL ESTER USED IN GADOLINIUM CONTRAST AGENT
(21) EP10171468.1	(87) EP2019081125	(73) Hubei Tianshu Pharmaceutical Co., Ltd
(47) 11.01.2023	22.05.2020	(72) ZHANG, Zhihua
(22) 30.07.2010	(22) 13.11.2019	LIU, Yunlong
(54) Methods for making water based environmental barrier coatings using sintering aids	(54) APPARATUS FOR AND PROCESS OF MAKING PSEUDOIONONE AND HYDROXYPSEUDOIONONE	(31) 201910078756
(73) General Electric Company	(73) BASF SE	(32) 28.01.2019
(72) Kirby, Glen Harold		(33) China
		(51) C07C 303/44

C07C 303/06	(54) MANUFACTURING PROCESS FOR	(33) Poland
C07C 309/04	AMIFAMPRIDINE PHOSPHATE	(51) C07D 279/02
B01D 3/10	(73) Alfred E. Tiefenbacher (GmbH & Co. KG)	C07D 417/04
(11) EP3634597	(72) Staver, Ruslan	C07D 291/08
(21) EP18799183.1	Dr. Michaelis, Simon	C07D 285/36
(47) 11.01.2023	(51) C07D 233/86	C07D 409/14
(87) US2018031466	A61K 31/4164	C07D 403/10
15.11.2018	(11) EP3307717	C07D 251/22
(22) 08.05.2018	(21) EP16807929.1	C07D 333/76
(54) PROCESSES AND SYSTEMS FOR	(47) 11.01.2023	C07D 239/28
RECOVERING METHANESULFONIC	(87) SG2016050267	C07D 239/42
ACID IN PURIFIED FORM	15.12.2016	C07D 403/12
(73) Arkema Inc.	(22) 08.06.2016	C07D 209/10
(72) MILLER, Jay F.	(54) A NOVEL PROCESS FOR PREPARING	C07F 9/6584
SMITH, Gary S.	ENZALUTAMIDE	H01L 51/00
FORTMAN, George C.	(73) ScinoPharm Taiwan, Ltd.	H01L 51/50
SRINIVAS, Vijay R.	(72) LIAO, Yuan-Xiu	(11) EP3877373
(31) 201762504577 P	GUO, Jiunn-Cheh	(21) EP19800961.5
(32) 11.05.2017	SHIH, Wen-Li	(47) 11.01.2023
(33) United States of America	CHEN, Shang-Hong	(87) EP2019080039
(51) C07D 213/71	(31) 201562173814 P	14.05.2020
C07D 213/79	(32) 10.06.2015	(22) 04.11.2019
C07D 215/36	(33) United States of America	(54) 5,6-DIPHENYL-5,6-DIHYDRO-
C07D 217/02	(51) C07D 241/24	DIBENZ[C,E][1,2]AZAPHOSPHORINE
C07D 333/62	(11) EP3882236	AND 6-PHENYL-6H-DIBENZO[C,E]
C07C 311/14	(21) EP21170330.1	[1,2]THIAZINE-5,5-DIOXIDE
C07C 311/21	(47) 11.01.2023	DERIVATIVES AND RELATED
C07C 311/29	(22) 08.11.2016	COMPOUNDS AS ORGANIC
C07D 401/12	(54) PRODUCTION METHOD FOR 2,5-	ELECTROLUMINESCENT MATERIALS
C07C 317/12	DICYANO-3,6-DIHALOGENOPYRAZINE	FOR OLEDs
C07C 317/14	(73) Kyushu University National University	(73) Merck Patent GmbH
C07D 405/12	Corporation	(72) PARHAM, Amir
C07D 409/12	Nippon Soda Co., Ltd.	ENGELHART, Jens
C07D 241/44	(72) Yasuda, Takuma	EICKHOFF, Christian
C07D 417/12	Park, In Seob	EHRENREICH, Christian
C07D 271/12	Yang, Yu Seok	KROEBER, Jonas
C07D 209/08	Sumiya, Hiroshi	(31) 18204542
C07D 513/04	Fukushima, Yukio	(32) 06.11.2018
C07D 307/79	(31) 2015242690	(33) European Patent Office (EPO)
C07D 307/82	2015220371	(51) C07D 311/16
(11) EP3898588	(32) 11.12.2015	G01N 33/533
(21) EP19827745.1	10.11.2015	(11) EP3553054
(47) 11.01.2023	(33) Japan	(21) EP18398004.4
(87) EP2019086662	Japan	(47) 11.01.2023
25.06.2020	(51) C07D 249/06	(22) 13.04.2018
(22) 20.12.2019	A61P 31/04	(54) FLUORESCENT COUMARIN
(54) DISUBSTITUTED ALKYNE	A61P 35/00	COMPOUNDS AND METHOD OF
DERIVATIVES	A61K 31/4192	SYNTHESIS THEREOF
(73) Merck Patent GmbH	(11) EP3790868	(73) Universidade de Évora
Ryvu Therapeutics S.A.	(21) EP18786433.5	(72) Pereira, António Manuel Deométrio
(72) HEINRICH, Timo	(47) 11.01.2023	Rodrigues Lourenço
PETERSSON, Carl	(87) PL2018000080	Martins, Sérgio Miguel Amaral
KRIER, Mireille	26.12.2019	Caldeira, Ana Teresa Fialho Caeiro
GONDELA, Andrzej	(22) 20.08.2018	Candeias, António José Estevão Grande
GALEZOWSKI, Michal Mikolaj	(54) SULFAMATE DERIVATIVES OF 4-(1-	(51) C07D 401/14
FABRITIUS, Charles-Henry Robert Yves	PHENYL-1H-[1,2,3]TRIAZOL-4-YL)-	C07D 413/14
NOWAK, Mateusz Oktawian	PHENOL, DERIVATIVES OF 4-(1-	C07D 417/14
KROL, Marcin	PHENYL-1H-[1,2,3]TRIAZOL-4-YL)-	A61K 31/4192
(31) 18461654	PHENOL, THEIR MEDICAL USE AND	A61P 35/00
(32) 21.12.2018	THE METHOD OF OBTAINING 4-(1-	(11) EP3728224
(33) European Patent Office (EPO)	PHENYL-1H-[1,2,3]TRIAZOL-4-YL)-	(21) EP18830682.3
(51) C07D 213/73	PHENYL SULFAMATE DERIVATIVES	(47) 11.01.2023
A61K 31/44	(73) Politechnika Gdanska	(87) US2018066123
A61P 21/00	(72) DEMKOWICZ, Sebastian	27.06.2019
(11) EP3696169	DASKO, Mateusz	(22) 18.12.2018
(21) EP19170177.0	RACHON, Janusz	(54) CYCLOHEXYL ACID TRIAZOLE
(47) 11.01.2023	(31) 42597018	AZOLES AS LPA ANTAGONISTS
(22) 18.04.2019	(32) 18.06.2018	(73) Bristol-Myers Squibb Company

(72) SHI, Yan CHENG, Peter Tai Wah WANG, Ying LI, Jun FANG, Tianan CORTE, James R. SHI, Jun ZHANG, Hao KENNEDY, Lawrence J. TAO, Shiwei (31) 201762607488 P (32) 19.12.2017 (33) United States of America	(87) JP2018038383 02.05.2019 (22) 15.10.2018 (54) EPOXY-OXETANE COMPOUND, METHOD FOR SYNTHESIZING SAME, AND USE OF SAID COMPOUND (73) Shikoku Chemicals Corporation (72) AOKI, Kazunori OKUMURA, Naoto KASHIWABARA, Takashi ARAKI, Yusuke OTSUKA, Akihito KUMANO, Takeshi (31) 2018175778 2017204824 (32) 20.09.2018 23.10.2017 (33) Japan Japan	United States of America <hr/> (51) C07D 417/12 A61K 31/4402 A61P 31/22 (11) EP3848369 (21) EP21157420.7 (47) 11.01.2023 (22) 28.11.2017 (54) N-[5-(AMINOSULFONYL)-4- METHYL-1,3-THIAZOL-2-YL]-N- METHYL-2-[4-(2-PYRIDINYL)- PHENYL]-ACETAMIDE FREE BASE HEMIHYDRATE, METHODS OF MANUFACTURE AND USES THEREOF (73) AiCuris GmbH & Co. KG (72) BACHHAV, Yogeshwar SCHWAB, Wilfried BIRKMANN, Alexander VOEGTLI, Kurt (31) 16200967 (32) 28.11.2016 (33) European Patent Office (EPO) <hr/> (51) C07D 473/24 A61P 31/12 A61K 31/522 (11) EP3752505 (21) EP19706916.4 (47) 11.01.2023 (87) EP2019053232 15.08.2019 (22) 11.02.2019 (54) NOVEL SULFONE COMPOUNDS AND DERIVATIVES FOR THE TREATMENT AND PROPHYLAXIS OF VIRUS INFECTION (73) F. Hoffmann-La Roche AG (72) LIANG, Chungeng MIAO, Kun WANG, Jianping YUN, Hongying (31) PCT/CN2018/076525 (32) 12.02.2018 (33) World Intellectual Property Office (WIPO) <hr/> (51) C07D 487/04 A61P 25/16 A61K 31/4196 (11) EP3694858 (21) EP18785936.8 (47) 11.01.2023 (87) EP2018077656 18.04.2019 (22) 10.10.2018 (54) BICYCLIC COMPOUNDS FOR USE AS RIP1 KINASE INHIBITORS (73) F. Hoffmann-La Roche AG (72) CHEN, Huifen HAMILTON, Gregory PATEL, Snahel ZHAO, Guiling DANIELS, Blake STIVALA, Craig (31) 201762570892 P (32) 11.10.2017 (33) United States of America <hr/> (51) C07D 495/04 A61P 31/12 A61K 31/4365 (11) EP3810613
(31) 201762607488 P (32) 19.12.2017 (33) United States of America	(31) 2018175778 2017204824 (32) 20.09.2018 23.10.2017 (33) Japan Japan	(31) 16200967 (32) 28.11.2016 (33) European Patent Office (EPO) <hr/> (51) C07D 473/24 A61P 31/12 A61K 31/522 (11) EP3752505 (21) EP19706916.4 (47) 11.01.2023 (87) EP2019053232 15.08.2019 (22) 11.02.2019 (54) NOVEL SULFONE COMPOUNDS AND DERIVATIVES FOR THE TREATMENT AND PROPHYLAXIS OF VIRUS INFECTION (73) F. Hoffmann-La Roche AG (72) LIANG, Chungeng MIAO, Kun WANG, Jianping YUN, Hongying (31) PCT/CN2018/076525 (32) 12.02.2018 (33) World Intellectual Property Office (WIPO) <hr/> (51) C07D 487/04 A61P 25/16 A61K 31/4196 (11) EP3694858 (21) EP18785936.8 (47) 11.01.2023 (87) EP2018077656 18.04.2019 (22) 10.10.2018 (54) BICYCLIC COMPOUNDS FOR USE AS RIP1 KINASE INHIBITORS (73) F. Hoffmann-La Roche AG (72) CHEN, Huifen HAMILTON, Gregory PATEL, Snahel ZHAO, Guiling DANIELS, Blake STIVALA, Craig (31) 201762570892 P (32) 11.10.2017 (33) United States of America <hr/> (51) C07D 495/04 A61P 31/12 A61K 31/4365 (11) EP3810613
(11) EP3740483 (21) EP19706791.1 (47) 11.01.2023 (87) US2019013785 25.07.2019 (22) 16.01.2019 (54) QUINOXALINONE COMPOUNDS, COMPOSITIONS, METHODS, AND KITS FOR INCREASING GENOME EDITING EFFICIENCY (73) Vertex Pharmaceuticals Incorporated (72) MAHAJAN, Sudipta WEINBERG, Marc, Saul D'ASTOLFO, Diego, Sebastian COTTRELL, Kevin, M. MORRIS, Mark, A. MAXWELL, John, Patrick (31) 201862618385 P (32) 17.01.2018 (33) United States of America	(51) C07D 413/12 C07D 271/06 A61P 9/00 A61K 31/4245 (11) EP3814343 (21) EP19737445.7 (47) 11.01.2023 (87) US2019038908 02.01.2020 (22) 25.06.2019 (54) CARDIAC SARCOMERE INHIBITORS (73) Cytokinetics, Inc. (72) MORGAN, Bradley P. VANDERWAL, Mark CHUANG, Chihyuan (31) 201862690249 P (32) 26.06.2018 (33) United States of America	(31) 16200967 (32) 28.11.2016 (33) European Patent Office (EPO) <hr/> (51) C07D 473/24 A61P 31/12 A61K 31/522 (11) EP3752505 (21) EP19706916.4 (47) 11.01.2023 (87) EP2019053232 15.08.2019 (22) 11.02.2019 (54) NOVEL SULFONE COMPOUNDS AND DERIVATIVES FOR THE TREATMENT AND PROPHYLAXIS OF VIRUS INFECTION (73) F. Hoffmann-La Roche AG (72) LIANG, Chungeng MIAO, Kun WANG, Jianping YUN, Hongying (31) PCT/CN2018/076525 (32) 12.02.2018 (33) World Intellectual Property Office (WIPO) <hr/> (51) C07D 487/04 A61P 25/16 A61K 31/4196 (11) EP3694858 (21) EP18785936.8 (47) 11.01.2023 (87) EP2018077656 18.04.2019 (22) 10.10.2018 (54) BICYCLIC COMPOUNDS FOR USE AS RIP1 KINASE INHIBITORS (73) F. Hoffmann-La Roche AG (72) CHEN, Huifen HAMILTON, Gregory PATEL, Snahel ZHAO, Guiling DANIELS, Blake STIVALA, Craig (31) 201762570892 P (32) 11.10.2017 (33) United States of America <hr/> (51) C07D 495/04 A61P 31/12 A61K 31/4365 (11) EP3810613
(51) C07D 403/12 C07D 405/14 C07D 241/44 C07D 491/048 C07D 498/08 C12N 15/00 (11) EP3740483 (21) EP19706791.1 (47) 11.01.2023 (87) US2019013785 25.07.2019 (22) 16.01.2019 (54) QUINOXALINONE COMPOUNDS, COMPOSITIONS, METHODS, AND KITS FOR INCREASING GENOME EDITING EFFICIENCY (73) Vertex Pharmaceuticals Incorporated (72) MAHAJAN, Sudipta WEINBERG, Marc, Saul D'ASTOLFO, Diego, Sebastian COTTRELL, Kevin, M. MORRIS, Mark, A. MAXWELL, John, Patrick (31) 201862618385 P (32) 17.01.2018 (33) United States of America	(31) 2018175778 2017204824 (32) 20.09.2018 23.10.2017 (33) Japan Japan	(31) 16200967 (32) 28.11.2016 (33) European Patent Office (EPO) <hr/> (51) C07D 473/24 A61P 31/12 A61K 31/522 (11) EP3752505 (21) EP19706916.4 (47) 11.01.2023 (87) EP2019053232 15.08.2019 (22) 11.02.2019 (54) NOVEL SULFONE COMPOUNDS AND DERIVATIVES FOR THE TREATMENT AND PROPHYLAXIS OF VIRUS INFECTION (73) F. Hoffmann-La Roche AG (72) LIANG, Chungeng MIAO, Kun WANG, Jianping YUN, Hongying (31) PCT/CN2018/076525 (32) 12.02.2018 (33) World Intellectual Property Office (WIPO) <hr/> (51) C07D 487/04 A61P 25/16 A61K 31/4196 (11) EP3694858 (21) EP18785936.8 (47) 11.01.2023 (87) EP2018077656 18.04.2019 (22) 10.10.2018 (54) BICYCLIC COMPOUNDS FOR USE AS RIP1 KINASE INHIBITORS (73) F. Hoffmann-La Roche AG (72) CHEN, Huifen HAMILTON, Gregory PATEL, Snahel ZHAO, Guiling DANIELS, Blake STIVALA, Craig (31) 201762570892 P (32) 11.10.2017 (33) United States of America <hr/> (51) C07D 495/04 A61P 31/12 A61K 31/4365 (11) EP3810613
(51) C07D 403/14 H01L 51/00 (11) EP3184522 (21) EP16205894.5 (47) 11.01.2023 (22) 21.12.2016 (54) CONDENSED CYCLIC COMPOUND, COMPOSITION INCLUDING THE CONDENSED CYCLIC COMPOUND, ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE CONDENSED CYCLIC COMPOUND, AND METHOD OF MANUFACTURING THE ORGANIC LIGHT-EMITTING DEVICE (73) Samsung Electronics Co., Ltd. (72) KATO, Fumiaki INAYAMA, Satoshi ISHII, Norihito SHIBATA, Katsunori ITO, Mitsunori (31) 2015250531 (32) 22.12.2015 (33) Japan	(51) C07D 417/06 C07D 417/14 C07D 495/04 A61P 25/28 A61K 31/427 A61K 31/445 (11) EP3765458 (21) EP19713945.4 (47) 11.01.2023 (87) US2019021995 19.09.2019 (22) 13.03.2019 (54) O-GLYCOPROTEIN-2-ACETAMIDO-2- DEOXY-3-D-GLYCOPYRANOSIDASE INHIBITORS (73) Biogen MA Inc. (72) GENUNG, Nathan GUCKIAN, Kevin M. VESSELS, Jeffrey ZHANG, Lei GIANATASSIO, Ryan LIN, Edward Yin Shiang XIN, Zhili (31) 201862699443 P 201862690536 P 201862642932 P (32) 17.07.2018 27.06.2018 14.03.2018 (33) United States of America United States of America	(31) 16200967 (32) 28.11.2016 (33) European Patent Office (EPO) <hr/> (51) C07D 473/24 A61P 31/12 A61K 31/522 (11) EP3752505 (21) EP19706916.4 (47) 11.01.2023 (87) EP2019053232 15.08.2019 (22) 11.02.2019 (54) NOVEL SULFONE COMPOUNDS AND DERIVATIVES FOR THE TREATMENT AND PROPHYLAXIS OF VIRUS INFECTION (73) F. Hoffmann-La Roche AG (72) LIANG, Chungeng MIAO, Kun WANG, Jianping YUN, Hongying (31) PCT/CN2018/076525 (32) 12.02.2018 (33) World Intellectual Property Office (WIPO) <hr/> (51) C07D 487/04 A61P 25/16 A61K 31/4196 (11) EP3694858 (21) EP18785936.8 (47) 11.01.2023 (87) EP2018077656 18.04.2019 (22) 10.10.2018 (54) BICYCLIC COMPOUNDS FOR USE AS RIP1 KINASE INHIBITORS (73) F. Hoffmann-La Roche AG (72) CHEN, Huifen HAMILTON, Gregory PATEL, Snahel ZHAO, Guiling DANIELS, Blake STIVALA, Craig (31) 201762570892 P (32) 11.10.2017 (33) United States of America <hr/> (51) C07D 495/04 A61P 31/12 A61K 31/4365 (11) EP3810613
(51) C07D 407/14 C08G 59/24 C08G 65/18 (11) EP3702356 (21) EP18871251.7 (47) 11.01.2023	(31) 201862699443 P 201862690536 P 201862642932 P (32) 17.07.2018 27.06.2018 14.03.2018 (33) United States of America United States of America	(31) 16200967 (32) 28.11.2016 (33) European Patent Office (EPO) <hr/> (51) C07D 473/24 A61P 31/12 A61K 31/522 (11) EP3752505 (21) EP19706916.4 (47) 11.01.2023 (87) EP2019053232 15.08.2019 (22) 11.02.2019 (54) NOVEL SULFONE COMPOUNDS AND DERIVATIVES FOR THE TREATMENT AND PROPHYLAXIS OF VIRUS INFECTION (73) F. Hoffmann-La Roche AG (72) LIANG, Chungeng MIAO, Kun WANG, Jianping YUN, Hongying (31) PCT/CN2018/076525 (32) 12.02.2018 (33) World Intellectual Property Office (WIPO) <hr/> (51) C07D 487/04 A61P 25/16 A61K 31/4196 (11) EP3694858 (21) EP18785936.8 (47) 11.01.2023 (87) EP2018077656 18.04.2019 (22) 10.10.2018 (54) BICYCLIC COMPOUNDS FOR USE AS RIP1 KINASE INHIBITORS (73) F. Hoffmann-La Roche AG (72) CHEN, Huifen HAMILTON, Gregory PATEL, Snahel ZHAO, Guiling DANIELS, Blake STIVALA, Craig (31) 201762570892 P (32) 11.10.2017 (33) United States of America <hr/> (51) C07D 495/04 A61P 31/12 A61K 31/4365 (11) EP3810613

(21) EP19762467.9	(33) United States of America	(47) 11.01.2023
(47) 11.01.2023	(51) C07F 7/18	(87) EP2020054542
(87) IB2019055121	C07B 51/00	27.08.2020
26.12.2019	C07K 1/06	(22) 20.02.2020
(22) 18.06.2019	(11) EP3342777	(54) METHOD FOR PREPARATION OF
(54) N-SUBSTITUTED	(21) EP16841682.4	FLUORO ALKYLATED COMPOUNDS
TETRAHYDROTHIENOPYRIDINE	(47) 11.01.2023	BY HOMOGENEOUS NI CATALYSIS
DERIVATIVES AND USES THEREOF	(87) JP2016074888	(73) Arxada AG
(73) Novartis AG	09.03.2017	(72) TAESCHLER, Christoph
(72) KOUNDE, Cyrille	(22) 25.08.2016	ELLINGER, Stefan
SIM, Wei Lin Sandra	(54) BENZYL COMPOUND	ZARAGOZA DOERWALD, Florencio
SIMON, Oliver	(73) Sekisui Medical Co., Ltd.	BELLER, Matthias
WANG, Gang	(72) YANO, Shinya	NEUMANN, Helfried
YEO, Hui Quan	WAKASUGI, Yuki	FISCHER, Florian
YEUNG, Bryan KS	IWANAGA, Yosuke	ZHANG, Shaoke
YOKOKAWA, Fumiaki	(31) 2016124192	ROTTA-LORIA, Nicolas
ZOU, Bin	2015227234	(31) 201962807899 P
(31) 201862687068 P	2015168711	19158332
(32) 19.06.2018	(32) 23.06.2016	(32) 20.02.2019
(33) United States of America	20.11.2015	20.02.2019
(51) C07D 498/10	28.08.2015	(33) United States of America
C07D 498/20	(33) Japan	European Patent Office (EPO)
A61P 35/00	Japan	(51) C07H 1/06
A61K 31/553	Japan	C07H 17/08
C07D 498/22	(51) C07F 9/06	(11) EP3837269
(11) EP3762393	C08K 5/5399	(21) EP19758922.9
(21) EP19714512.1	C08L 71/02	(47) 11.01.2023
(47) 11.01.2023	(11) EP3763721	(87) EP2019071900
(87) US2019020492	(21) EP19765066.6	20.02.2020
12.09.2019	(47) 11.01.2023	(22) 15.08.2019
(22) 04.03.2019	(87) JP2019008673	(54) NOVEL EPOXIDE POLYENE
(54) ALPHA-HYDROXY PHENYLACETIC	12.09.2019	AMPHOTERIC MACROLIDE AND
ACID PHARMACOPHORE OR	(22) 05.03.2019	PROCESS FOR PURIFYING
BIOISOSTERE MCL-1 PROTEIN	(54) DIVALENT PHOSPHAZENIUM	NATAMYCIN
ANTAGONISTS	SALT AND POLYALKYLENE OXIDE	(73) DSM IP Assets B.V.
(73) Amgen Inc.	COMPOSITION CONTAINING SAME,	(72) DUCHATEAU, Alexander Lucia
(72) RESCOURIO, Gwenaella	AND POLYURETHANE-FORMING	Leonardus
GONZALEZ BUENROSTRO, Ana	COMPOSITION CONTAINING	LANKHORST, Peter Philip
BROWN, Sean P.	SAID POLYALKYLENE OXIDE	VAN SCHEPPINGEN, Willebrordus
LIZARZABURU, Mike	COMPOSITION	Bernardus
MEDINA, Julio C.	(73) Tosoh Corporation	(31) 18189250
JABRI, Salman Yojiro	(72) INOUE, Yoshiaki	(32) 16.08.2018
SUN, Daqing	YAMAMOTO, Toshihide	(33) European Patent Office (EPO)
SIMONOVICH, Scott Preston	MORI, Katsuaki	(51) C07H 19/06
YAN, Xuelei	(31) 2018057789	C07H 19/10
LI, Yihong	2018057788	A61K 31/7068
REW, Yosup	2018053366	A61P 35/00
(31) 201862638846 P	2018041180	C07H 1/02
(32) 05.03.2018	2018041179	(11) EP3351549
(33) United States of America	(32) 26.03.2018	(21) EP16845697.8
(51) C07D 498/18	26.03.2018	(47) 11.01.2023
A61K 31/535	20.03.2018	(87) CN2016098847
A61P 35/00	07.03.2018	23.03.2017
A61K 47/68	07.03.2018	(22) 13.09.2016
(11) EP3408271	(33) Japan	(54) COMPOSITION RICH IN SINGLE
(21) EP17704134.0	Japan	ISOMER NUC-1031 AND
(47) 11.01.2023	Japan	PREPARATION METHOD AND USE
(87) US2017014782	Japan	THEREOF
03.08.2017	Japan	(73) BrightGene Bio-Medical Technology Co.,
(22) 24.01.2017	(51) C07F 15/04	Ltd.
(54) MAYTANSINOID DERIVATIVES,	C07F 17/00	(72) YUAN, Jiandong
CONJUGATES THEREOF, AND	C07D 319/12	HUANG, Yangqing
METHODS OF USE	C07C 17/00	MIAO, Linfeng
(73) Regeneron Pharmaceuticals, Inc.	C07D 333/12	GU, Jianing
(72) NITTOLI, Thomas	C07D 233/10	LIANG, Chaohua
MARKOTAN, Thomas P.	C07D 213/62	WANG, Zhengye
(31) 201662286858 P	(11) EP3911658	SUN, Zhanli
(32) 25.01.2016	(21) EP20707045.9	(31) 201510586447

(32) 16.09.2015	(32) 31.07.2014	C08K 5/548
(33) China	(33) United States of America	(11) EP3628692
(51) C07K 7/06	(51) C07K 16/10	(21) EP19198823.7
A61K 8/64	A61P 31/14	(47) 11.01.2023
A61P 17/02	A61K 39/00	(22) 21.09.2019
A61Q 19/02	(11) EP3889177	(54) SILICA REINFORCED RUBBER
C12N 9/12	(21) EP20186667.0	COMPOSITION CONTAINING
A61K 38/00	(47) 11.01.2023	A MULTIFUNCTIONAL GROUP
(11) EP3800193	(22) 20.07.2020	FUNCTIONALIZED ELASTOMER AND
(21) EP19930166.4	(54) ANTI-SARS-COV-2-SPIKE	TIRE WITH TREAD
(47) 11.01.2023	GLYCOPROTEIN ANTIBODIES AND	(73) The Goodyear Tire & Rubber Company
(87) KR2019013266	ANTIGEN-BINDING FRAGMENTS	(72) PAPAKONSTANTOPOULOS, George
25.02.2021	(73) Regeneron Pharmaceuticals, Inc.	Jim
(22) 10.10.2019	(72) BABB, Robert	MURRAY, Aaron Patrick
(54) PEPTIDE HAVING SKIN WHITENING	BAUM, Alina	HAHN, Bruce Raymond
ACTIVITY AND USE THEREOF	CHEN, Gang	MARTTER, Teresa Diane
(73) Caregen Co., Ltd.	GERSON, Cindy	(31) 201916507093
(72) CHUNG, Yongji	HANSEN, Johanna	201862734407 P
KIM, Eun Mi	HUANG, Tammy	(32) 10.07.2019
LEE, Eung Ji	KYRATSOUS, Christos	21.09.2018
KIM, Jan Di	LEE, Wen-Yi	(33) United States of America
(31) 20190101880	MALBEC, Marine	United States of America
(32) 20.08.2019	MURPHY, Andrew	(51) C08F 2/24
(33) Korea (Republic)	OLSON, William	C08F 2/38
(51) C07K 14/47	STAHL, Neil	C08K 5/092
G16B 20/00	YANCOPOULOS, George D.	C08K 5/098
(11) EP3652606	(31) 202016912678	C08F 36/04
(21) EP18742985.7	202063034865 P	C08K 5/372
(47) 11.01.2023	202063025949 P	C08L 55/02
(87) EP2018069032	202063014687 P	C08L 25/12
17.01.2019	202063004312 P	C08F 279/04
(22) 12.07.2018	PCT/US2020/039707	(11) EP3363819
(54) A UNIVERSAL VACCINE BASED ON	(32) 25.06.2020	(21) EP17867447.9
SHARED TUMOR NEOANTIGENS FOR	04.06.2020	(47) 11.01.2023
PREVENTION AND TREATMENT OF	15.05.2020	(87) KR2017008283
MICRO SATELLITE INSTABLE (MSI)	23.04.2020	11.05.2018
CANCERS	02.04.2020	(22) 01.08.2017
(73) Nouscom AG	25.06.2020	(54) METHOD FOR PREPARING DIENE-
(72) NICOSIA, Alfredo	(33) United States of America	BASED RUBBER LATEX, METHOD
SCARSELLI, Elisa	United States of America	FOR PREPARING ABS-BASED GRAFT
LEONI, Guido	United States of America	COPOLYMER COMPRISING SAME,
LAHM, Armin	United States of America	AND METHOD FOR MANUFACTURING
(31) 17181026	United States of America	ABS-BASED INJECTION MOLDED
(32) 12.07.2017	World Intellectual Property Office (WIPO)	PRODUCT
(33) European Patent Office (EPO)	(51) C07K 16/38	(73) LG Chem, Ltd.
(51) C07K 14/705	(11) EP3345927	(72) LEE, Jin Hyoung
A61K 35/17	(21) EP17206143.4	KIM, Young Min
A61K 31/436	(47) 11.01.2023	HAN, Su Jeong
A61K 39/00	(22) 27.11.2006	KIM, Yoo Vin
A61K 39/395	(54) HUMAN MONOCLONAL ANTIBODY	JEONG, Young Hwan
C07K 14/725	HUMAN CD134 (OX40) AND METHODS	CHUNG, Sun Haeng
C07K 16/28	OF MAKING AND USING SAME	SUK, Jae Min
C12N 5/0783	(73) Kyowa Kirin Co., Ltd.	HEO, Jae Won
(11) EP3660042	(72) KATO, Shinichiro	(31) 20170088827
(21) EP19199959.8	SOLOFF NUGENT, Rachel	20160144441
(47) 11.01.2023	YOSHIDA, Hitoshi	(32) 13.07.2017
(22) 31.07.2015	CROFT, Michael	01.11.2016
(54) SUBSET-OPTIMIZED CHIMERIC	(31) 739659 P	(33) Korea (Republic)
ANTIGEN RECEPTOR-CONTAINING T-	(32) 25.11.2005	Korea (Republic)
CELLS	(33) United States of America	(51) C08F 120/14
(73) Novartis AG	(51) C08C 19/20	(11) EP3978541
The Trustees of The University of	C08C 19/25	(21) EP21189110.6
Pennsylvania	C08C 19/44	(47) 11.01.2023
(72) GUEDAN CARRIO, Sonia	C08F 136/06	(22) 02.08.2021
JUNE, Carl H	B60C 1/00	(54) METHYL METHACRYLATE
POSEY, Avery D.	C08L 15/00	COMPOSITION
SCHOLLER, John	C08K 3/04	(73) SUMITOMO CHEMICAL COMPANY,
(31) 201462031699 P	C08K 3/36	LIMITED

(72) YOSHIMURA, Kazuaki SUYASU, Noriaki SUMIDA, Masakazu INUKAI, Shoji	(51) C08G 18/00 C08G 18/08 C08G 18/40 C08G 18/61 D06N 3/14 C08G 18/28 C08G 18/12 C08G 18/24 C08G 18/75 C08G 18/34 C08G 18/32 C08G 18/44 C08G 18/48 C08G 18/73 C08G 18/66 D06N 3/00 D06N 3/12	C02F 1/44 (11) EP3619248 (21) EP18719200.0 (47) 11.01.2023 (87) EP2018060830 08.11.2018 (22) 27.04.2018 (54) STORAGE STABLE POLYURETHANE CASTING MASS FOR EMBEDDING OF HOLLOW FIBERS IN THE PRODUCTION OF FILTER ELEMENTS (73) BASF SE (72) KAMM, Andre MATHIEU, Thomas LUKAT, Gunther FRITZ, Ralf (31) 17169695 (32) 05.05.2017 (33) European Patent Office (EPO)
(31) 2020164675 (32) 30.09.2020 (33) Japan	(11) EP3444286 (21) EP17767979.2 (47) 11.01.2023 (87) JP2017005660 19.10.2017 (22) 16.02.2017 (54) WATER-BASED URETHANE RESIN COMPOSITION AND SYNTHETIC LEATHER (73) DIC Corporation (72) MAEDA, Ryo (31) 2016081164 (32) 14.04.2016 (33) Japan	(51) C08G 18/42 C08G 18/32 C08G 18/67 (11) EP3515957 (21) EP17854061.3 (47) 11.01.2023 (87) US2017053184 29.03.2018 (22) 25.09.2017 (54) BIORENEWABLE HIGH PERFORMANCE POLYESTER POLYOLS (73) PTT Global Chemical Public Company Limited (72) TERWILLEGAR, Arne, Matthew DENNISTON, Charliiss (31) 201662399423 P (32) 25.09.2016 (33) United States of America
(51) C08F 210/02 C08F 236/22 C08F 4/54 (11) EP3861035 (21) EP19795300.3 (47) 11.01.2023 (87) FR2019052327 09.04.2020 (22) 02.10.2019 (54) METHOD FOR SYNTHESISING A COPOLYMER OF ETHYLENE AND 1,3- DIENE (73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN (72) LAFAQUIERE, Vincent MORESO, Emma (31) 1859213 (32) 04.10.2018 (33) France	(51) C08F 210/18 C08F 4/64 (11) EP3478732 (21) EP17740190.8 (47) 11.01.2023 (87) US2017040207 04.01.2018 (22) 30.06.2017 (54) ETHYLENE/ALPHA-OLEFIN/ POLYENE INTERPOLYMERS AND COMPOSITIONS CONTAINING THE SAME (73) Dow Global Technologies LLC (72) TUBERQUIA, Juan C. LIPISHAN, Colin ZHOU, Zhe (31) 201662357041 P (32) 30.06.2016 (33) United States of America	(51) C08G 18/20 C08G 18/48 C08G 18/50 C08G 18/76 C08G 18/16 C08G 18/18 C08G 18/40 C08G 18/42 C08G 101/00 (11) EP3161029 (21) EP15812639.1 (47) 11.01.2023 (87) US2015037304 30.12.2015 (22) 24.06.2015 (54) PYRROLIDINE-BASED CATALYSTS FOR USE IN POLYURETHANE MATERIALS (73) Huntsman Petrochemical LLC (72) FORKNER, Matthew W. GRIGSBY, Robert, A. Jr. WILTZ, Jr. Eugene P. RISTER, Ernest L. Jr. RODRIGUEZ, Frank KLEIN, Howard P. (31) 201462018261 P (32) 27.06.2014 (33) United States of America
(51) C08F 210/18 C08F 4/64 (11) EP3478732 (21) EP17740190.8 (47) 11.01.2023 (87) US2017040207 04.01.2018 (22) 30.06.2017 (54) ETHYLENE/ALPHA-OLEFIN/ POLYENE INTERPOLYMERS AND COMPOSITIONS CONTAINING THE SAME (73) Dow Global Technologies LLC (72) TUBERQUIA, Juan C. LIPISHAN, Colin ZHOU, Zhe (31) 201662357041 P (32) 30.06.2016 (33) United States of America	(51) C08F 297/04 C08L 53/02 C08F 2/44 C08L 95/00 (11) EP3712186 (21) EP18879379.8 (47) 11.01.2023 (87) KR2018014040 23.05.2019 (22) 15.11.2018 (54) METHOD FOR PREPARING BLOCK COPOLYMER COMPOSITION (73) LG Chem, Ltd. (72) LEE, Seong Du KIM, Tae Jung LEE, Se Kyung LEE, Chun Hwa (31) 20180136621 20170153820 (32) 08.11.2018 17.11.2017 (33) Korea (Republic) Korea (Republic)	(51) C08G 18/42 C08G 18/76 C08G 18/10 C08G 18/24 C08G 18/32 (11) EP3887421 (21) EP19808849.4 (47) 11.01.2023 (87) EP2019083115 04.06.2020 (22) 29.11.2019 (54) CONTINUOUS PRODUCTION OF PPG BASED TPU (73) BASF SE (72) SCHAEFER, Frank FREESE, Michael POESEL, Elmar YAMAMOTO, Etsuhiro SUZUKI, Yasuyuki WATANABE, Dai DRAWE, Patrick (31) 18209089 (32) 29.11.2018 (33) European Patent Office (EPO)
(51) C08F 210/18 C08F 4/64 (11) EP3478732 (21) EP17740190.8 (47) 11.01.2023 (87) US2017040207 04.01.2018 (22) 30.06.2017 (54) ETHYLENE/ALPHA-OLEFIN/ POLYENE INTERPOLYMERS AND COMPOSITIONS CONTAINING THE SAME (73) Dow Global Technologies LLC (72) TUBERQUIA, Juan C. LIPISHAN, Colin ZHOU, Zhe (31) 201662357041 P (32) 30.06.2016 (33) United States of America	(51) C08G 18/20 C08G 18/48 C08G 18/50 C08G 18/76 C08G 18/16 C08G 18/18 C08G 18/40 C08G 18/42 C08G 101/00 (11) EP3161029 (21) EP15812639.1 (47) 11.01.2023 (87) US2015037304 30.12.2015 (22) 24.06.2015 (54) PYRROLIDINE-BASED CATALYSTS FOR USE IN POLYURETHANE MATERIALS (73) Huntsman Petrochemical LLC (72) FORKNER, Matthew W. GRIGSBY, Robert, A. Jr. WILTZ, Jr. Eugene P. RISTER, Ernest L. Jr. RODRIGUEZ, Frank KLEIN, Howard P. (31) 201462018261 P (32) 27.06.2014 (33) United States of America	(51) C08G 63/183 C08G 63/672 (11) EP3875514 (21) EP19877836.7 (47) 11.01.2023 (87) JP2019042138

07.05.2020	14.03.2019	MECCA, Jodi
(22) 28.10.2019	(33) United States of America	(31) 201962818131 P
(54) COPOLYMERIZED POLYESTER RESIN, MOLDED PRODUCT, AND HEAT- SHRINKABLE FILM	United States of America	(32) 14.03.2019
(73) TOYOBO CO., LTD.	(51) C08G 65/332	(33) United States of America
(72) NAKAGAWA Satoru	C08G 65/333	(51) C08K 3/22
OHASHI Hideto	C08L 67/00	C08J 7/043
HIRONAKA Nobuyuki	C09D 7/45	C08J 7/048
SASAKI Hironao	C08G 63/685	C08K 3/34
UOTANI Kosuke	C08G 63/91	C08J 3/24
TOGAWA Keiichiro	C08G 81/02	B32B 9/00
(31) 2018205331	(11) EP3215558	B32B 27/38
(32) 31.10.2018	(21) EP15797882.6	B65D 65/40
(33) Japan	(47) 11.01.2023	C08L 63/00
(51) C08G 63/183	(87) EP2015075680	C08J 7/04
C08G 63/78	12.05.2016	C08K 3/36
(11) EP3956380	(22) 04.11.2015	C08K 7/00
(21) EP20721715.9	(54) NOVEL POLYMER COMPOSITIONS AND USE OF THESE POLYMER	(11) EP3552821
(47) 11.01.2023	COMPOSITIONS AS DISPERSANTS	(21) EP17878402.1
(87) GB2020050984	(73) BASF SE	(47) 11.01.2023
22.10.2020	(72) KOU, Huiguang	(87) JP2017039749
(22) 20.04.2020	ONCLIN, Steffen	14.06.2018
(54) PROCESSES FOR PREPARING COPOLYESTERS SUITABLE FOR USE IN FOOD CONTACT APPLICATIONS	AUSCHRA, Clemens	(22) 02.11.2017
(73) Dupont Teijin Films U.S. Limited Partnership	NITSCH, Marion	(54) GAS BARRIER FILM
(72) JONES, Stephen	(31) 14191887	(73) Mitsubishi Gas Chemical Company, Inc.
TURNER, David	(32) 05.11.2014	(72) KOUNO, Kazuki
SANKEY, Stephen	(33) European Patent Office (EPO)	(31) 2016239335
(31) 201905587	(51) C08G 73/00	(32) 09.12.2016
(32) 18.04.2019	B32B 15/08	(33) Japan
(33) United Kingdom	B32B 27/00	(51) C08L 7/00
(51) C08G 64/16	C08J 5/18	B60C 1/00
C08G 64/30	C08J 5/24	C08K 5/053
(11) EP3650482	C08L 79/00	C08K 5/23
(21) EP18828289.1	H05K 1/03	C08K 5/3477
(47) 11.01.2023	C08G 73/10	C08L 9/00
(87) JP2018023514	C08G 73/12	C08J 9/10
10.01.2019	C08L 79/08	(11) EP3636703
(22) 20.06.2018	(11) EP3674346	(21) EP18812691.6
(54) POLYCARBONATE COPOLYMER	(21) EP18848617.9	(47) 11.01.2023
(73) Teijin Limited	(47) 11.01.2023	(87) JP2018020396
(72) TSUNEMORI, Hideyuki	(87) JP2018026678	13.12.2018
IMAZATO, Kenta	28.02.2019	(22) 28.05.2018
YAMANAKA, Katsuhiko	(22) 17.07.2018	(54) RUBBER COMPOSITION, VULCANIZED RUBBER, RUBBER PRODUCT, AND TIRE
(31) 2017170163	(54) RESIN COMPOSITION, PREPREG, METAL-FOIL-CLAD LAMINATE, RESIN	(73) Bridgestone Corporation
2017133704	SHEET, AND PRINTED WIRING BOARD	(72) SHODA, Yasuhiro
(32) 05.09.2017	(73) Mitsubishi Gas Chemical Company, Inc.	HASHIGUCHI, Makoto
07.07.2017	(72) KOGA, Shota	SHIONO, Saaya
(33) Japan	TAKANO, Kentaro	(31) 2017114403
Japan	(31) 2017158881	(32) 09.06.2017
(51) C08G 65/26	(32) 21.08.2017	(33) Japan
(11) EP3708602	(33) Japan	(51) C08L 9/06
(21) EP20166949.6	(51) C08G 77/442	C08L 9/08
(47) 11.01.2023	C08G 81/02	C08L 21/00
(22) 31.03.2020	C08G 77/20	C08L 21/02
(54) PROCESS FOR PRODUCING POLYCYCLIC POLYETHER POLYOLS	(11) EP3938426	C08J 3/28
(73) Covestro LLC	(21) EP20719522.3	C08J 3/26
(72) LOVEDAY, Anthony	(47) 11.01.2023	C08J 3/24
REESE, Jack	(87) US2020022529	C08L 7/00
ADKINS, Rick	17.09.2020	B60C 1/00
ZIELINSKI, David	(22) 13.03.2020	C08J 3/00
(31) 201916373885	(54) POLYORGANOSILOXANE HYBRID	C08L 23/22
201962818228 P	PRESSURE SENSITIVE ADHESIVE	(11) EP2772512
(32) 03.04.2019	AND METHODS FOR THE PREPARATION AND USE THEREOF	(21) EP12843797.7
	(73) Dow Silicones Corporation	(47) 11.01.2023
	(72) KELLEY, Elizabeth	(87) CN2012083590
	MITCHELL, Timothy	02.05.2013
		(22) 26.10.2012

(54) RUBBER COMPOSITION AND PREPARATION METHOD AND VULCANIZED RUBBER THEREOF	02.11.2017 (22) 26.04.2017	(47) 11.01.2023 (87) US2019021560 19.09.2019
(73) China Petroleum&Chemical Corporation Beijing Research Institute of Chemical Industry, China Petroleum & Chemical Corporation	(54) ACRYLIC THERMOPLASTIC RESIN COMPOSITION, MOLDED ARTICLE, FILM AND METHOD FOR PRODUCING SAME, AND LAMINATE	(22) 11.03.2019 (54) IMPROVED IMPACT COMPOSITIONS (73) SHPP Global Technologies B.V. (72) RAMAKRISHNAN, Vaidyanath HARSINY, Sepehr GOOSSENS, Johannes Gerardus Petrus GOOSSENS, Johannes Martinus Dina HOEKS, Theodorus Lambertus BAJAJ, Devendra BAJAJ, Pooja
(72) QIAO, Jinliang CONG, Yuxin ZHANG, Xiaohong LI, Ying GAO, Jianming ZHANG, Qianmin SONG, Zhihai SUN, Yanling GUO, Meifang SONG, Peijun CAI, Chuanlun ZHAO, Guoxun SHI, Hongwei QI, Guicun LAI, Jinmei ZHANG, Hongbin WANG, Ya LI, Binghai WANG, Xiang	(73) Kuraray Co., Ltd. (72) NOMOTO, Yusaku OHTA, Daisuke (31) 2016088910 (32) 27.04.2016 (33) Japan	(31) 201862643268 P 18166831 (32) 15.03.2018 11.04.2018 (33) United States of America European Patent Office (EPO)
(31) 201210402962 201210402963 201110330407	(51) C08L 51/04 C08L 25/14 C08L 33/12 C08F 279/02 C08F 285/00 (11) EP3640297 (21) EP18862507.3 (47) 11.01.2023 (87) KR2018011107 04.04.2019 (22) 20.09.2018 (54) THERMOPLASTIC RESIN COMPOSITION AND METHOD FOR PREPARING THE THERMOPLASTIC RESIN COMPOSITION	(31) 201862643268 P 18166831 (32) 15.03.2018 11.04.2018 (33) United States of America European Patent Office (EPO)
(32) 22.10.2012 22.10.2012 26.10.2011	(73) LG Chem, Ltd. (72) CHOI, Jeong Su LEE, Won Seok LEE, Roo Da LEE, Jong Ju YOO, Keun Hoon JANG, Seok Goo PARK, Sang Hoo OK, Hye Jeong KIM, Ho Hoon SHIM, Hyung Seop	(51) C08L 79/02 C08L 79/08 B29C 64/118 B33Y 10/00 (11) EP3877465 (21) EP20824441.8 (47) 11.01.2023 (87) DE2020100964 27.05.2021 (22) 12.11.2020 (54) USE OF CAST-POLYAMIDE FILAMENT AND CAST-POLYAMIDE GRANULAR MATERIAL FOR ADDITIVE MANUFACTURING, AND PRODUCTION PROCESS
(33) China China China	(22) 20.09.2018 (54) THERMOPLASTIC RESIN COMPOSITION AND METHOD FOR PREPARING THE THERMOPLASTIC RESIN COMPOSITION	(33) European Patent Office (EPO)
(51) C08L 23/12 C08L 23/16 C08L 23/04 C08L 23/02 C08K 3/34	(73) CHOI, Jeong Su LEE, Won Seok LEE, Roo Da LEE, Jong Ju YOO, Keun Hoon JANG, Seok Goo PARK, Sang Hoo OK, Hye Jeong KIM, Ho Hoon SHIM, Hyung Seop	(73) Elkamet Kunststofftechnik GmbH (72) EMRICH, Marco FLAMMER, Eberhard NEEBE, Martin
(11) EP3559111 (21) EP17825204.5 (47) 11.01.2023 (87) EP2017083588 28.06.2018 (22) 19.12.2017 (54) THERMOPLASTIC COMPOSITION	(31) 20170127617 (32) 29.09.2017 (33) Korea (Republic)	(31) 102019131083 (32) 18.11.2019 (33) Germany
(73) SABIC Global Technologies B.V. (72) VALKIER, Pieter VAN BEEK, Dimphna Johanna Maria BIEMOND, Gerard Jan Eduard DONNERS, Rob	(51) C08L 59/00 C08L 23/08 C08L 23/16 C08L 29/04 C08L 91/00 F16C 33/20 (11) EP3564311 (21) EP17887202.4 (47) 11.01.2023 (87) JP2017046049 05.07.2018 (22) 21.12.2017 (54) POLYACETAL RESIN COMPOSITION AND SLIDING MEMBER	(51) C08L 83/04 C08L 75/16 C08L 83/06 C08G 18/61 (11) EP3252108 (21) EP17754247.9 (47) 11.01.2023 (87) KR2017001919 14.09.2017 (22) 22.02.2017 (54) CURABLE COMPOSITION
(31) 16206562 (32) 23.12.2016 (33) European Patent Office (EPO)	(73) Oiles Corporation (72) SAITO, Aoi MIYASAKA, Kingo (31) 2016253599 (32) 27.12.2016 (33) Japan	(73) LG Chem, Ltd. (72) BAEK, Si Yeon LEE, Seung Min PARK, Min Soo YANG, Se Woo KIM, So Young (31) 20160029492 (32) 11.03.2016 (33) Korea (Republic)
(51) C08L 51/04 B32B 27/30 C08J 5/18 C08L 33/12 C08L 53/00 B29K 33/04 B29L 7/00 C08L 51/00 C08F 285/00	(73) Oiles Corporation (72) SAITO, Aoi MIYASAKA, Kingo (31) 2016253599 (32) 27.12.2016 (33) Japan	(51) C08L 83/07 C08L 83/05 H01L 23/29 H01L 23/31 (11) EP3103842 (21) EP15745951.2 (47) 11.01.2023
(11) EP3450498 (21) EP17789572.9 (47) 11.01.2023 (87) JP2017016456	(51) C08L 69/00 C08L 83/04 C08L 83/10 C08K 3/36 C08K 7/26 (11) EP3765568 (21) EP19711223.8	(51) C08L 83/07 C08L 83/05 H01L 23/29 H01L 23/31 (11) EP3103842 (21) EP15745951.2 (47) 11.01.2023

(87) JP2015053315 13.08.2015	MYOSE, Takuya	(21) EP17855468.9
(22) 30.01.2015	(31) 2017138275	(47) 11.01.2023
(54) CURABLE SILICONE COMPOSITION, CURED OBJECT THEREOF, AND OPTICAL SEMICONDUCTOR DEVICE	(32) 14.07.2017	(87) JP2017029659
(73) Dow Toray Co., Ltd.	(33) Japan	05.04.2018
(72) HAYASHI, Akito	(51) C09D 11/106	(22) 18.08.2017
NISHIJIMA, Kazuhiro	C09D 11/322	(54) WATER-BASED PIGMENT
IIMURA, Tomohiro	C09D 11/36	DISPERSION, AND WATER-BASED INK
SUTO, Michitaka	C09D 11/38	COMPOSITION
SAGAWA, Takashi	(11) EP3199599	(73) FUJIFILM Corporation
KOBAYASHI, Akihiko	(21) EP17153615.4	(72) KOYANAGI, Masashi
(31) 2014019702	(47) 11.01.2023	KIKUCHI, Wataru
(32) 04.02.2014	(22) 27.01.2017	NISHIMURA, Naoko
(33) Japan	(54) NON-AQUEOUS INK JET	(31) 2016194910
(51) C08L 101/00	COMPOSITION	(32) 30.09.2016
C08J 5/18	(73) Seiko Epsom Corporation	(33) Japan
C08J 5/20	(72) HATTORI, Shugo	(51) C09G 1/02
C08K 3/26	KOIKE, Naoki	H01L 21/306
C08L 67/04	ITO, Jun	H01L 21/321
C08L 101/16	KUBOTA, Kenichiro	(11) EP3714012
B29C 45/00	(31) 2016013534	(21) EP18799774.7
(11) EP3792314	2016013484	(47) 11.01.2023
(21) EP19877483.8	(32) 27.01.2016	(87) EP2018080888
(47) 11.01.2023	27.01.2016	31.05.2019
(87) JP2019035780	(33) Japan	(22) 12.11.2018
30.04.2020	Japan	(54) CHEMICAL MECHANICAL POLISHING
(22) 11.09.2019	(51) C09D 11/17	COMPOSITION
(54) BIODEGRADABLE RESIN MOLDED	C09D 11/50	(73) BASF SE
PRODUCT, METHOD FOR	(11) EP3858925	(72) DAESCHLEIN, Christian
PRODUCING THE SAME, AND	(21) EP20000039.6	SIEBERT, Max
PELLETS USED THEREFOR	(47) 11.01.2023	LAN, Yongqing
(73) TBM Co., Ltd.	(22) 28.01.2020	LAUTER, Michael
(72) TERADA, Takahiko	(54) IRREVERSIBLY ERASABLE INK	USMAN IBRAHIM, Sheik Ansar
(31) 2018202229	COMPOSITION COMPRISING A	GOLZARIAN, Reza
(32) 26.10.2018	DISCOLORATION AGENT	WEI, Te Yu
(33) Japan	(73) Société BIC	GUEVENC, Haci Osman
(51) C09D 11/10	(72) SAUVAGE, Aurore	PROELSS, Julian
C09D 11/326	CAFFIER, Guillaume	LEUNISSEN, Leonardus
C09D 7/45	(51) C09D 11/36	(31) 17203056
(11) EP3505238	C09D 11/322	(32) 22.11.2017
(21) EP19155056.5	C09D 11/324	(33) European Patent Office (EPO)
(47) 11.01.2023	(11) EP3604461	(51) C09J 7/38
(22) 08.04.2016	(21) EP18775339.7	B32B 7/12
(54) USE OF MODIFIED POLYACRYLATE	(47) 11.01.2023	B32B 17/06
DISPERSANTS FOR THE DECORATIVE	(87) JP2018012116	B32B 17/10
CERAMIC MARKET	04.10.2018	B32B 25/12
(73) Lubrizol Advanced Materials, Inc.	(22) 26.03.2018	B32B 25/18
(72) Thetford, Dean	(54) OILY INKJET INK	B32B 27/06
Coulbeck, Elliot	(73) Riso Kagaku Corporation	B32B 27/08
(31) 201562145741 P	(72) ANDO Kazuyuki	B32B 27/28
(32) 10.04.2015	SHIMURA Shinichiro	B32B 27/30
(33) United States of America	MORINAGA Marie	B32B 27/32
(51) C09D 11/101	SUGIURA Hikaru	B32B 27/34
B41J 2/01	OZAWA Shinsuke	B32B 27/36
B41M 5/00	SUGAWARA Noriaki	B32B 27/40
(11) EP3653677	(31) 2017067840	B32B 5/18
(21) EP18831680.6	(32) 30.03.2017	B65G 49/06
(47) 11.01.2023	(33) Japan	B32B 25/08
(87) JP2018025225	(51) C09D 17/00	(11) EP3505584
17.01.2019	B41J 2/01	(21) EP18166117.4
(22) 03.07.2018	B41M 5/00	(47) 11.01.2023
(54) INK COMPOSITION FOR	C09D 11/326	(22) 06.04.2018
PHOTOCURABLE INKJET PRINTING	C09D 11/322	(54) METHOD FOR PRODUCING GLASS
(73) Sakata INX Corporation	C09D 11/38	UNIT AND USE OF A PRESSURE-
(72) SATO, Yoichi	C09D 11/107	SENSITIVE ADHESIVE SHEET
NAKASHIMA, Okinori	C09D 11/033	(73) Nitto Denko Corporation
	C09D 11/106	Nitto Belgium NV
	C09D 11/037	(72) YONEZAKI, Kousuke
	(11) EP3521387	HORIGUCHI, Hakaru

GRUYTERS, Peter	(51) C09K 5/04	(33) European Patent Office (EPO)
PINXTEN, Donald	C10M 101/02	(51) C09K 8/88
(31) 201762611039 P	C10M 105/06	C09K 8/588
(32) 28.12.2017	C10M 105/38	C09K 8/68
(33) United States of America	C10M 107/02	E21B 43/16
(51) C09J 7/38	C10M 107/24	(11) EP3420047
B32B 17/10	C10M 107/34	(21) EP17757197.3
B32B 7/12	F25B 1/00	(47) 11.01.2023
B32B 17/06	F25B 1/053	(87) US2017019096
B32B 25/08	C10N 20/02	31.08.2017
B32B 25/12	C10N 30/00	(22) 23.02.2017
B32B 25/18	C10N 30/06	(54) HYDRAZIDE CROSSLINKED POLYMER
B32B 27/06	C10N 40/30	EMULSIONS FOR USE IN CRUDE OIL
B32B 27/08	C10M 111/02	RECOVERY
B32B 27/28	C10M 171/00	(73) Ecolab USA Inc.
B32B 27/30	(11) EP3597719	(72) WEI, Mingli
B32B 27/32	(21) EP18766889.2	MCDONALD, Kevin
B32B 27/34	(47) 11.01.2023	CHENG, Weiguo
B32B 27/36	(87) JP2018010412	(31) 201662298694 P
B32B 27/40	20.09.2018	(32) 23.02.2016
B32B 5/18	(22) 16.03.2018	(33) United States of America
(11) EP3505582	(54) COMPOSITION FOR HEAT CYCLE	(51) C09K 17/32
(21) EP18166057.2	SYSTEM, AND HEAT CYCLE SYSTEM	C09K 101/00
(47) 11.01.2023	(73) AGC Inc.	A01B 79/02
(22) 06.04.2018	Japan Sun Oil Company, Ltd.	(11) EP3649215
(54) METHOD FOR PRODUCING GLASS	(72) FUKUSHIMA, Masato	(21) EP18832943.7
UNIT AND USE OF A PRESSURE-	SAITO, Rei	(47) 11.01.2023
SENSITIVE ADHESIVE SHEET	(31) 2017053587	(87) IB2018055120
(73) Nitto Denko Corporation	(32) 17.03.2017	17.01.2019
Nitto Belgium NV	(33) Japan	(22) 11.07.2018
(72) YONEZAKI, Kousuke	(51) C09K 5/14	(54) RECLAMATION OF SANDY SOILS
HORIGUCHI, Hakaru	F28D 20/02	UNDER DIFFICULT CLIMATIC
GRUYTERS, Peter	(11) EP3921383	CONDITIONS
PINXTEN, Donald	(21) EP20705503.9	(73) MANEKO, spol. s r.o.
(31) 201762611031 P	(47) 11.01.2023	(72) SCHULMANN, Jan
(32) 28.12.2017	(87) GB2020050299	(31) 20170406
(33) United States of America	13.08.2020	(32) 14.07.2017
(51) C09J 7/38	(22) 10.02.2020	(33) Czech Republic
C09J 133/08	(54) PHASE CHANGE MATERIALS (PCMS)	(51) C09K 23/34
(11) EP3916064	WITH SOLID TO SOLID TRANSITIONS	C09K 23/38
(21) EP21178815.3	(73) Sunamp Limited	G01M 13/00
(47) 11.01.2023	(72) BISSELL, Andrew John	(11) EP3914382
(22) 12.05.2016	OLIVER, David	(21) EP21707777.5
(54) UV-CROSSLINKED HOT-MELT	PULHAM, Colin Richard	(47) 11.01.2023
PRESSURE-SENSITIVE ADHESIVE	CLARK, Rowan	(87) IB2021050673
USED FOR POLYVINYL-CHLORIDE	LOGAN, Hannah	07.10.2021
INSULATED ADHESIVE TAPE	(31) 201901761	(22) 28.01.2021
(73) Hebei Yongle Tape Co., Ltd.	(32) 08.02.2019	(54) METHOD FOR VALIDATING A
(72) Wang, Feng	(33) United Kingdom	HOMOGENIZING VALVE
Qi, Shuqin	(51) C09K 5/20	(73) GEA Mechanical Equipment Italia S.p.A.
Li, Shuang	H01M 8/04	(72) Ricci, Alfredo
(31) 201610073413	(11) EP3545047	Grasselli, Silvia
(32) 03.02.2016	(21) EP17797647.9	Gasparelli, Giovanni
(33) China	(47) 11.01.2023	Diraimondo, Vincenzo
(51) C09K 5/04	(87) EP2017079162	(31) 202000007159
(11) EP3109291	31.05.2018	(32) 03.04.2020
(21) EP15751285.6	(22) 14.11.2017	(33) Italy
(47) 11.01.2023	(54) COOLING AGENTS FOR COOLING	(51) C10B 29/02
(87) JP2015051410	SYSTEMS IN ELECTRIC VEHICLES	C10B 45/00
27.08.2015	WITH FUEL CELLS AND/OR	G01S 17/89
(22) 20.01.2015	BATTERIES CONTAINING AZOLE	G06T 7/00
(54) COMPOSITION FOR HEAT CYCLE	DERIVATIVES AND ADDITIONAL	(11) EP3922700
SYSTEM, AND HEAT CYCLE SYSTEM	CORROSION INHIBITORS	(21) EP20776784.9
(73) AGC Inc.	(73) BASF SE	(47) 11.01.2023
(72) FUKUSHIMA, Masato	(72) DIETL, Harald	(87) JP2020013036
(31) 2014030856	SIEG, Roger	01.10.2020
(32) 20.02.2014	(31) 16200197	(22) 24.03.2020
(33) Japan	(32) 23.11.2016	

- (54) INSPECTION APPARATUS AND INSPECTION METHOD FOR COKE OVEN CONSTRUCTION, AND COKE OVEN CONSTRUCTION METHOD
(73) JFE Steel Corporation
(72) TAKAKI Yuki
YOTSUJI Junichi
WATANABE Taku
(31) 2019058447
(32) 26.03.2019
(33) Japan
-
- (51) C10G 1/00
C10L 1/32
(11) EP2396386
(21) EP10741721.4
(47) 11.01.2023
(87) US2010023886
19.08.2010
(22) 11.02.2010
(54) PROCESS FOR THE DISSOLUTION OF COAL, BIOMASS AND OTHER ORGANIC SOLIDS IN SUPERHEATED WATER
(73) Southern Illinois University
(72) ANDERSON, Kenneth, B.
CRELLING, John, C.
HUGGETT, William, W.
(31) 151677 P
(32) 11.02.2009
(33) United States of America
-
- (51) C10G 3/00
C10L 1/02
(11) EP3352928
(21) EP16848249.5
(47) 11.01.2023
(87) IB2016055695
30.03.2017
(22) 23.09.2016
(54) SYSTEM AND PROCESS FOR PRODUCTION OF BIOFUEL
(73) Reliance Industries Limited
(72) BHUJADE, Ramesh
GHADGE, Rajaram Shrimant
BAHEKAR, Roshni Krishnarao
GUPTA, Somesh
NAGWANI, Nitin
JAIN, Piyush
SAXENA, Nikhlesh
KONAKANDLA, Pavan Kumar
(31) 3750MU2015
3641MU2015
(32) 01.10.2015
24.09.2015
(33) India
India
-
- (51) C10G 65/12
C10L 1/08
C10G 45/08
C10G 47/18
C10G 47/20
(11) EP3230411
(21) EP14835732.0
(47) 11.01.2023
(87) TR2014000503
16.06.2016
(22) 11.12.2014
(54) A METHOD FOR DIESEL PRODUCTION
(73) Türkiye Petrol Rafinerileri Anonim Sirketi
Tupras
(72) NASUHBEOĞLU, Delalettin
ERTAS, Ersen
KÖPRÜLÜ, Yesim
-
- (51) C11D 3/28
C11D 3/39
(11) EP3875566
(21) EP20161451.8
(47) 11.01.2023
(22) 06.03.2020
(54) NITROXIDE COMPOUNDS IN DETERGENTS OR CLEANING COMPOSITIONS
(73) Henkel AG & Co. KGaA
(72) Torun, Boray
Schmiedel, Peter
Rogge, Bent
Ettl, Roland
Nesvadba, Peter
-
- (51) C12M 1/02
C12M 3/06
C12M 1/00
(11) EP3134504
(21) EP15727881.3
(47) 11.01.2023
(87) EP2015001154
18.02.2016
(22) 09.06.2015
(54) INSERT SHELF AND INCUBATOR
(73) IKA - Werke GmbH & Co. KG
(72) FREI, Andreas
(31) 102014011941
(32) 14.08.2014
(33) Germany
-
- (51) C12N 1/21
C12N 1/00
C12N 15/09
C12P 7/42
C12N 9/02
C12N 9/88
(11) EP3438245
(21) EP17773944.8
(47) 11.01.2023
(87) JP2017007233
05.10.2017
(22) 24.02.2017
(54) TRANSFORMANT, AND METHOD FOR PRODUCING PROTOCATECHUIC ACID OR SALT THEREOF USING SAME
(73) Research Institute Of Innovative Technology For The Earth
Sumitomo Bakelite Co.,Ltd.
(72) INUI Masayuki
HIRAGA Kazumi
SUDA Masako
KOGURE Takahisa
(31) 2016064516
(32) 28.03.2016
(33) Japan
-
- (51) C12N 5/00
C12N 5/0775
(11) EP3303562
(21) EP16732406.0
(47) 11.01.2023
(87) US2016036464
15.12.2016
(22) 08.06.2016
(54) DRYING FORMULATION FOR HYDROGEL MICROCARRIERS
(73) Corning Incorporated
(72) DOLLEY-SONNEVILLE, Paula Jean
HENRY, David
SCIBEK, Jeffery Joseph
ZHOU, Yue
(31) 201562172449 P
(32) 08.06.2015
(33) United States of America
-
- (51) C12N 5/0783
A61K 35/17
A61K 35/545
A61P 37/02
A61P 43/00
C12N 5/10
(11) EP3572502
(21) EP18741888.4
(47) 11.01.2023
(87) JP2018001667
26.07.2018
(22) 19.01.2018
(54) METHOD FOR PRODUCING CD8ALPHA +BETA + CYTOTOXIC T CELLS
(73) Kyoto University
(72) KANEKO, Shin
KAWAI, Yohei
(31) 2017008995
(32) 20.01.2017
(33) Japan
-
- (51) C12N 5/0789
C12N 5/02
C12N 5/078
(11) EP3452581
(21) EP17792305.9
(47) 11.01.2023
(87) CA2017000107
09.11.2017
(22) 03.05.2017
(54) 4HPR AND ITS USE IN THE CULTURING OF HEMATOPOIETIC STEM CELLS
(73) University Health Network
(72) DICK, John
XIE, Stephanie
LAURENTI, Elisa
PRAT, Laura Garcia
FERRARI, Robin Thomas
(31) 201662331019 P
(32) 03.05.2016
(33) United States of America
-
- (51) C12N 7/02
C12Q 1/6806
C12Q 1/6851
C12Q 1/70
C12N 7/00
(11) EP3884045
(21) EP19832476.6
(47) 11.01.2023
(87) US2019062429
28.05.2020
(22) 20.11.2019
(54) METHODS FOR INTERNAL CONTROLS OF MICROVESICLE ISOLATIONS
(73) Exosome Diagnostics, Inc.
(72) STOLL, Georg

ENDERLE, Daniel	(33) United States of America	C07H 21/04
NOERHOLM, Mikkel	World Intellectual Property Office (WIPO)	(11) EP3394272
SKOG, Johan	World Intellectual Property Office (WIPO)	(21) EP16879934.4
(31) 201862769745 P	World Intellectual Property Office (WIPO)	(47) 11.01.2023
(32) 20.11.2018	World Intellectual Property Office (WIPO)	(87) US2016067531
(33) United States of America	World Intellectual Property Office (WIPO)	29.06.2017
(51) C12N 9/00	World Intellectual Property Office (WIPO)	(22) 19.12.2016
C12N 15/82	World Intellectual Property Office (WIPO)	(54) COMPOSITIONS AND METHODS
(11) EP3516048	World Intellectual Property Office (WIPO)	FOR EFFICIENT TARGETING OF
(21) EP17853690.0	World Intellectual Property Office (WIPO)	TRANSGENES
(47) 11.01.2023	World Intellectual Property Office (WIPO)	(73) Monsanto Technology LLC
(87) US2017051493	World Intellectual Property Office (WIPO)	(72) ELLIS, Christine, M.
29.03.2018	World Intellectual Property Office (WIPO)	GOLEY, Michael, E.
(22) 14.09.2017	(51) C12N 15/113	LARUE, Clayton, T.
(54) TRICHOME SPECIFIC PROMOTERS	C12N 15/85	LECLERE, Sherry, L.
FOR THE MANIPULATION OF	C12N 15/64	QI, Qungang
CANNABINOIDS AND OTHER	C12N 5/10	SHAO, Aihua
COMPOUNDS IN GLANDULAR	C12P 21/08	THAI, Kwan, Y.
TRICHOMES	(11) EP3837368	(31) 201662364715 P
(73) 22nd Century Limited, LLC	(21) EP19850474.8	201562270180 P
(72) RUSHTON, Paul	(47) 11.01.2023	(32) 20.07.2016
(31) 201662397212 P	(87) CN2019100549	21.12.2015
(32) 20.09.2016	20.02.2020	(33) United States of America
(33) United States of America	(22) 14.08.2019	United States of America
(51) C12N 9/54	(54) TRANSCRIPTIONAL REGULATORY	(51) C12P 19/34
C11D 3/386	ELEMENT AND ITS USE IN	C07H 19/00
(11) EP3004342	ENHANCING THE EXPRESSION OF	C07H 21/00
(21) EP14737359.1	HETEROLOGOUS PROTEIN	(11) EP3122889
(47) 11.01.2023	(73) Wuxi Biologics Ireland Limited	(21) EP15768708.8
(87) US2014040063	(72) ZHANG, Zheng	(47) 11.01.2023
04.12.2014	LI, Xiaolu	(87) US2015022343
(22) 29.05.2014	ZHANG, Yuchen	01.10.2015
(54) NOVEL METALLOPROTEASES	LI, Yarong	(22) 24.03.2015
(73) Danisco US Inc.	DONG, Huifang	(54) UNA OLIGOMERS HAVING REDUCED
(72) BABE, Lilia M.	CAI, Jill	OFF-TARGET EFFECTS IN GENE
BOTT, Richard R.	ZHOU, Weichang	SILENCING
GHIRNIKAR, Roopa	CHEN, Chris	(73) Arcturus Therapeutics, Inc.
GOEDEGEBUUR, Frits	MU, Lili	(72) TACHIKAWA, Kiyoshi
GU, Xiaogang	TANG, Chuanlong	PAYNE, Joseph E.
KOLKMAN, Marc	(31) PCT/CN2018/100467	CHIVUKULA, Padmanabh
YAO, Jian	(32) 14.08.2018	(31) 201461970320 P
YU, Shukun	(33) World Intellectual Property Office (WIPO)	(32) 25.03.2014
(31) 201361874813 P	(51) C12N 15/29	(33) United States of America
PCT/CN2013/076369	C07K 14/415	(51) C12Q 1/6837
PCT/CN2013/076383	A01H 5/00	C40B 30/04
PCT/CN2013/076386	(11) EP3385385	G01N 21/64
PCT/CN2013/076390	(21) EP16869848.8	(11) EP3856927
PCT/CN2013/076415	(47) 11.01.2023	(21) EP19867543.1
PCT/CN2013/076398	(87) CN2016104255	(47) 11.01.2023
PCT/CN2013/076384	08.06.2017	(87) US2019051895
PCT/CN2013/076414	(22) 01.11.2016	02.04.2020
PCT/CN2013/076406	(54) USE OF TOBACCO GENE NTTCTP IN	(22) 19.09.2019
PCT/CN2013/076401	PLANTS AGAINST POTATO VIRUS Y	(54) COMPOSITIONS, KITS, AND
PCT/CN2013/076387	(73) Guizhou Institute of Tobacco Science	METHODS FOR MULTIPLEX
PCT/CN2013/076419	(72) GUO, Yushuang	ASSAYS TO CORRECT FOR BIOTIN
(32) 06.09.2013	JIA, Mengao	INTERFERENCE IN TARGET ANALYTE
29.05.2013	XIA, Fanjiang	MEASUREMENTS
29.05.2013	ZHANG, Jinsong	(73) Siemens Healthcare Diagnostics Inc.
29.05.2013	CHEN, Shouyi	(72) WEI, Tie
29.05.2013	REN, Xueliang	(31) 201862735905 P
29.05.2013	ZHAO, Jiehong	(32) 25.09.2018
29.05.2013	(31) 201510858859	(33) United States of America
29.05.2013	(32) 01.12.2015	(51) C12Q 1/686
29.05.2013	(33) China	(11) EP3768860
29.05.2013	(51) C12N 15/87	(21) EP19713411.7
29.05.2013	A01H 5/00	(47) 11.01.2023
29.05.2013	C12N 15/00	(87) EP2019057025
29.05.2013	C12N 5/04	26.09.2019

(22) 21.03.2019	(11) EP3705590	(33) United States of America
(54) MODIFIED NUCLEOSIDE PHOSPHATES WITH HIGH THERMAL STABILITY	(21) EP18874134.2	(51) C23C 30/00
(73) F. Hoffmann-La Roche AG	(47) 11.01.2023	F01D 5/28
(72) NIERTH, Alexander	(87) JP2018040471	C23C 28/04
(31) 201862645938 P	09.05.2019	C23C 28/00
(32) 21.03.2018	(22) 31.10.2018	(11) EP3455393
(33) United States of America	(54) ALLOY MATERIAL, PRODUCT USING SAID ALLOY MATERIAL, AND FLUID MACHINE HAVING SAID PRODUCT	(21) EP17729223.2
(51) C12Q 1/686	(73) Hitachi Metals, Ltd.	(47) 11.01.2023
C12Q 1/6869	(72) CHEN, Meichuan	(87) US2017031837
C12Q 1/6813	FUJIEDA, Tadashi	16.11.2017
(11) EP3574112	KUWABARA, Kousuke	(22) 09.05.2017
(21) EP18702220.7	(31) 2017210367	(54) THERMAL BARRIER SYSTEM WITH BOND COAT BARRIER
(47) 11.01.2023	2017210370	(73) General Electric Company
(87) EP2018051909	(32) 31.10.2017	(72) CHAPMAN, Julie, Marie
02.08.2018	31.10.2017	ECKERT, Robert
(22) 26.01.2018	(33) Japan	DAS, Nripendra, Nath
(54) BARCODED DNA FOR LONG RANGE SEQUENCING	Japan	(31) 201615149348
(73) F. Hoffmann-La Roche AG	(51) C23C 14/08	(32) 09.05.2016
(72) NOLAN, Garry	C23C 14/30	(33) United States of America
(31) 201762451354 P	F01D 5/28	(51) C25D 3/16
(32) 27.01.2017	C23C 28/04	C25D 5/02
(33) United States of America	C04B 35/486	C25D 7/12
(51) C12Q 1/6886	(11) EP2781618	H01L 21/768
(11) EP2920322	(21) EP14160165.8	C25D 3/18
(21) EP13795976.3	(47) 11.01.2023	C25D 7/00
(47) 11.01.2023	(22) 16.03.2014	H01L 21/288
(87) US2013070373	(54) LOW CONDUCTIVITY THERMAL BARRIER COATING	(11) EP3649279
22.05.2014	(73) Honeywell International Inc.	(21) EP18829029.0
(22) 15.11.2013	(72) TOLPYGO, Vladimir K.	(47) 11.01.2023
(54) GENE SIGNATURES FOR CANCER PROGNOSIS	BAKER, Wil	(87) US2018037469
(73) Myriad Genetics, Inc.	(31) 201313846574	10.01.2019
(72) STONE, Steven	(32) 18.03.2013	(22) 14.06.2018
GUTIN, Alexander	(33) United States of America	(54) COBALT FILLING OF INTERCONNECTS
WAGNER, Susanne	(51) C23C 16/44	(73) MacDermid Enthone Inc.
REID, Julia	C23C 16/455	(72) COMMANDER, John
(31) 201261727533 P	C23C 16/458	WHITTEN, Kyle
(32) 16.11.2012	H01L 21/67	PANECCASIO, Vincent, Jr.
(33) United States of America	(11) EP3608440	SUN, Shaopeng
(51) C22C 5/02	(21) EP19188826.2	YAKOBSON, Eric
A44C 27/00	(47) 11.01.2023	HAN, Jianwen
C22F 1/14	(22) 29.07.2019	NAJJAR, Elie
(11) EP3812477	(54) VERTICAL FURNACE FOR PROCESSING SUBSTRATES AND A LINER FOR USE THEREIN	(31) 201715641756
(21) EP19306367.4	(73) ASM IP Holding B.V.	(32) 05.07.2017
(47) 11.01.2023	(72) Wiegiers, Frans	(33) United States of America
(22) 21.10.2019	(31) 201816100012	(51) C30B 29/16
(54) METAL ALLOY COMPRISING GOLD	(32) 09.08.2018	C30B 33/06
(73) Richemont International SA	(33) United States of America	(11) EP3467159
(72) LALIRE, Fanny	(51) C23C 24/10	(21) EP18197096.3
THEDY, Louis	F16D 65/00	(47) 11.01.2023
(51) C22C 30/00	C23C 28/02	(22) 27.09.2018
C22C 33/02	F16D 65/02	(54) SUBSTRATE MANUFACTURING METHOD
F04D 29/02	(11) EP3572556	(73) Shin-Etsu Polymer Co., Ltd.
C22C 1/04	(21) EP19170184.6	Shin-Etsu Chemical Co., Ltd.
C22C 19/05	(47) 11.01.2023	National University Corporation Saitama University
C22C 19/07	(22) 18.04.2019	(72) IKENO, Junichi
F04D 29/28	(54) HYBRID TORQUE BAR FOR A WHEEL ASSEMBLY	YAMADA, Yohei
B33Y 10/00	(73) Goodrich Corporation	SUZUKI, Hideki
B33Y 70/00	(72) STEELE, Leslie	NOGUCHI, Hitoshi
B33Y 80/00	FILBURN, Thomas P.	(31) 2017196005
B22F 9/08	KLECKA, Michael A.	(32) 06.10.2017
B22F 9/10	(31) 201815962680	(33) Japan
B22F 10/28	(32) 25.04.2018	(51) D03D 13/00
B22F 3/24		D03D 15/56
C22F 1/10		(11) EP2815013

(21) EP13749348.2	(22) 10.03.2020	(72) DEL POS, Maurizio
(47) 11.01.2023	(54) METHOD FOR OPERATING A LIQUID-CONDUCTING DOMESTIC APPLIANCE	FAVARO, Daniele
(87) US2013026700	AND LIQUID-CONDUCTING DOMESTIC APPLIANCE	ZATTIN, Andrea
22.08.2013	(51) D06F 39/14	
(22) 19.02.2013	D06F 58/04	
(54) ARCHITECTURALLY ENFORCED DENIM	(73) BSH Hausgeräte GmbH	(11) EP2843107
(73) NIKE Innovate C.V.	(72) Hahn, Kevin	(21) EP13182522.6
(72) MARTIN, John, F.	Römer, Raymond	(47) 11.01.2023
WISE, Lashurya, M.	Wetzel, Stefan	(22) 30.08.2013
(31) 201313767505	(31) 102019203577	(54) Laundry treatment device with a door assembly
201261600286 P	(32) 15.03.2019	(73) Electrolux Appliances Aktiebolag
(32) 14.02.2013	(33) Germany	(72) Pilot, Sergio
17.02.2012	(51) D06F 34/16	Santarossa, Marco
(33) United States of America	D06F 105/58	
United States of America	D06F 105/52	(51) D06F 58/24
(51) D03D 21/00	D06F 105/48	D06F 39/08
D03D 1/00	D06F 103/26	(11) EP3077587
D03D 13/00	(11) EP3819417	(21) EP14828527.3
D03D 15/25	(21) EP20206599.1	(47) 11.01.2023
D03D 15/533	(47) 11.01.2023	(87) IB2014066477
(11) EP3953509	(22) 10.11.2020	11.06.2015
(21) EP20722470.0	(54) METHOD FOR NATURAL FREQUENCY DETECTION IN A DRUM WASHING MACHINE	(22) 01.12.2014
(47) 11.01.2023	(73) Gorenje, d.o.o.	(54) HOUSEHOLD WASHING AND DRYING APPLIANCE
(87) EP2020059942	(72) CEPON, Gregor	(73) Whirlpool EMEA S.p.A
15.10.2020	KATANEC, Joze	(72) MANCINI, Mauro
(22) 07.04.2020	STIMULAK, Mitja	(31) TO20130999
(54) METHOD FOR PATTERN-CONTROLLED FORMING OF THE CONNECTION POINT OF AN EFFECT THREAD IN TISSUE	BOLTEZAR, Miha	(32) 05.12.2013
(73) Textilma AG	STARC, Blaz	(33) Italy
(72) ENGESSER, Bernhard	BREGAR, Tomaz	(51) D06F 58/30
(31) 19168490	MIHELIC, Ales	D06F 58/20
(32) 10.04.2019	(31) 201900218	F22B 1/28
(33) European Patent Office (EPO)	(32) 11.11.2019	D06F 39/00
(51) D04B 1/22	(33) Slovenia	(11) EP3714094
A43B 23/02	(51) D06F 37/40	(21) EP18825781.0
(11) EP3186424	D06F 39/08	(47) 11.01.2023
(21) EP15756326.3	D06F 37/34	(87) IB2018059253
(47) 11.01.2023	(11) EP3702514	31.05.2019
(87) US2015046116	(21) EP18905528.8	(22) 23.11.2018
03.03.2016	(47) 11.01.2023	(54) STEAM GENERATION SYSTEM FOR USE IN HOUSEHOLD APPLIANCE
(22) 20.08.2015	(87) CN2018089355	(73) I.R.C.A. S.p.A. Industria Resistenze
(54) KNITTED COMPONENT HAVING TENSILE STRAND FOR ADJUSTING AN AUXETIC PORTION AND ARTICLE OF FOOTWEAR COMPRISING SAID COMPONENT	15.08.2019	Corazzate e Affini
(73) NIKE Innovate C.V.	(22) 31.05.2018	(72) ZOPPAS, Federico
(72) CROSS, Tory M.	(54) DRUM WASHING MACHINE	BIASI, Maurizio
PODHAIJNY, Daniel A.	(73) Wuxi Little Swan Electric Co., Ltd.	ZANETTE, Giuliano
(31) 201414469973	(72) LIN, Guangfang	TAFFAREL, Otello
(32) 27.08.2014	LU, Song	DURIGON, Giacomo
(33) United States of America	MIAO, Yulai	(31) 201700134641
(51) D06F 33/47	QIAN, Wei	(32) 23.11.2017
D06F 34/20	ZHU, Chunyu	(33) Italy
D06F 39/08	(31) 201810121672	(51) D06N 3/00
A47L 15/42	201820221043 U	D06N 3/14
D06F 103/48	(32) 07.02.2018	(11) EP3816342
A47L 15/00	07.02.2018	(21) EP20204538.1
D06F 33/42	(33) China	(47) 11.01.2023
D06F 58/50	China	(22) 29.10.2020
D06F 105/54	(51) D06F 39/02	(54) ARTIFICIAL LEATHER AND PRODUCTION METHOD THEREFOR
D06F 105/58	D06F 39/00	(73) Asahi Kasei Kabushiki Kaisha
(11) EP3708705	D06F 39/08	(72) Hironaka, Daisuke
(21) EP20161965.7	(11) EP3221502	Tadokoro, Yoshiyuki
(47) 11.01.2023	(21) EP14802034.0	Teramura, Takuya
	(47) 11.01.2023	Ikebata, Hisaki
	(87) EP2014075147	Umamoto, Hiroki
	26.05.2016	(31) 2019197304
	(22) 20.11.2014	(32) 30.10.2019
	(54) LAUNDRY WASHING MACHINE	
	(73) Electrolux Appliances Aktiebolag	

(33) Japan	(54) METHOD OF MANUFACTURING CELLULOSE NANOFIBER COMPACT	(32) 13.07.2018
(51) D07B 1/02	(73) Hosiden Corporation	(33) Germany
D07B 1/14	(72) NAGAOKA, Satofumi	(51) D21H 27/40
(11) EP3325710	(31) 2019142746	C09J 103/00
(21) EP16741914.2	(32) 02.08.2019	B32B 3/28
(47) 11.01.2023	(33) Japan	B32B 29/08
(87) EP2016067156	(51) D21H 17/25	C08L 1/02
26.01.2017	D21H 17/46	C08L 3/00
(22) 19.07.2016	D21H 21/22	C09J 101/00
(54) ROPE MADE OF TEXTILE FIBRE MATERIAL	D21H 27/40	D21C 9/00
(73) Teufelberger Fiber Rope GmbH	A61L 15/28	D21H 11/18
(72) BALDINGER, Peter	D21H 27/00	D21H 17/28
ERNST, Björn	D21H 21/56	D21H 19/54
KAISER, Gunter	A61L 15/42	D21H 27/10
KIRTH, Rudolf	A61F 15/00	(11) EP3535340
RÜHRNÖSSL, Erich	A61F 13/53	(21) EP17867747.2
TRAXL, Robert	A61F 13/534	(47) 11.01.2023
(31) 15177933	A61F 13/537	(87) IB2017056756
(32) 22.07.2015	(11) EP3370592	11.05.2018
(33) European Patent Office (EPO)	(21) EP16862884.0	(22) 31.10.2017
(51) D21F 3/08	(47) 11.01.2023	(54) A CORRUGATED BOARD
D21F 3/02	(87) US2016060128	COMPRISING AN ADHESIVE
F16C 13/00	11.05.2017	COMPRISING STARCH AND FINE
B30B 3/00	(22) 02.11.2016	MICOFIBRILLATED CELLULOSE
(11) EP3891333	(54) FOAMED COMPOSITE WEB WITH	(73) Stora Enso Oyj
(21) EP19816235.6	LOW WET COLLAPSE	(72) HEISKANEN, Isto
(47) 11.01.2023	(73) Kimberly-Clark Worldwide, Inc.	LAMPAINEN, Seppo
(87) EP2019083056	(72) QIN, Jian	BACKFOLK, Kaj
11.06.2020	CALEWARTS, Deborah J.	SAUKKONEN, Esa
(22) 29.11.2019	WALDROUP, Donald E.	KANKKUNEN, Jukka
(54) ROLL AND METHOD FOR PRODUCING	(31) 201562250227 P	AULIN, Christian
A ROLL	(32) 03.11.2015	ODEBERG GLASENAPP, Astrid
(73) Andritz Küsters GmbH	(33) United States of America	(31) 1651440
(72) RAMISCH, Rolf	(51) D21H 21/34	(32) 01.11.2016
KOHNEN, Franz-Josef	D21H 21/36	(33) Sweden
MEYER, Christian	D21J 1/20	(51) E01B 27/10
HÜNNEKENS, Andre	D21B 1/06	(11) EP3721012
(31) 102018131736	(11) EP3375934	(21) EP18806992.6
102018130853	(21) EP18162261.4	(47) 11.01.2023
(32) 11.12.2018	(47) 11.01.2023	(87) EP2018080720
04.12.2018	(22) 16.03.2018	13.06.2019
(33) Germany	(54) PROCESS OF MAKING A FLOCKS-	(22) 09.11.2018
Germany	BASED THERMAL AND/OR ACOUSTIC	(54) SYSTEM FOR CLEANING BALLAST OF
(51) D21F 5/14	INSULATING MATERIAL	A TRACK
D21F 5/04	(73) Enerpaper S.r.l.	(73) Plasser & Theurer Export von
(11) EP3803242	(72) RE, Ruggero	Bahnbaumaschinen GmbH
(21) EP19807626.7	(31) 201700029362	(72) STÖLNBERGER, Stefan
(47) 11.01.2023	(32) 16.03.2017	WÖRGÖTTER, Herbert
(87) FI2019050376	(33) Italy	(31) 4732017
28.11.2019	(51) D21H 27/10	(32) 07.12.2017
(22) 13.05.2019	D21H 19/18	(33) Austria
(54) GROOVED AND PERFORATED TURN	D21H 19/20	(51) E01B 27/16
ROLL OF A FIBER WEB MACHINE	D21H 19/82	E01B 35/00
(73) Valmet Technologies Oy	B65D 65/40	(11) EP3721013
(72) JUPPI, Kari	(11) EP3821074	(21) EP18806991.8
KAIHOVIRTA, Juha	(21) EP19739964.5	(47) 11.01.2023
KAUPPINEN, Kimmo	(47) 11.01.2023	(87) EP2018080719
(31) 20185479	(87) EP2019068492	13.06.2019
(32) 24.05.2018	16.01.2020	(22) 09.11.2018
(33) Finland	(22) 10.07.2019	(54) METHOD AND SYSTEM FOR
(51) D21H 11/18	(54) HEAT-SEALABLE BARRIER PAPER	MONITORING THE LOADING OF A
D21J 3/00	(73) Mitsubishi HiTec Paper Europe GmbH	TAMPING UNIT
(11) EP3771773	(72) EL-KARZAZI, Nadia	(73) Plasser & Theurer Export von
(21) EP20187312.2	BECKER, Dieter	Bahnbaumaschinen GmbH
(47) 11.01.2023	KALESSIOS, Konstantinos	(72) MAIER, Bernhard
(22) 23.07.2020	SCHLEGEL, Jochen	PUCHMAYR, Alexander
	(31) 102018117071	MAX-THEURER, Johannes
		(31) 4722017

(32) 07.12.2017	SAKAMOTO, Hiroshi	ZANICHELLI, Alessio
(33) Austria	MORIKI, Hidekazu	AMORUSO, Luigi
(51) E01D 21/00	NARIKAWA, Ryu	(31) 201900001761
(11) EP3695053	(31) 2017218071	(32) 07.02.2019
(21) EP18793732.1	(32) 13.11.2017	(33) Italy
(47) 11.01.2023	(33) Japan	(51) E02F 9/26
(87) US2018054782	(51) E02F 3/96	E02F 3/43
18.04.2019	E02F 9/00	E02F 3/85
(22) 07.10.2018	(11) EP2987918	E02F 9/20
(54) STAY-IN-PLACE FORMS	(21) EP14181290.9	E02F 9/22
(73) Precasteel LLC	(47) 11.01.2023	E02F 3/84
(72) DINMORE, Gary Michael	(22) 18.08.2014	E02F 3/96
DEERKOSKI, John Stanley	(54) Removable pin stub	H04N 7/18
(31) 201715728085	(73) Caterpillar Work Tools B. V.	(11) EP3604694
(32) 09.10.2017	(72) Van Koningsbrugge, Frank	(21) EP17903017.6
(33) United States of America	Van Gemert, John	(47) 11.01.2023
(51) E02B 9/00	Grant, Patrick	(87) JP2017041728
E02B 9/02	Van Amelsfoort, Edward	04.10.2018
(11) EP3299521	Myers, Carl	(22) 20.11.2017
(21) EP16796773.6	(51) E02F 3/96	(54) WORK MACHINE
(47) 11.01.2023	E02F 9/28	(73) Hitachi Construction Machinery Co., Ltd.
(87) KR2016005260	B25D 17/00	(72) KIKUCHI Jun
24.11.2016	(11) EP3567165	ISHIDA Seiji
(22) 18.05.2016	(21) EP19166924.1	EDAMURA Manabu
(54) TIDAL POWER GENERATION	(47) 11.01.2023	(31) 2017066001
SYSTEM CAPABLE OF MULTIPLE-	(22) 03.04.2019	(32) 29.03.2017
FLOW POWER GENERATION	(54) ROCK CLAW FOR DEMOLITION	(33) Japan
FROM INSTALLATION OF UNIFLOW	HAMMER	(51) E02F 9/28
GENERATOR	(73) Caterpillar Inc.	(11) EP3626892
(73) Hae Yang Boklubaljern, LP	(72) Walker, Jason	(21) EP19209136.1
(72) PARK, Sun Seok	Beckhusen, Jordan	(47) 11.01.2023
(31) 20160059359	(31) 201815972317	(22) 29.04.2004
20150070188	(32) 07.05.2018	(54) WEAR MEMBER FOR EXCAVATION
(32) 16.05.2016	(33) United States of America	EQUIPMENT
20.05.2015	(51) E02F 9/18	(73) ESCO Group LLC
(33) Korea (Republic)	B66C 23/72	(72) BRISCOE, Terry L.
Korea (Republic)	B66F 11/04	(31) 82449004
(51) E02B 17/00	E02D 17/13	42593403
F03D 13/25	B62D 49/08	(32) 15.04.2004
E02D 27/52	B66C 23/74	30.04.2003
B63B 21/27	B66F 9/075	(33) United States of America
E02D 31/00	B62D 49/06	United States of America
(11) EP3228754	(11) EP3875695	(51) E03C 1/23
(21) EP17165137.5	(21) EP20202230.7	E03C 1/232
(47) 11.01.2023	(47) 11.01.2023	E03C 1/242
(22) 05.04.2017	(22) 16.10.2020	(11) EP3708724
(54) SCOUR PROTECTION FOR SUCTION	(54) COUNTERWEIGHT MOUNTING	(21) EP19216915.9
PILE, E.G. PILE LOWERING	DEVICE AND WORKING MACHINE	(47) 11.01.2023
OPERATED	HAVING THE SAME	(22) 17.12.2019
(73) SPT Equipment BV	(73) Hyundai Construction Equipment Co.,	(54) SANITARY DRAIN WITH OVERFLOW
(72) Dijkstra, Oene Jeljer	Ltd.	PROTECTION
Buykx, Stefan	(72) SON, Jin Woo	(73) Burgbad AG
(31) 2016555	KIM, Min Seok	(72) Gerig, Thomas
(32) 05.04.2016	(31) 20200026209	(31) 102019001753
(33) Netherlands	(32) 02.03.2020	(32) 11.03.2019
(51) E02F 3/43	(33) Korea (Republic)	(33) Germany
E02F 9/20	(51) E02F 9/20	(51) E04B 1/41
E02F 9/22	(11) EP3921477	E04G 21/18
E02F 9/26	(21) EP20704583.2	(11) EP3990715
(11) EP3712335	(47) 11.01.2023	(21) EP20761189.8
(21) EP18877094.5	(87) IB2020050430	(47) 11.01.2023
(47) 11.01.2023	13.08.2020	(87) EP2020073370
(87) JP2018041499	(22) 21.01.2020	18.03.2021
16.05.2019	(54) EXCAVATING MACHINE WITH	(22) 20.08.2020
(22) 08.11.2018	CONTROL SYSTEM OF THE	(54) ANCHORING ELEMENT AND METHOD
(54) CONSTRUCTION MACHINE	COMBINED DRIVE OF TWO WINCHES	FOR MOUNTING AN ANCHOR RAIL IN
(73) Hitachi Construction Machinery Co., Ltd.	(73) SOILMEC S.P.A.	A CONSTRUCTION ELEMENT MADE
(72) ISHIHARA, Shinji	(72) ANTONELLI, Alberto	OF CONCRETE

(73) Wilhelm Modersohn GmbH & Co. KG (72) MODERSONN, Wilhelm Jochen Peter (31) 102019124308 (32) 10.09.2019 (33) Germany	(73) Prefa Aluminiumprodukte Gesellschaft m.b.H. (72) Ried, Walter (31) 7820 U (32) 17.07.2020 (33) Austria	(21) EP21193213.2 (47) 11.01.2023 (22) 26.08.2021 (54) RAILING FOR A BUILDING (73) Harra, Stefan (72) Harra, Stefan (31) 507332020 (32) 31.08.2020 (33) Austria
(51) E04B 1/61 F25D 23/06 (11) EP3953534 (21) EP21733744.3 (47) 11.01.2023 (87) EP2021065654 23.12.2021 (22) 10.06.2021 (54) LOCKING DEVICE HAVING A VENTING CHANNEL (73) Rahrach GmbH (72) RODEMANN, Klaus (31) 102020116127 (32) 18.06.2020 (33) Germany	(51) E04F 10/02 F16G 1/28 (11) EP3907344 (21) EP20382366.1 (47) 11.01.2023 (22) 04.05.2020 (54) RUNNER FOR MOVING A SLIDING CANOPY AND PULLING SYSTEM THEREOF IN A PERGOLA TYPE STRUCTURE (73) Gaviota Simbac, S.L. (72) GUILLEN CHICO, Francisco TOLEDO CAMPOS, Francisco BALLESTER PEREZ, Ignacio	(51) E04F 11/18 B62H 3/00 E01F 9/685 E04H 12/22 F21S 8/00 F21S 8/08 E01F 9/681 (11) EP3608484 (21) EP19188534.2 (47) 11.01.2023 (22) 26.07.2019 (54) CONSTRUCTION KIT FOR FIXING OBJECTS, SUCH AS RAILINGS, HANDRAILS, PROTECTIVE COVERS, BICYCLE PARKING SPOTS, BOLLARDS, LIGHTS, SIGNS, WASTE CONTAINERS, BANKS OR THE LIKE (73) Barich, Lutz Barich, Rotger (72) Barich, Lutz Barich, Rotger (31) 102018119029 (32) 06.08.2018 (33) Germany
(51) E04B 9/06 (11) EP3889368 (21) EP20167570.9 (47) 11.01.2023 (22) 01.04.2020 (54) METHOD FOR INSTALLATION OF A GRID OF PROFILES OF A CEILING SYSTEM (73) Saint-Gobain Ecophon AB (72) ACHARD, Frederic COAT, Christopher CHIGOT, Pierre	(51) E04F 10/06 (11) EP3798382 (21) EP20382813.2 (47) 11.01.2023 (22) 16.09.2020 (54) ARM FOR AWNING (73) Producciones Mitjavila, S.A.U. (72) Denninger, Morgan Mitjavila, Raymond (31) 201931492 U (32) 16.09.2019 (33) Spain	(54) CONSTRUCTION KIT FOR FIXING OBJECTS, SUCH AS RAILINGS, HANDRAILS, PROTECTIVE COVERS, BICYCLE PARKING SPOTS, BOLLARDS, LIGHTS, SIGNS, WASTE CONTAINERS, BANKS OR THE LIKE (73) Barich, Lutz Barich, Rotger (72) Barich, Lutz Barich, Rotger (31) 102018119029 (32) 06.08.2018 (33) Germany
(51) E04C 3/28 E04C 3/29 E04C 5/07 (11) EP3563012 (21) EP17825870.3 (47) 11.01.2023 (87) EP2017084481 05.07.2018 (22) 22.12.2017 (54) METHOD FOR MANUFACTURING A STRUCTURAL BEAM (73) SABIC Global Technologies B.V. (72) VAN GIESEN, Roland STEENBAKKERS-MENTING, Henrica Norberta Alberta Maria (31) 17150046 (32) 02.01.2017 (33) European Patent Office (EPO)	(51) E04F 10/06 E04F 10/02 E04F 10/00 (11) EP3587697 (21) EP19181856.6 (47) 11.01.2023 (22) 21.06.2019 (54) COVERING APPARATUS AND CORRESPONDING INSTALLATION METHOD (73) Pratic F.LLI Orioli SpA (72) Mindotti, Loris (31) 20180006597 (32) 22.06.2018 (33) Italy	(51) E04F 11/18 F16B 2/12 F16B 5/06 (11) EP3767050 (21) EP20186488.1 (47) 11.01.2023 (22) 17.07.2020 (54) CLAMPING DEVICE FOR A FLAT ELEMENT AND RAILING ARRANGEMENT WITH A CLAMPING DEVICE (73) Pauli + Sohn GmbH Metallwaren (72) SCHNEIDER, Torben (31) 202019103957 U (32) 17.07.2019 (33) Germany
(51) E04D 13/03 E06B 9/11 (11) EP3783163 (21) EP20155239.5 (47) 11.01.2023 (22) 03.02.2020 (54) A SKYLIGHT WINDOW (73) VKR Holding A/S (72) Angel, Beatrice Pedersen, Rasmus Klercke Hestbæk, Allan Dalsgaard	(51) E04F 10/06 E04F 10/08 E04B 7/16 (11) EP3346072 (21) EP16834704.5 (47) 11.01.2023 (87) ES2016070270 16.02.2017 (22) 18.04.2016 (54) AWNING STRUCTURE (73) Producciones Mitjavila, S.A.U. (72) MITJAVILA, Raymond (31) 201531334 U 201530942 U (32) 30.11.2015 13.08.2015 (33) Spain	(51) E04F 13/00 E04B 9/30 (11) EP3800307 (21) EP20186542.5 (47) 11.01.2023 (22) 17.07.2020 (54) PROFILE ELEMENT FOR STRETCHED- FABRIC FALSE WALL, FALSE WALL COMPRISING SUCH A PROFILE ELEMENT (73) Newmat (72) GICQUEL, Pascal (31) 1910919 (32) 02.10.2019 (33) France
(51) E04D 13/147 (11) EP3940163 (21) EP21020367.5 (47) 11.01.2023 (22) 15.07.2021 (54) ENCLOSURE	(51) E04F 11/18 (11) EP3964667	(51) E04F 19/00 E04F 19/08 E05C 19/06 E05C 9/08

E05B 63/20	(72) Zlavdinov, Rustem Latipovich	(33) Germany
E05B 63/22	(31) 20161072	(51) E06B 3/66
(11) EP3655599	(32) 18.11.2016	(11) EP3918172
(21) EP17745982.3	(33) Kazakhstan	(21) EP20701052.1
(47) 11.01.2023	(51) E05F 5/00	(47) 11.01.2023
(87) EP2017000883	(11) EP3580420	(87) EP2020051339
24.01.2019	(21) EP17711378.4	06.08.2020
(22) 20.07.2017	(47) 11.01.2023	(22) 21.01.2020
(54) CLOSURE DEVICE, PREFERABLY FOR CLOSING A SEALING FLAP OF AN OPENING	(87) TR2017000027	(54) INSULATING GLAZING UNIT AND GLAZING
(73) Knauf Gips KG	16.08.2018	(73) Saint-Gobain Glass France
(72) BEYER, Claus	(22) 13.02.2017	(72) DRÖGE, Alicia
(51) E04G 1/36	(54) FURNITURE HINGE HAVING A BLOCKING ELEMENT FOR A LINEAR DAMPER	HOLTSTIEGE, Thomas
E04G 5/06	(73) Samet Kalip Ve Madeni Esya San. Ve Tic. A.S.	MARJAN, Christopher
E04G 5/08	(72) CAPUR, Ertaç	EFFERTZ, Christian
E04G 5/14	(72) CAPUR, Ertaç	(31) 19154159
(11) EP3880903	ORTEGA, Scott	(32) 29.01.2019
(21) EP19812865.4	KIZILTAN, Ufuk	(33) European Patent Office (EPO)
(47) 11.01.2023	BUCK, Daniel Kenneth	(51) E06B 9/24
(87) NL2019050742	TANRIVERDI, Himmet	G02B 5/23
22.05.2020	(51) E05F 11/10	G02F 1/163
(22) 14.11.2019	E05F 15/63	(11) EP3356870
(54) SCAFFOLDING	E05F 11/26	(21) EP16852784.4
(73) Brand Energy Holdings B.V.	(11) EP3929386	(47) 11.01.2023
(72) VAN OERS, Petrus Christianus Johanna Maria	(21) EP21191021.1	(87) US2016055005
KWEEENS, Ralph Gerardus Franciscus Herman	(47) 11.01.2023	06.04.2017
THEUNISSEN, Dennis Andreas	(22) 08.09.2015	(22) 30.09.2016
Johannes	(54) VENT OPERATOR	(54) METHODS OF CONTROLLING MULTI-ZONE TINTABLE WINDOWS
(31) 2022012	(73) Caldwell Manufacturing Company North America, LLC	(73) View, Inc.
(32) 16.11.2018	(72) MCINNIS, James	(72) KLAUWUHN, Erich R.
(33) Netherlands	MUIR, Malcolm	BROWN, Stephen C.
(51) E05B 19/00	CRUZ, Brandon	SHRIVASTAVA, Dhairya
E05B 19/04	(31) 201462046617 P	SILKWOOD, Douglas S.
(11) EP4015741	(32) 05.09.2014	ZEDLITZ, Jason
(21) EP21210964.9	(33) United States of America	FRANK, Trevor
(47) 11.01.2023	(51) E05F 15/603	JOSHI, Charudatta
(22) 29.11.2021	H02K 21/22	GUBIOTTI, Thomas A.
(54) SYSTEM FOR GRIPPING A KEY	H02K 7/116	(31) 201562236032 P
(73) AIRBUS HELICOPTERS	H02K 7/14	(32) 01.10.2015
AIRBUS HELICOPTERS	(11) EP3918168	(33) United States of America
DEUTSCHLAND GmbH	(21) EP20705135.0	(51) E06B 9/307
(72) GOBERVILLE, Yann	(47) 11.01.2023	E06B 9/308
VAYSSIERE, Aurélien	(87) EP2020051893	E06B 9/322
(31) 2013369	06.08.2020	E06B 9/302
(32) 16.12.2020	(22) 27.01.2020	(11) EP3702574
(33) France	(54) FURNITURE COMPONENT COMPRISING A DRIVABLE FURNITURE FITTING	(21) EP20159058.5
(51) E05B 47/00	(73) ambigence GmbH & Co. KG	(47) 11.01.2023
(11) EP3771789	(72) ANDSCHUS, Stefan	(22) 24.02.2020
(21) EP19382676.5	SOBOLEWSKI, Uwe	(54) SUNSHADE APPARATUS
(47) 11.01.2023	(31) 102019102057	(73) Lupak Metal S.r.l.
(22) 02.08.2019	(32) 28.01.2019	(72) BETTOLI, Luca
(54) ANTI-VIBRATION DOOR LOCK	(33) Germany	(31) 201900002755
(73) Montajes Electronicos Dorcas, S.L.	(51) E06B 3/46	(32) 26.02.2019
(72) IBAÑEZ ROIG, Pablo	(11) EP3489448	(33) Italy
GONZALEZ SISTERNAS, Juan	(21) EP18196293.7	(51) E06B 9/36
(51) E05C 1/16	(47) 11.01.2023	(11) EP3698004
(11) EP3543443	(22) 24.09.2018	(21) EP18859971.6
(21) EP17871563.7	(54) SLIDING DOOR SEAL SYSTEM	(47) 11.01.2023
(47) 11.01.2023	(73) Athmer oHG	(87) NL2018050681
(87) KZ2017000015	(72) Dörfer, Ralf	25.04.2019
24.05.2018	Ludwig, Maico	(22) 17.10.2018
(22) 30.05.2017	(31) 102017127642	(54) A LIGHT REGULATING SYSTEM AND OPERATING METHOD THEREFOR
(54) SYSTEM FOR LOCKING INTERIOR DOOR LATCHES	(32) 23.11.2017	(73) Kindow B.V.
(73) Zlavdinov, Rustem Latipovich		(72) KIN, Sam
		PAAUWEN, Laurentius, Jacobus, Theodorus

VAN HEES, Koen, Erjan	FARLEY, Steven	(87) EP2011067058
VAN LEEUWEN, Ritske, Johannes	(31) 201715796844	19.07.2012
(31) 2019766	(32) 29.10.2017	(22) 29.09.2011
(32) 19.10.2017	(33) United States of America	(54) AUTONOMOUS VALVE
(33) Netherlands	(51) E21B 17/042	(73) Equinor Energy AS
(51) E06B 9/68	F16L 15/06	(72) AAKRE, Haavard
(11) EP3985221	(11) EP2050922	MATHIESEN, Vidar
(21) EP20202342.0	(21) EP08166631.5	WERSWICK, Bjørnar
(47) 11.01.2023	(47) 11.01.2023	(31) PCT/EP2011/050471
(22) 16.10.2020	(22) 15.10.2008	(32) 14.01.2011
(54) POWER SUPPLY CIRCUIT	(54) Thread for roto-percussion drill pipe	(33) World Intellectual Property Office (WIPO)
(73) COMATEC CONSULTING S.R.L.	(73) Roggan Investments Ltd	(51) E21B 43/247
(72) Lely, Giancarlo	(72) Thompson, Jamie	E21B 43/263
(51) E06B 9/78	(31) MI20071992	C09K 8/62
E06B 9/42	(32) 16.10.2007	E21B 43/248
E06B 9/56	(33) Italy	C09K 8/80
E06B 9/50	(51) E21B 19/06	C09K 8/66
(11) EP3455446	(11) EP3874115	(11) EP3760832
(21) EP17796864.1	(21) EP19794557.9	(21) EP20188406.1
(47) 11.01.2023	(47) 11.01.2023	(47) 11.01.2023
(87) US2017032216	(87) EP2019079434	(22) 16.06.2016
16.11.2017	07.05.2020	(54) FRACTURING UTILIZING AN AIR/FUEL
(22) 11.05.2017	(22) 28.10.2019	MIXTURE
(54) WINDOW COVERING SYSTEM	(54) LIFTING PLUG	(73) Twin Disc, Inc.
(73) Rollease Acmeda, Inc.	(73) Vallourec Oil and Gas France	(72) WILSON, Edwin, E.
(72) BROWN, Thomas J., II.	(72) DEROUBAIX, Antoine	(31) 201562180473 P
MOORE, Douglas	(31) 1860053	(32) 16.06.2015
SANTILLI, Riccardo	(32) 30.10.2018	(33) United States of America
(31) 201662335337 P	(33) France	(51) E21B 43/26
(32) 12.05.2016	(51) E21B 29/12	E21B 43/247
(33) United States of America	E21B 33/038	(11) EP3074592
(51) E21B 4/18	E21B 33/064	(21) EP14866378.4
E21B 7/20	E21B 17/08	(47) 11.01.2023
E02D 15/04	(11) EP3799610	(87) US2014065532
(11) EP3862528	(21) EP19712137.9	04.06.2015
(21) EP20155449.0	(47) 11.01.2023	(22) 13.11.2014
(47) 11.01.2023	(87) DK2019050050	(54) METHOD FOR RE-FRACTURING
(22) 04.02.2020	22.08.2019	MULTIZONE HORIZONTAL
(54) DOWN HOLE DRILLING RIG AND	(22) 14.02.2019	WELLBORES
METHOD FOR PRODUCING A	(54) EMERGENCY DISCONNECT SYSTEM	(73) Baker Hughes Holdings LLC
BOREHOLE	(73) Noble Drilling A/S	(72) BRANNON, Harold D.
(73) BAUER Maschinen GmbH	(72) MCCOLL, Allan	LEMONS, Jimie Devon
(72) FINKENZELLER, Stefan	(31) PA201800202	(31) 201314091677
KLIPPENSTEIN, Jürgen	PA201800076	(32) 27.11.2013
(51) E21B 7/02	(32) 07.05.2018	(33) United States of America
(11) EP3789579	14.02.2018	(51) E21B 43/26
(21) EP19195649.9	(33) Denmark	E21B 43/247
(47) 11.01.2023	Denmark	E21B 7/00
(22) 05.09.2019	(51) E21B 34/02	E21B 34/06
(54) APPARATUS, METHOD AND	E21B 34/06	(11) EP3102782
SOFTWARE PRODUCT FOR DRILLING	E21B 34/16	(21) EP14860374.9
SEQUENCE PLANNING	(11) EP3953560	(47) 11.01.2023
(73) Sandvik Mining and Construction Oy	(21) EP19734498.9	(87) US2014058995
(72) JAAKKOLA, Veli-Pekka	(47) 11.01.2023	14.05.2015
NURMINEN, Petri	(87) IB2019000480	(22) 03.10.2014
(51) E21B 7/06	15.10.2020	(54) FRAC SLEEVE SYSTEM AND METHOD
E21B 17/10	(22) 10.04.2019	FOR NON-SEQUENTIAL DOWNHOLE
(11) EP3701112	(54) PROTECTION DEVICE FOR A FLUID	OPERATIONS
(21) EP18778779.1	FLOW LINE, RELATED INSTALLATION	(73) Baker Hughes Holdings LLC
(47) 11.01.2023	AND PROCESS	(72) WOOD, Edward T.
(87) US2018050074	(73) TotalEnergies OneTech	MILLS, Aubrey C.
02.05.2019	(72) WALKER, Neil	(31) 201361901135 P
(22) 07.09.2018	(51) E21B 34/08	(32) 07.11.2013
(54) ROTARY STEERABLE SYSTEM	E21B 43/12	(33) United States of America
HAVING ACTUATOR WITH LINKAGE	(11) EP2663733	(51) E21B 47/00
(73) Weatherford Technology Holdings, LLC	(21) EP11763700.9	G01N 33/24
(72) CONGER, Robert	(47) 11.01.2023	G01V 99/00
		(11) EP3167387

(21) EP14897143.5	(47) 11.01.2023	(54) CAMSHAFT PHASING SYSTEM AND CONTROL METHOD OF SUCH A SYSTEM
(47) 11.01.2023	(22) 06.09.2013	(73) Schaeffler Technologies GmbH & Co. KG
(87) US2014046322	(54) Assembly and disassembly methods of a rotor of a gas turbine and corresponding tool	(72) MANNWEILER, Marcel
14.01.2016	(73) MTU Aero Engines AG	AUCHTER, Jochen
(22) 11.07.2014	(72) Gieg, Walter	(31) 102019103104
(54) ANISOTROPIC GEOMETRY-ADAPTIVE REFINEMENT FOR RESERVOIR MESH CREATION	(32) Kufner, Petra	(32) 08.02.2019
(73) Landmark Graphics Corporation	(33) Stanka, Rudolf	(33) Germany
(72) BREWER, Michael L.	(51) F01D 25/16	(51) F01M 11/06
WARD, Steven B.	F01D 9/06	F01M 11/04
(51) E21B 49/00	(11) EP3495629	F01M 11/00
(11) EP3956546	(21) EP18209511.7	(11) EP3314100
(21) EP20725927.6	(47) 11.01.2023	(21) EP16740930.9
(47) 11.01.2023	(22) 30.11.2018	(47) 11.01.2023
(87) IB2020053661	(54) TURBOENGINE FLOW CHANNEL	(87) AT2016050213
22.10.2020	(73) MTU Aero Engines AG	29.12.2016
(22) 17.04.2020	(72) Ramm, Günter	(22) 20.06.2016
(54) FLUID SAMPLING AND MEASURING ASSEMBLY AND METHOD	(31) 102017222193	(54) OIL SUPPLY SYSTEM FOR AN INTERNAL COMBUSTION ENGINE
(73) Saipem S.p.A.	(32) 07.12.2017	(73) Innio Jenbacher GmbH & Co OG
(72) RADICIONI, Alessandro	(33) Germany	(72) FÖRSTER, Michael
MONACCHI, Giulio	(51) F01K 17/02	RANGGER, Alfred
ALOIGI, Elvira	F01K 23/10	(31) 505512015
(31) 201900006068	(11) EP3219940	(32) 25.06.2015
(32) 18.04.2019	(21) EP16161150.4	(33) Austria
(33) Italy	(47) 11.01.2023	(51) F01M 11/10
(51) F01D 9/04	(22) 18.03.2016	F02D 35/02
F01D 25/12	(54) COMBINED CYCLE POWER PLANT AND METHOD FOR OPERATING SUCH A COMBINED CYCLE POWER PLANT	(11) EP3803068
F01D 11/08	(73) General Electric Technology GmbH	(21) EP19726007.8
(11) EP3318721	(72) Couzzi-Carneiro, Mariah	(47) 11.01.2023
(21) EP17199314.0	Dietzmann, Joerg	(87) EP2019063724
(47) 11.01.2023	(51) F01L 1/047	05.12.2019
(22) 31.10.2017	F02D 41/24	(22) 28.05.2019
(54) COOLED STRUCTURE FOR A GAS TURBINE AND CORRESPONDING GAS TURBINE	(11) EP3578768	(54) SYSTEM AND METHOD FOR ESTIMATING THE QUANTITY OF POLLUTING PARTICLES IN THE ENGINE OIL OF A DIESEL INTERNAL COMBUSTION ENGINE
(73) General Electric Company	(21) EP18175735.2	(73) Renault s.a.s
(72) BURNOS, Daniel Robert	(47) 11.01.2023	(72) GASTALDI, Patrick
SEZER, Ibrahim	(22) 04.06.2018	(31) 1854496
(31) 201615343369	(54) A METHOD AND SYSTEM FOR CAMSHAFT POSITIONING CALIBRATION	(32) 28.05.2018
(32) 04.11.2016	(73) Volvo Car Corporation	(33) France
(33) United States of America	(72) DUNERT, Stefan	(51) F01N 3/025
(51) F01D 11/12	DAHLGREN, Jan	F01N 3/033
F01D 21/00	(51) F01L 1/24	F01N 9/00
(11) EP3953569	F01L 1/18	F01N 3/021
(21) EP20725784.1	(11) EP3322882	F01N 13/00
(47) 11.01.2023	(21) EP15738099.9	F01N 3/10
(87) FR2020000108	(47) 11.01.2023	F02D 41/00
15.10.2020	(87) EP2015066243	(11) EP3822465
(22) 10.04.2020	19.01.2017	(21) EP19856263.9
(54) METHOD FOR DETECTING A ROUGHNESS IN AN ABRADABLE LAYER IN A FAN CASING	(22) 16.07.2015	(47) 11.01.2023
(73) Safran Aircraft Engines	(54) AN ARRANGEMENT FOR A VALVE TRAIN ASSEMBLY	(87) JP2019031900
(72) BOUROLLEAU, Clément	(73) Eaton Intelligent Power Limited	05.03.2020
BRANCO, Alexandre	(72) CECUR, Majo	(22) 14.08.2019
DOMINGUES, Serge	(51) F01L 1/352	(54) DPF REGENERATION CONTROL DEVICE AND DPF REGENERATION CONTROL METHOD
FIORE, Vincent, Pascal	F01L 1/46	(73) MITSUBISHI HEAVY INDUSTRIES ENGINE & TURBOCHARGER, LTD.
SIRAJ, Anwer	(11) EP3921519	(72) NISHIZAWA, Kazuki
(31) 1903936	(21) EP19812670.8	SATO, Daisuke
(32) 12.04.2019	(47) 11.01.2023	(31) 2018162768
(33) France	(87) DE2019100977	(32) 31.08.2018
(51) F01D 11/12	13.08.2020	(33) Japan
F01D 25/24	(22) 13.11.2019	(51) F01N 13/18
F01D 25/28		
(11) EP2846001		
(21) EP13183274.3		

F01N 13/00	(22) 04.07.2019	F02M 26/35
F01N 3/10	(54) METHOD FOR COMPENSATING A	F02B 19/10
F01N 3/20	GAS SPRING EFFECT IN EVENT OF	F02B 19/12
F01N 3/021	CYLINDER DEACTIVATION WITH	(11) EP3882455
(11) EP3324017	EXHAUST GAS INCLUSION	(21) EP21163205.4
(21) EP16199779.6	(73) Volkswagen AG	(47) 11.01.2023
(47) 11.01.2023	(72) Thaler, Tim	(22) 17.03.2021
(22) 21.11.2016	Gessenhardt, Dr. Christopher	(54) A FUEL INJECTION SYSTEM FOR
(54) AFTERTREATMENT ASSEMBLY	(31) 102018215649	A SPARK-IGNITION INTERNAL
TOLERANCE COMPENSATION	(32) 14.09.2018	COMBUSTION ENGINE AND RELATIVE
SCHEME	(33) Germany	CONTROL METHOD
(73) Perkins Engines Company Limited	(51) F02D 41/14	(73) Marelli Europe S.p.A.
(72) NIAZ, Naseer A.	F02D 41/00	(72) DE CESARE, Matteo
(51) F02C 7/04	F02D 35/02	STOLA, Federico
F02C 7/057	(11) EP3430252	(31) 202000005683
(11) EP3392484	(21) EP17703149.9	(32) 17.03.2020
(21) EP18168164.4	(47) 11.01.2023	(33) Italy
(47) 11.01.2023	(87) EP2017052494	(51) F02M 45/08
(22) 19.04.2018	21.09.2017	F02B 31/08
(54) SYSTEM AND METHOD	(22) 06.02.2017	F02M 61/18
FOR REGULATING FLOW IN	(54) METHOD AND CONTROLLER FOR	F02B 23/06
TURBOMACHINES	DETERMINING THE QUANTITY	F02B 23/10
(73) General Electric Company	OF FILLING COMPONENTS IN	F02D 41/30
(72) KIPPEL, Bradly Aaron	A CYLINDER OF AN INTERNAL	F02M 61/14
FRESE, Christopher Conrad	COMBUSTION ENGINE	(11) EP3743615
(31) 201715492505	(73) Volkswagen Aktiengesellschaft	(21) EP18701508.6
(32) 20.04.2017	(72) MILLICH, Elmar	(47) 11.01.2023
(33) United States of America	PETERSEN, Lars	(87) FI2018050052
(51) F02C 7/22	KLEINHANS, René	01.08.2019
F23R 3/28	SHURKEWITSCH, Andre	(22) 23.01.2018
(11) EP3633163	TEMPEL, Jean-Sebastian	(54) FUEL INJECTION ARRANGEMENT
(21) EP19201130.2	(31) 102016204539	AND METHOD OF OPERATING
(47) 11.01.2023	(32) 18.03.2016	PISTON ENGINE
(22) 02.10.2019	(33) Germany	(73) Wärtsilä Finland Oy
(54) FUEL MANIFOLD ASSEMBLY	(51) F02D 41/40	(72) CAFARI, Alberto
(73) Pratt & Whitney Canada Corp.	F02B 23/06	EKLUND, Kjell
(72) MORENKO, Oleg	F02B 23/10	ENGSTRÖM, Jesper
KOJOVIC, Aleksandar	(11) EP3690223	GRÖNLUND, Fredrik
BOND, Bryan Michael	(21) EP20153269.4	SEPPÄ, Jussi
(31) 201816149547	(47) 11.01.2023	(51) F02M 61/14
(32) 02.10.2018	(22) 23.01.2020	F02M 61/16
(33) United States of America	(54) COMPRESSION-IGNITION ENGINE,	(11) EP3795819
(51) F02C 9/28	AND METHOD OF CONTROLLING	(21) EP20195289.2
F02C 9/34	COMPRESSION-IGNITION ENGINE	(47) 11.01.2023
F02C 9/50	(73) Mazda Motor Corporation	(22) 09.09.2020
(11) EP3784890	(72) SHIRAHASHI, Naotoshi	(54) ARRANGEMENT FOR RETAINING
(21) EP19716829.7	UESUGI, Yasunori	A FUEL INJECTOR TO A FUEL RAIL
(47) 11.01.2023	MATSUBARA, Takeshi	SOCKET
(87) EP2019058083	(31) 2019013584	(73) Delphi Technologies IP Limited
31.10.2019	(32) 29.01.2019	(72) MASTI, Ravish, S.
(22) 29.03.2019	(33) Japan	CASS, Christopher M.
(54) COMBUSTION SYSTEM CONTROL	(51) F02F 3/14	(31) 201916572927
(73) Siemens Energy Global GmbH & Co. KG	(11) EP3889415	(32) 17.09.2019
(72) BEITA, Jadeed	(21) EP21159445.2	(33) United States of America
DAWSON, Andrew	(47) 11.01.2023	(51) F02N 11/08
(31) 18168708	(22) 26.02.2021	(11) EP3074626
(32) 23.04.2018	(54) PISTON, COMBUSTION-CHAMBER	(21) EP14815871.0
(33) European Patent Office (EPO)	STRUCTURE, ENGINE AND VEHICLE	(47) 11.01.2023
(51) F02D 37/02	(73) MAZDA MOTOR CORPORATION	(87) IB2014002433
F02D 13/06	(72) NOU, Yoshihisa	04.06.2015
F02D 41/00	AOKI, Osamu	(22) 14.11.2014
F02P 5/15	HARADA, Yuji	(54) CONTROL SYSTEM AND CONTROL
F02D 41/14	UCHIDA, Kenji	METHOD OF VEHICLE
F01L 1/18	GE, Xiyao	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
F01L 13/00	(31) 2020065717	(72) SATO, Hiroshi
(11) EP3633168	(32) 01.04.2020	TABUCHI, Hiroaki
(21) EP19184483.6	(33) Japan	(31) 2013244326
(47) 11.01.2023	(51) F02M 26/37	(32) 26.11.2013

(33) Japan	(73) Siemens Gamesa Renewable Energy A/ S	(33) United States of America
(51) F03B 3/18	(72) BURCHARDT, Claus	(51) F03D 13/10
(11) EP3642475	JOERGENSEN, Jens Grandjean	F03D 13/20
(21) EP18732785.3	NIELSEN, Mogens	E04H 12/00
(47) 11.01.2023	(31) 18215103	E04H 12/08
(87) EP2018066661	(32) 21.12.2018	(11) EP3230539
27.12.2018	(33) European Patent Office (EPO)	(21) EP15791607.3
(22) 21.06.2018	(51) F03D 1/06	(47) 11.01.2023
(54) VORTEX GENERATOR	F03D 80/30	(87) EP2015076045
(73) National University of Ireland, Galway	(11) EP3744972	16.06.2016
(72) CLIFFORD, Eoghan	(21) EP19176665.8	(22) 09.11.2015
MULLIGAN, Sean	(47) 11.01.2023	(54) METHOD FOR ERECTING A TUBULAR
(31) 17177258	(22) 27.05.2019	TOWER CONSTRUCTION AND
(32) 21.06.2017	(54) ROTOR FOR A WIND TURBINE AND	TUBULAR TOWER CONSTRUCTION
(33) European Patent Office (EPO)	WIND TURBINE	(73) SIAG Industrie GmbH
(51) F03D 1/06	(73) Siemens Gamesa Renewable Energy A/ S	(72) TATERRA, Hermann-Josef
(11) EP2923077	(72) Devaraj, Aravind	(31) 102015115645
(21) EP13801942.7	Sulaiman, Sajeesh	102014118251
(47) 11.01.2023	(51) F03D 7/02	(32) 16.09.2015
(87) US2013070883	F03D 1/06	09.12.2014
30.05.2014	(11) EP3901453	(33) Germany
(22) 20.11.2013	(21) EP21168511.0	Germany
(54) WIND TURBINE ROTOR AND	(47) 11.01.2023	(51) F03D 13/40
METHODS OF ASSEMBLING THE	(22) 15.04.2021	B60P 3/40
SAME	(54) PITCH DRIVE FOR A ROTOR BLADE	(11) EP3741992
(73) General Electric Company	OF A WIND TURBINE AND METHOD	(21) EP19175715.2
(72) KHAN, Zaeem, Ashraf	FOR OPERATING A PITCH DRIVE	(47) 11.01.2023
(31) 201213683734	(73) Siemens Gamesa Renewable Energy	(22) 21.05.2019
(32) 21.11.2012	Service GmbH	(54) TRANSPORT SYSTEM FOR A WIND
(33) United States of America	(72) Warfen, Karsten	ENERGY ASSEMBLY ROTOR BLADE
(51) F03D 1/06	Hopp, Eckart	(73) Nordex Energy SE & Co. KG
(11) EP3719297	(31) 102020002452	(72) Rieke, Johannes
(21) EP19167473.8	(32) 23.04.2020	(51) F03D 17/00
(47) 11.01.2023	(33) Germany	F03D 80/30
(22) 05.04.2019	(51) F03D 7/02	F03D 80/40
(54) BEAM FOR A WIND TURBINE BLADE	F03D 9/25	G01R 27/08
AND MANUFACTURING METHOD	(11) EP3645865	(11) EP3919740
THEREFOR	(21) EP18729661.1	(21) EP20178328.9
(73) Siemens Gamesa Renewable Energy A/ S	(47) 11.01.2023	(47) 11.01.2023
(72) Henrichsen, Soeren Randrup	(87) EP2018064842	(22) 04.06.2020
Nielsen, Mogens	03.01.2019	(54) METHOD OF MONITORING AND
(51) F03D 1/06	(22) 06.06.2018	CONTROLLING A CONDITION OF A
(11) EP3719298	(54) WIND ENERGY SYSTEM AND	WIND TURBINE ROTOR BLADE, WIND
(21) EP19167475.3	METHOD FOR CONTROLLING A WIND	TURBINE AND COMPUTER READABLE
(47) 11.01.2023	ENERGY SYSTEM	STORAGE MEDIUM
(22) 05.04.2019	(73) RWE Renewables GmbH	(73) Nordex Energy SE & Co. KG
(54) BEAM FOR A WIND TURBINE BLADE	(72) FELTES, Christian	(72) Previtali, Francesco
AND METHOD FOR MANUFACTURING	JAHN, Christian	(51) F03D 80/00
THEREFOR	THOMSEN, Nils	F03D 17/00
(73) Siemens Gamesa Renewable Energy A/ S	RUNGE, Jörn	(11) EP3927969
(72) Burchardt, Claus	(31) 102017114309	(21) EP20714930.3
Henrichsen, Soeren Randrup	(32) 28.06.2017	(47) 11.01.2023
(51) F03D 1/06	(33) Germany	(87) EP2020057274
F03D 7/02	(51) F03D 7/02	08.10.2020
(11) EP3874157	F03D 17/00	(22) 17.03.2020
(21) EP19812680.7	(11) EP3643916	(54) APPARATUS FOR AND METHOD
(47) 11.01.2023	(21) EP19205663.8	OF DETECTING ONE OR MORE
(87) EP2019080670	(47) 11.01.2023	PROPERTIES OF A ROTOR BLADE
25.06.2020	(22) 28.10.2019	DURING OPERATION OF A WIND
(22) 08.11.2019	(54) SYSTEM AND METHOD FOR	TURBINE
(54) WIND TURBINE BLADE, WIND	MONITORING ROTOR BLADE	(73) Siemens Gamesa Renewable Energy A/ S
TURBINE, METHOD FOR	CONDITION OF WIND TURBINES	(72) NAGEL, Eirik
MANUFACTURING A WIND TURBINE	(73) General Electric Company	NIEUWENHUIZEN, John
BLADE AND METHOD FOR	(72) Angel, Mathew Doyle	(31) 19166615
MAINTAINING A WIND TURBINE	(31) 201816171500	(32) 01.04.2019
	(32) 26.10.2018	(33) European Patent Office (EPO)

(51) F03D 80/50	(33) United Kingdom	(47) 11.01.2023
(11) EP3540217	(51) F04D 19/04	(22) 07.11.2019
(21) EP19162263.8	F04D 29/32	(54) TURBOCHARGER SYSTEM
(47) 11.01.2023	F04D 29/66	INCLUDING ACOUSTIC DAMPER FOR
(22) 12.03.2019	(11) EP3581801	ATTENUATING AERODYNAMICALLY
(54) APPARATUS AND METHODS FOR	(21) EP18751514.3	GENERATED NOISE FROM
MAINTENANCE OF WIND TURBINE	(47) 11.01.2023	COMPRESSOR
BLADES	(87) JP2018003627	(73) Garrett Transportation I Inc.
(73) The Boeing Company	16.08.2018	(72) Gautam, Bhushan Singh
(72) GEORGESON, Gary E.	(22) 02.02.2018	Mohtar, Hani
HAFENRICHTER, Joseph L.	(54) VACUUM PUMP AND IMBALANCE	Rigault, Alexandre
(31) 201815922822	CORRECTION METHOD	Bhat, Chaitanya
(32) 15.03.2018	(73) Edwards Japan Limited	Pees, Stephane
(33) United States of America	(72) MITSUHASHI, Keita	(31) 201816221525
(51) F03D 80/50	OOKI, Toshiyuki	(32) 16.12.2018
F03D 1/06	(31) 2017021322	(33) United States of America
(11) EP3660301	(32) 08.02.2017	(51) F04D 29/70
(21) EP18380018.4	(33) Japan	F04D 7/04
(47) 11.01.2023	(51) F04D 29/051	F04D 29/42
(22) 28.11.2018	(11) EP3734080	F24F 1/0007
(54) WIND TURBINE HUB	(21) EP20165125.4	F24F 8/90
(73) Siemens Gamesa Renewable Energy	(47) 11.01.2023	F24F 13/22
Innovation & Technology, S.L.	(22) 24.03.2020	F04D 1/14
(72) Bienes Archel, Carlos	(54) SINGLE-STAGE COMPRESSOR	F04D 29/22
(51) F03D 80/80	WITH THRUST LOAD SUPPRESSION	(11) EP3726065
F03D 80/60	SECTION	(21) EP19798518.7
(11) EP3615797	(73) Garrett Transportation I Inc.	(47) 11.01.2023
(21) EP18717825.6	(72) Nejedly, Milan	(87) CN2019112443
(47) 11.01.2023	Matsuzaki, Ryoken	10.09.2020
(87) DK2018050064	Lotterman, Jeffrey	(22) 22.10.2019
01.11.2018	(31) 201916400469	(54) WATER PUMP, AIR CONDITIONER
(22) 06.04.2018	(32) 01.05.2019	CLEANING DEVICE, WALL-MOUNTED
(54) WIND TURBINE NACELLE WITH ON-	(33) United States of America	INDOOR UNIT, AND AIR CONDITIONER
BOARD FLUID SYSTEM	(51) F04D 29/051	(73) GD Midea Air-Conditioning Equipment
(73) Vestas Wind Systems A/S	F04D 29/20	Co., Ltd.
(72) STAGHØJ, Michael	(11) EP3736448	Midea Group Co., Ltd.
TIETZE, Poul T.	(21) EP20165129.6	(72) ZHANG, Aichuan
ESCHELUND, Tommy	(47) 11.01.2023	(31) 201910159396
(31) PA201770284	(22) 24.03.2020	201920267970 U
(32) 26.04.2017	(54) SINGLE-STAGE COMPRESSOR WITH	(32) 03.03.2019
(33) Denmark	BLEED SYSTEM FOR THRUST LOAD	03.03.2019
(51) F04C 2/04	ALLEVIATION	(33) China
F04C 15/00	(73) Garrett Transportation I Inc.	China
(11) EP3443225	(72) Nejedly, Milan	(51) F15B 1/04
(21) EP16726980.2	Matsuzaki, Ryoken	F15B 21/00
(47) 11.01.2023	Lotterman, Jeffrey	E21B 33/035
(87) IT2016000095	(31) 201916409568	(11) EP3911862
19.10.2017	(32) 10.05.2019	(21) EP20703515.5
(22) 14.04.2016	(33) United States of America	(47) 11.01.2023
(54) A HOLLOW DISK PUMP OF THE	(51) F04D 29/44	(87) IB2020050297
PORTABLE TYPE WITH VARIABLE	(11) EP3658781	23.07.2020
ECCENTRICITY	(21) EP18759898.2	(22) 15.01.2020
(73) 3p Prinz S.r.l.	(47) 11.01.2023	(54) ACCUMULATOR
(72) MARIANETTI, Silvia	(87) EP2018072379	(73) OBS Technology AS
COSTA, Michele	28.03.2019	(72) OTTESTAD, Nils, Terje
(51) F04D 15/02	(22) 20.08.2018	(31) 20190053
G01F 23/26	(54) THROUGHFLOW ASSEMBLY	(32) 15.01.2019
(11) EP3707384	(73) Siemens Energy Global GmbH & Co. KG	(33) Norway
(21) EP18797050.4	(72) MARTENS, Uwe	(51) F15B 19/00
(47) 11.01.2023	PETRY, Nico	E02F 9/26
(87) GB2018053094	(31) 17192109	E04G 23/08
16.05.2019	(32) 20.09.2017	E02F 9/22
(22) 25.10.2018	(33) European Patent Office (EPO)	E02F 3/96
(54) LIQUID LEVEL SENSOR	(51) F04D 29/66	E02F 9/20
(73) Aspen Pumps Limited	F02M 35/12	(11) EP3365561
(72) HAFFENDEN, Gary	(11) EP3667101	(21) EP16857886.2
(31) 201718625	(21) EP19207591.9	(47) 11.01.2023
(32) 10.11.2017		(87) SE2016051015

27.04.2017	(47) 11.01.2023	(21) EP19763293.8
(22) 19.10.2016	(87) IB2017052447	(47) 11.01.2023
(54) AUTOMATIC TUNING OF VALVE FOR REMOTE CONTROLLED DEMOLITION ROBOT	02.11.2017	(87) JP2019008805
(73) Husqvarna AB	(22) 27.04.2017	12.09.2019
(72) OLSSON, Tommy	(54) ANTI-VIBRATION THREAD FORM	(22) 06.03.2019
THEANDER, Fredrik	(73) Infastech Intellectual Properties Pte. Ltd.	(54) RADIAL FOIL BEARING
(31) 1551347	(72) BOSTICK, Ryan	(73) IHI CORPORATION
(32) 19.10.2015	PEACOCK, Kevin	(72) OMORI, Naomichi
(33) Sweden	(31) 201662329673 P	(31) 2018041287
(51) F16B 2/00	(32) 29.04.2016	(32) 07.03.2018
F16B 21/00	(33) United States of America	(33) Japan
F16B 21/06	(51) F16B 35/00	(51) F16C 35/07
F16B 21/08	F16B 47/00	B62D 7/18
F16B 2/22	(11) EP3892870	B60B 27/00
F16B 21/07	(21) EP21171819.2	B60B 35/18
(11) EP3532735	(47) 11.01.2023	(11) EP3784916
(21) EP17921483.8	(22) 19.05.2018	(21) EP19718611.7
(47) 11.01.2023	(54) MOUNTING SYSTEM	(47) 11.01.2023
(87) TR2017050523	(73) Ronnenberg, Dieter	(87) EP2019058939
21.02.2019	Ortwein, Ernst-Georg	31.10.2019
(22) 26.10.2017	(72) Ronnenberg, Dieter	(22) 09.04.2019
(54) A CONNECTION MEMBER	Ortwein, Moritz	(54) WHEEL SUPPORT FOR A VEHICLE, IN PARTICULAR FOR A MOTOR VEHICLE, ARRANGEMENT OF A WHEEL BEARING ON A WHEEL SUPPORT OF THIS TYPE, AND VEHICLE
(73) Ford Otomotiv Sanayi Anonim Sirketi	(31) 102017005100	(73) Audi AG
(72) OZTURK, Gokmen	(32) 19.05.2017	(72) ALBL, Johannes
PEKCAKAR, Erkan	(33) Germany	BOSCH, Jakob
META, Burak	(51) F16B 39/02	FRISCH, Michael
SEZGINER, Emine Zuhre	F16B 39/04	(31) 102018206626
(31) 201615266	F16B 43/00	(32) 27.04.2018
(32) 26.10.2016	F16B 39/06	(33) Germany
(33) Turkey	(11) EP3587842	(51) F16D 1/04
(51) F16B 12/20	(21) EP17897229.5	F16D 11/10
(11) EP3938665	(47) 11.01.2023	(11) EP3896302
(21) EP20713375.2	(87) JP2017011083	(21) EP20169788.5
(47) 11.01.2023	30.08.2018	(47) 11.01.2023
(87) IB2020051861	(22) 21.03.2017	(47) 16.04.2020
17.09.2020	(54) FASTENING STRUCTURE	(54) DRIVING MECHANISM USED IN A RAILWAY WELDING MACHINE THAT OPERATES ALONG A RAILWAY TRACK
(22) 04.03.2020	(73) Bolt Engineer Co.	(73) Goldschmidt Holding GmbH
(54) JOINING DEVICE FOR TWO PANELS OF FURNITURE OR OTHER FURNISHING ITEMS	(72) SAEKI, Hiroshi	(72) Holtkamp, Stefan
(73) LEONARDO S.r.l.	(31) 2017033748	Prill, Frank
(72) CATTANEO, Carlo	(32) 24.02.2017	(51) F16D 1/08
(31) 201900003649	(33) Japan	F16D 11/08
(32) 13.03.2019	(51) F16C 19/06	(11) EP3789625
(33) Italy	F16C 41/00	(21) EP19195930.3
(51) F16B 12/42	G01M 13/04	(47) 11.01.2023
F16B 9/02	F16C 19/52	(22) 06.09.2019
F16B 12/24	F16C 33/41	(54) FLANGE ARRANGEMENT, GEARBOX, ELECTRIC MOTOR, WIND POWER STATION AND INDUSTRIAL APPLICATION
(11) EP3625464	F16C 33/58	(73) Flender GmbH
(21) EP18802698.3	F16C 33/66	(72) Schroer, Dirk
(47) 11.01.2023	F16C 35/067	(51) F16D 7/00
(87) SE2018050492	(11) EP3971430	F16D 45/00
22.11.2018	(21) EP20825459.9	(11) EP3789626
(22) 14.05.2018	(47) 11.01.2023	(21) EP19212591.2
(54) ELEMENTS AND A LOCKING DEVICE FOR AN ASSEMBLED PRODUCT	(87) JP2020023073	(47) 11.01.2023
(73) Välinge Innovation AB	24.12.2020	(22) 29.11.2019
(72) FRANSSON, Jonas	(22) 11.06.2020	(54) ONE-WAY CLUTCH FOR USE IN A NO- BACK CLUTCH DESIGN
HÅKANSSON, Niclas	(54) BEARING MONITORING DEVICE AND BEARING MONITORING METHOD	(73) Hamilton Sundstrand Corporation
(31) 1750593	(73) Minebea Mitsumi Inc.	(72) PANDIAN, Navaneethkrishnan
(32) 15.05.2017	(72) FUJIURA, Hideo	(31) 201911036313
(33) Sweden	HIRAI, Yukinori	
(51) F16B 33/02	TAKATA, Shintaro	
F16B 39/30	(31) 2019115681	
(11) EP3449139	(32) 21.06.2019	
(21) EP17788923.5	(33) Japan	
	(51) F16C 27/02	
	F16C 33/08	
	(11) EP3763954	

(32) 09.09.2019	(87) CN2018123899	(32) 14.11.2018
(33) India	28.05.2020	25.09.2018
(51) F16D 13/52	(22) 26.12.2018	(33) United States of America
F16D 43/21	(54) FULL CARBON-CERAMIC AXLE-	United States of America
(11) EP3767121	MOUNTED BRAKE DISC	(51) F16H 25/00
(21) EP19767173.8	(73) Hunan Shixin New Materials Co., Ltd.	G01D 3/02
(47) 11.01.2023	(72) XIAO, Peng	G01D 3/036
(87) JP2019007474	ZHU, Su Hua	G01D 5/22
19.09.2019	(31) 201811407595	H02K 7/06
(22) 27.02.2019	(32) 23.11.2018	(11) EP3795859
(54) CLUTCH DEVICE	(33) China	(21) EP20194227.3
(73) Kabushiki Kaisha F.C.C.	(51) F16F 1/41	(47) 11.01.2023
(72) ISOBE Kenichiro	(11) EP3387287	(22) 03.09.2020
TAKAHASHI Kenichiro	(21) EP16797893.1	(54) LINEAR ACTUATOR
YOSHIMOTO Katsu	(47) 11.01.2023	(73) NABTESCO CORPORATION
(31) 2018048909	(87) EP2016077940	(72) YASUI, Tsutomu
(32) 16.03.2018	15.06.2017	(31) 2019168655
(33) Japan	(22) 17.11.2016	(32) 17.09.2019
(51) F16D 55/226	(54) RUBBER/METAL SPRING ELEMENT	(33) Japan
F16D 65/092	(73) ContiTech Luftfedersysteme GmbH	(51) F16H 25/20
(11) EP3374655	(72) LINDENBERG, Mark	F16H 25/22
(21) EP16793911.5	(31) 102015224744	(11) EP3819523
(47) 11.01.2023	(32) 09.12.2015	(21) EP20206160.2
(87) EP2016077261	(33) Germany	(47) 11.01.2023
18.05.2017	(51) F16F 15/14	(22) 06.11.2020
(22) 10.11.2016	(11) EP3911870	(54) LINEAR MOTION SYSTEM
(54) DISC BRAKE AND PAD ASSEMBLY	(21) EP19816522.7	(73) TBI Motion Technology Co., Ltd.
(73) KNORR-BREMSE Systeme für	(47) 11.01.2023	(72) LEE, Ching-Sheng
Nutzfahrzeuge GmbH	(87) DE2019100998	WU, Tien-Chang
(72) PAHLE, Wolfgang	23.07.2020	(31) 201921918529 U
PETSCHKE, Andreas	(22) 21.11.2019	(32) 08.11.2019
(31) 102015119509	(54) CENTRIFUGAL PENDULUM	(33) China
(32) 12.11.2015	(73) Schaeffler Technologies GmbH & Co. KG	(51) F16H 47/04
(33) Germany	(72) SERGEEV, Andrey	B60K 6/365
(51) F16D 63/00	(31) 102019101166	B60K 6/445
B60T 13/68	(32) 17.01.2019	B60K 6/48
B60T 17/04	(33) Germany	B60K 6/543
(11) EP3156682	(51) F16H 1/28	(11) EP3707411
(21) EP16002105.1	F16H 57/04	(21) EP18793369.2
(47) 11.01.2023	(11) EP3499087	(47) 11.01.2023
(22) 29.09.2016	(21) EP17839294.0	(87) EP2018077734
(54) FRICTIONAL BLOCKING DEVICE	(47) 11.01.2023	16.05.2019
COMPRISING DIRECTIONAL AND	(87) JP2017027911	(22) 11.10.2018
LOCKING VALVES	15.02.2018	(54) POWER SPLIT CONTINUOUSLY
(73) Zimmer, Günther	(22) 01.08.2017	VARIABLE TRANSMISSION WITH AT
Zimmer, Martin	(54) PLANETARY GEAR DEVICE	LEAST FOUR TRAVEL RANGES
(72) Zimmer, Günther	(73) Kawasaki Jukogyo Kabushiki Kaisha	(73) ZF Friedrichshafen AG
Zimmer, Martin	(72) NISHIDA, Takunobu	(72) RECHENBACH, Philipp
(31) 202015006927 U	AKAHORI, Hirofumi	REICK, Benedikt
(32) 06.10.2015	YOSHITOMI, Mamoru	(31) 102017219999
(33) Germany	(31) 2016157892	(32) 10.11.2017
(51) F16D 65/00	(32) 10.08.2016	(33) Germany
F16D 65/12	(33) Japan	(51) F16H 55/24
(11) EP4006373	(51) F16H 3/54	B62D 5/04
(21) EP21210756.9	F16H 37/04	F16H 57/021
(47) 11.01.2023	F16H 3/00	(11) EP3816483
(22) 26.11.2021	B60K 1/00	(21) EP20204842.7
(54) DISC BRAKE FOR RAILWAY VEHICLES	F16H 3/089	(47) 11.01.2023
(73) Cofren S.r.L.	(11) EP3715669	(22) 30.10.2020
(72) DE SOCCIO, Vittorio	(21) EP19199469.8	(54) WORM REDUCER AND METHOD FOR
(31) 202000028781	(47) 11.01.2023	MANUFACTURING WORM REDUCER
(32) 27.11.2020	(22) 25.09.2019	(73) JTEKT CORPORATION
(33) Italy	(54) MULTI-SPEED GEARBOX AND THE	(72) KAWAMURA, Naofumi
(51) F16D 65/12	DRIVE AXLE MADE THEREWITH	UEDA, Hirofumi
(11) EP3770458	(73) Dana Automotive Systems Group , LLC	(31) 2019199712
(21) EP18941002.0	(72) ENGERMAN, Eric M.	(32) 01.11.2019
(47) 11.01.2023	(31) 201862767360 P	(33) Japan
	201862736440 P	

(51) F16H 59/36	(51) F16K 3/10	(31) 15165185
F16H 59/50	F16K 15/06	(32) 27.04.2015
F16H 61/16	F16K 3/08	(33) European Patent Office (EPO)
F16H 61/682	F16K 15/18	<hr/>
F16H 59/44	F04B 39/08	(51) F16L 5/04
(11) EP3901494	F04B 39/10	F16L 55/10
(21) EP20752115.4	F04B 7/00	F16L 59/14
(47) 11.01.2023	(11) EP3601799	(11) EP3372884
(87) JP2020004673	(21) EP18722402.7	(21) EP18160759.9
13.08.2020	(47) 11.01.2023	(47) 11.01.2023
(22) 06.02.2020	(87) EP2018057839	(22) 08.03.2018
(54) LEANING VEHICLE	04.10.2018	(54) FIRE PROTECTION PIPE
(73) Yamaha Hatsudoki Kabushiki Kaisha	(22) 27.03.2018	CONNECTION
(72) OHATA Shinobu	(54) PISTON COMPRESSOR VALVE AND	(73) Düker GmbH
(31) 2019019427	METHOD FOR OPERATING SAME	(72) Jäger, Oliver
(32) 06.02.2019	(73) Burckhardt Compression AG	Amthor, Elfriede
(33) Japan	(72) VOSEER, Alexandre	(31) 102017104899
<hr/>	(31) 17163175	(32) 08.03.2017
(51) F16H 61/16	(32) 27.03.2017	(33) Germany
F16H 59/18	(33) European Patent Office (EPO)	<hr/>
F16H 59/44	(51) F16K 7/12	(51) F16L 11/08
F16H 59/50	(11) EP3745004	F16L 11/12
(11) EP3901495	(21) EP20160084.8	C08L 23/16
(21) EP20753262.3	(47) 11.01.2023	B32B 1/08
(47) 11.01.2023	(22) 19.10.2007	B32B 25/10
(87) JP2020004669	(54) FLUID CONTROL VALVE	B32B 25/04
13.08.2020	(73) Tyco Fire Products LP	(11) EP2786055
(22) 06.02.2020	(72) Ringer, Yoram	(21) EP12786952.7
(54) LEAN VEHICLE	Wilkins, Roger S.	(47) 11.01.2023
(73) Yamaha Hatsudoki Kabushiki Kaisha	Frenkel, Boris	(87) EP2012072099
(72) OHATA Shinobu	(31) 887040 P	06.06.2013
(31) 2019019425	862305 P	(22) 08.11.2012
(32) 06.02.2019	(32) 29.01.2007	(54) LOW-EXTRACTION HOSE, IN
(33) Japan	20.10.2006	PARTICULAR FOR FUEL CELL
<hr/>	(33) United States of America	APPLICATIONS, AND METHOD FOR
(51) F16H 61/66	United States of America	PRODUCING IT
F16H 15/00	(51) F16K 17/04	(73) ContiTech MGW GmbH
(11) EP3864323	F16K 17/40	(72) SONT, Michael
(21) EP19871807.4	(11) EP3137797	(31) 102011055752
(47) 11.01.2023	(21) EP15722344.7	(32) 28.11.2011
(87) TR2019050853	(47) 11.01.2023	(33) Germany
16.04.2020	(87) US2015028802	<hr/>
(22) 10.10.2019	05.11.2015	(51) F16L 11/118
(54) A COLLABORATIVE ROBOT JOINT	(22) 01.05.2015	F16L 11/15
WITH CONTINUOUSLY VARIABLE	(54) PRESSURE RELEASE VALVE FOR OIL	D02G 3/12
TRANSMISSION	RECOVERY SYSTEMS	D03D 15/00
(73) IZMIR YÜKSEK TEKNOLOJİ	(73) BS&B Innovation Limited	F16L 58/10
ENSTITÜSÜ	(72) GOEHLER, Dannie	B32B 1/08
(72) DEDE, Mehmet Ismet Can	SCANTLIN, Gary	F16L 9/147
MOBEDI, Emir	(31) 201461996246 P	F16L 11/08
(31) 201815031	(32) 02.05.2014	F16L 11/12
(32) 10.10.2018	(33) United States of America	H02G 3/04
(33) Turkey	<hr/>	F16L 11/127
<hr/>	(51) F16L 5/04	B32B 3/28
(51) F16J 15/3232	A62C 2/06	B32B 7/02
F16C 19/18	H02G 3/22	B32B 15/02
F16C 33/78	H02G 3/04	B32B 15/08
F16J 15/3264	(11) EP3289266	B32B 15/18
F16J 15/3204	(21) EP16720784.4	B32B 15/20
(11) EP3653912	(47) 11.01.2023	B32B 27/12
(21) EP19207412.8	(87) EP2016059333	(11) EP3578862
(47) 11.01.2023	03.11.2016	(21) EP18747428.3
(22) 06.11.2019	(22) 27.04.2016	(47) 11.01.2023
(54) ROTARY SEAL	(54) FLAME RETARDANT SLEEVE	(87) JP2018003827
(73) Nakanishi Metal Works Co., Ltd.	(73) Hilti Aktiengesellschaft	09.08.2018
(72) SATO, Takahiko	(72) MÜNZENBERGER, Herbert	(22) 05.02.2018
AKASHI, Shinichi	ARTMANN, Hans Henning	(54) TUBE
IIZAWA, Yusuke	KÖGLER, Markus	(73) Hitachi Metals, Ltd.
(31) 2018212941	BERGHOFER, Egon	(72) MORI, Masahiro
(32) 13.11.2018		YOSHIDA, Yoshinori
(33) Japan		(31) 2017019300

(32) 06.02.2017	(33) China	(73) ArianeGroup GmbH
(33) Japan	(51) F16M 11/04	Deutsches Zentrum Für Luft- Und Raumfahrt E.V. (DLR)
(51) F16L 13/10	F16M 11/22	(72) Quatmann, Michael
F16L 13/11	F16M 13/02	Wendt, Christian
F16L 25/02	G08B 1/00	Quappen, Gerrit
F16L 25/03	(11) EP3620707	Quadt, Markus
F16L 25/12	(21) EP18192882.1	Kleineberg, Markus
(11) EP3719368	(47) 11.01.2023	Röstermund, Dirk
(21) EP19275038.8	(22) 06.09.2018	Stüve, Jan
(47) 11.01.2023	(54) WALL MOUNT AND SMART HOME SYSTEM WITH SUCH A SMART WALL MOUNT	Stefaniak, Daniel
(22) 02.04.2019	(73) Vestel Elektronik Sanayi ve Ticaret A.S.	Kolbe, Andreas
(54) ELECTRICAL ISOLATOR AND CORRESPONDING FORMING METHOD	(72) ÖZMEN, Ferhat	(31) 102019118323
(73) Crompton Technology Group Limited	(72) AKDEMİR, Onur	(32) 05.07.2019
(72) TAYLOR, Alexander Douglas BERNARD, James William	(51) F16M 11/10	(33) Germany
(51) F16L 23/00	F16M 11/20	(51) F17C 13/00
F16L 23/08	F16M 11/24	F17C 13/02
(11) EP3910223	(11) EP3870888	(11) EP3462076
(21) EP21172613.8	(21) EP19794456.4	(21) EP18197147.4
(47) 11.01.2023	(47) 11.01.2023	(47) 11.01.2023
(22) 06.05.2021	(87) EP2019078508	(22) 27.09.2018
(54) CLAMPING SYSTEM COMPRISING A COLLAR AND A PRE-ASSEMBLY CLIP	30.04.2020	(54) A METHOD AND A SYSTEM FOR MONITORING A QUANTITY RELATED TO AN ASSET
(73) Caillau	(22) 21.10.2019	(73) Silicon Controls Pty Ltd
(72) PREVOT, Fabrice	(54) CONSOLE FOR AN OPERATING UNIT OF TECHNICAL INSTALLATIONS	(72) NEUMAN, Michael Alexander St. Leger
(31) 2004716	(73) Bystronic Laser AG	CARR, Anthony Robert
(32) 13.05.2020	(72) SEIBERT, Friedemann	BATTYE, Robert William
(33) France	(31) 102018126175	(31) 2017903959
(51) F16L 29/04	(32) 22.10.2018	(32) 29.09.2017
F16L 37/34	(33) Germany	(33) Australia
F16L 37/35	(51) F16M 11/22	(51) F21K 9/238
(11) EP3833900	F16M 13/02	F21K 9/232
(21) EP19753589.1	F16M 11/16	(11) EP4025826
(47) 11.01.2023	(11) EP3599410	(21) EP20764390.9
(87) US2019045249	(21) EP19186584.9	(47) 11.01.2023
13.02.2020	(47) 11.01.2023	(87) EP2020074466
(22) 06.08.2019	(22) 16.07.2019	11.03.2021
(54) FEMALE COUPLER AND MALE NIPPLE	(54) WALL-MOUNTING ASSEMBLY	(22) 02.09.2020
(73) Parker-Hannifin Corporation	(73) Sungrow (Shanghai) Co., Ltd.	(54) A LED FILAMENT LAMP
(72) RAMASWAMY, Nagarajan	(72) YU, Haiyang	(73) Signify Holding B.V.
(31) 201862717146 P	ZENG, Bing	(72) WOUTERS, Vincent, Arnoud
(32) 10.08.2018	ZHI, Juntao	HONTELE, Bertrand, Johan, Edward
(33) United States of America	(31) 201821181762 U	(31) 19195974
(51) F16L 33/207	(32) 23.07.2018	19195817
(11) EP3677823	(33) China	(32) 06.09.2019
(21) EP18913127.9	(51) F16M 13/00	06.09.2019
(47) 11.01.2023	(11) EP3283810	(33) European Patent Office (EPO)
(87) CN2018097612	(21) EP15889408.9	European Patent Office (EPO)
03.10.2019	(47) 11.01.2023	(51) F21S 10/00
(22) 27.07.2018	(87) US2015027300	F21V 21/04
(54) TUBE CONNECTION DEVICE	20.10.2016	F21V 17/16
(73) Rifeng Enterprise (Foshan) Co., Ltd.	(22) 23.04.2015	F21S 8/04
Rifeng Enterprise Group Co., Ltd.	(54) SECURE EQUIPMENT TRANSFER SYSTEM	F21V 8/00
Rifeng Technology Co., Ltd.	(73) Nexxspan Healthcare LLC	(11) EP3771859
(72) LIN, Xiyong	(72) BALLY, Alexander	(21) EP20187558.0
DIAO, Zhenbin	COLBURN, Eric	(47) 11.01.2023
LIU, Hao	(31) 201514686439	(22) 24.07.2020
LI, Ximin	(32) 14.04.2015	(54) PANEL LAMP
CAO, Huijian	(33) United States of America	(73) Ningbo Ganpe Optoelectronics Co., Ltd.
ZHANG, Hejin	(51) F17C 3/08	(72) YU, Xiangjun
CHENG, Jiajia	(11) EP3760911	YUAN, Liu
CHEN, Wenfeng	(21) EP20184040.2	(31) 201910705107
LI, Wenting	(47) 11.01.2023	(32) 01.08.2019
(31) 201810260206	(22) 03.07.2020	(33) China
(32) 27.03.2018	(54) TANK AND METHOD	(51) F21S 41/141
		F21S 43/14
		B60Q 1/00

F21V 23/00	(54) LIGHTING DEVICE FOR VEHICLES PROVIDED WITH ROTATING LIGHTING MODULES	(87) FR2019052129 02.04.2020
F21V 23/02		(22) 13.09.2019
F21S 41/19	(73) Marelli Automotive Lighting Italy S.p.A.	(54) LIGHT GUIDE FOR A VEHICLE LIGHTING DEVICE
H05K 9/00	PSA Automobiles SA	(73) PSA Automobiles SA
(11) EP3421872	(72) BORE, Michael	(72) PERON, Rodolphe
(21) EP18179654.1	LE DALL, Christophe	ROYER, Guillaume
(47) 11.01.2023	GONCALVES, Whilk Marcelino	(31) 1858853
(22) 25.06.2018	ZATTONI, Sergio	(32) 27.09.2018
(54) LIGHTING DEVICE FOR A MOTOR VEHICLE COMPRISING A GUIDED WIRING HARNESS	PELLEGRINI, Daniele	(33) France
(73) Valeo Vision Belgique	VAGLIERA, Cristiano	
(72) HERBIN, Cyril	(51) F21S 41/153	(51) F21S 43/19
DELGRANGE, Frédéric	F21S 41/663	F21S 43/14
(31) 1756074	B60Q 1/14	F21S 45/48
(32) 29.06.2017	G02B 26/08	(11) EP3683496
(33) France	B60Q 1/08	(21) EP19188298.4
(51) F21S 41/143	H04N 9/31	(47) 11.01.2023
F21S 41/24	(11) EP3671015	(22) 25.07.2019
F21S 41/20	(21) EP18214262.0	(54) VEHICLE LUMINAIRE AND VEHICLE LAMP DEVICE
F21S 41/32	(47) 11.01.2023	(73) Toshiba Lighting & Technology Corporation
F21S 41/25	(22) 19.12.2018	(72) KOSUGI, Daisuke
(11) EP3861241	(54) METHOD FOR CORRECTING A LIGHT PATTERN AND AUTOMOTIVE LIGHTING DEVICE	(31) 2019005176
(21) EP19779791.3	(73) Valeo Vision	(32) 16.01.2019
(47) 11.01.2023	(72) MIMOUN, Mickael	(33) Japan
(87) EP2019075675	(51) F21S 41/275	(51) F21S 43/239
09.04.2020	F21S 41/20	F21S 43/245
(22) 24.09.2019	F21S 41/143	F21S 43/247
(54) OPTICAL ELEMENT FOR LIGHTING DEVICE	F21S 41/145	F21S 43/14
(73) Lumileds Holding B.V.	F21S 41/255	F21V 8/00
(72) ZOZGORNIAK, Steffen	(11) EP3517830	(11) EP3657069
(31) 18198285	(21) EP19154542.5	(21) EP19208822.7
(32) 02.10.2018	(47) 11.01.2023	(47) 11.01.2023
(33) European Patent Office (EPO)	(22) 30.01.2019	(22) 13.11.2019
(51) F21S 41/147	(54) ROAD LIGHTING DEVICE WITH A CONTROLLED CAUSTIC GENERATING SURFACE FORMING A LIGHT BEAM	(54) VEHICLE LIGHT
F21S 41/153	(73) Valeo Vision	(73) Mazda Motor Corporation
F21S 41/16	(72) LE CORRE, Jérôme	(72) YAMAMOTO, Naoki
F21S 41/24	(31) 1850755	NAKAYA, Yoshiaki
F21S 41/663	(32) 30.01.2018	WAKABAYASHI, Toshiaki
F21S 41/176	(33) France	YAMAMOTO, Takahiro
(11) EP3081849	(51) F21S 41/275	(31) 2018219747
(21) EP16165047.8	F21S 41/20	(32) 22.11.2018
(47) 11.01.2023	F21S 41/143	(33) Japan
(22) 13.04.2016	F21S 43/14	(51) F21V 5/02
(54) LIGHTING SYSTEM FOR MOTOR VEHICLE HEADLIGHT COMPRISING A SPACE-EFFICIENT LIGHTING MODULE	F21S 43/20	G02B 21/06
(73) VALEO VISION	B60Q 3/74	F21V 7/00
(72) ALBOU, Pierre	(11) EP3517829	F21V 23/02
GODBILLON, Vincent	(21) EP19154048.3	F21V 29/503
(31) 1553255	(47) 11.01.2023	F21V 29/508
(32) 14.04.2015	(22) 28.01.2019	F21V 29/67
(33) France	(54) LIGHT DEVICE WITH A CONTROLLED CAUSTIC GENERATING SURFACE FORMING A PATTERN ON A TARGET SURFACE	G02B 21/28
(51) F21S 41/148	(73) Valeo Vision	G02B 23/24
F21S 41/20	(72) LE CORRE, Jérôme	F21V 19/04
F21S 41/30	(31) 1850758	F21W 131/20
F21S 41/50	(32) 30.01.2018	(11) EP3105630
F21S 41/675	(33) France	(21) EP15706950.1
F21S 41/63	(51) F21S 43/14	(47) 11.01.2023
B60Q 1/00	F21S 43/239	(87) SG2015000039
B60Q 1/04	F21S 43/27	20.08.2015
(11) EP3431864	(11) EP3857120	(22) 11.02.2015
(21) EP17182445.1	(21) EP19794591.8	(54) ILLUMINATION UNIT
(47) 11.01.2023	(47) 11.01.2023	(73) Leica Instruments (Singapore) Pte. Ltd.
(22) 20.07.2017		(72) KUSTER, Manfred
		SCHUTZ, Marco
		KÖRBER, Ralf
		(31) 102014101673
		(32) 11.02.2014

(33) Germany	F23L 9/02	KANG, Jiyoung
(51) F21V 8/00	(11) EP3583356	LEE, David Kangseong
(11) EP2924350	(21) EP18707851.4	KWAK, Daeyoung
(21) EP14185521.3	(47) 11.01.2023	PARK, Sohee
(47) 11.01.2023	(87) EP2018052467	(31) 20190091560
(22) 19.09.2014	23.08.2018	20190031460
(54) Backlight unit and liquid crystal display device having the same	(22) 01.02.2018	(32) 29.07.2019
(73) LG Display Co., Ltd.	(54) METHOD FOR FIRING A BIOFUEL	19.03.2019
(72) Han, Young-Bae	(73) General Electric Technology GmbH	(33) Korea (Republic)
(31) 20140056736	(72) MILLIGAN, Scott Carpenter	Korea (Republic)
20140036089	HELLEWELL, Todd David	(51) F24F 5/00
(32) 12.05.2014	KUNKEL, Robert	F28D 20/02
27.03.2014	(31) 201715435740	F28F 3/06
(33) Korea (Republic)	(32) 17.02.2017	F28F 27/00
Korea (Republic)	(33) United States of America	F24D 5/10
(51) F21V 8/00	(51) F24C 7/08	F24D 19/10
G02B 19/00	(11) EP3710752	F24F 7/10
G03B 21/20	(21) EP18807715.0	F24F 13/02
G02B 27/10	(47) 11.01.2023	(11) EP3608598
G02B 27/14	(87) IB2018058821	(21) EP18781227.6
(11) EP3961090	23.05.2019	(47) 11.01.2023
(21) EP21193952.5	(22) 09.11.2018	(87) JP2018012612
(47) 11.01.2023	(54) FOOD PREPARATION SYSTEM	11.10.2018
(22) 31.08.2021	(73) BSH Hausgeräte GmbH	(22) 27.03.2018
(54) LIGHT GUIDING UNIT, LIGHT SOURCE APPARATUS, AND PROJECTOR	(72) FRANCO GUTIERREZ, Carlos	(54) HEAT STORAGE SYSTEM AND INSTALLATION METHOD FOR LATENT HEAT STORAGE MATERIAL THEREFOR
(73) Seiko Epson Corporation	MARZO ALVAREZ, Teresa Del Carmen	(73) Yazaki Energy System Corporation
(72) SAKATA, Hidefumi	PAESA GARCIA, David	(72) NAKAMURA Takuju
IWAMA, Yuichiro	PARRA BORDERÍAS, Maria	GUNJI Kai
(31) 2020146820	RODRIGUEZ LARROSA, Agostina	(31) 2017076791
(32) 01.09.2020	VILLANUEVA VALERO, Beatriz	(32) 07.04.2017
(33) Japan	(31) 201731327	(33) Japan
(51) F21V 19/02	(32) 15.11.2017	(51) F24F 7/00
(11) EP3779275	(33) Spain	F24F 12/00
(21) EP20196325.3	(51) F24F 1/00	F24F 13/30
(47) 11.01.2023	F24F 13/10	F24F 5/00
(22) 13.11.2018	F24F 1/0011	(11) EP3627061
(54) PORTABLE AND/OR MOUNTABLE LIGHT HAVING AN ADJUSTABLE LASER AIMING LIGHT	F24F 13/14	(21) EP19198822.9
(73) Streamlight, Inc.	(11) EP3604935	(47) 11.01.2023
(72) WORMAN, William D	(21) EP18841965.9	(22) 21.09.2019
ZEISLER, Jon C.	(47) 11.01.2023	(54) VENTILATION UNIT
(31) 201715817986	(87) CN2018084927	(73) České vysoké učené technické v Praze
(32) 20.11.2017	07.02.2019	(72) VCELAK, Jan
(33) United States of America	(22) 27.04.2018	MAZANEC, Vojtech
(51) F22B 1/06	(54) INDOOR AIR-CONDITIONING UNIT	MLEJNEK, Pavel
F22B 3/06	(73) GD Midea Air-Conditioning Equipment Co., Ltd.	VODICKA, Ales
F22B 33/18	(72) ZHU, Maocheng	KNY, Martin
(11) EP3465001	LI, Shengqi	ADAMOVSKY, Daniel
(21) EP17731249.3	(31) 201710642312	(31) 20180494
(47) 11.01.2023	201720949029 U	(32) 21.09.2018
(87) GB2017051601	(32) 31.07.2017	(33) Czech Republic
07.12.2017	31.07.2017	(51) F24F 13/24
(22) 02.06.2017	(33) China	F24F 7/013
(54) WATER PROCESSING SYSTEM AND METHOD	China	F24F 12/00
(73) Sowers, Hank James	(51) F24F 3/16	F24F 7/06
(72) Sowers, Hank James	F24F 13/28	(11) EP3943830
(31) 201662345139 P	F24F 13/20	(21) EP20186719.9
(32) 03.06.2016	(11) EP3712518	(47) 11.01.2023
(33) United States of America	(21) EP20160848.6	(22) 20.07.2020
(51) F23C 6/04	(47) 11.01.2023	(54) VENTILATION DEVICE AND METHOD OF NOISE REDUCTION IN A VENTILATION DEVICE
F23D 1/02	(22) 04.03.2020	(73) inVENTer GmbH
F23G 5/32	(54) AIR PURIFIER AND AIR PURIFYING SYSTEM	(72) Gottschall, Rico
F23G 7/10	(73) LG Electronics Inc.	Geisenhainer, Ralph
	Chungang University Industry Academic Cooperation Foundation	(51) F24H 4/04
	(72) JEON, Jongkeon	
	CHUNG, Haeyoung	

F24H 9/06	REUSCHEL, Dennis	(72) Chauhan, Vishal B.
F24H 9/13	STROH, Björn	Marinello, Giulia
F24D 3/08	ZAHRT, Yannik	Mruthyunjaya, Vikas C.
F24D 17/00	BLAUFELDER, David	Zhang, Kevin Y.
F24D 17/02	(51) F25B 25/00	(31) 201916399352
F24D 19/10	F24F 11/30	(32) 30.04.2019
F28D 7/10	F25B 49/00	(33) United States of America
F28D 7/14	F25B 49/02	(51) F25D 11/02
(11) EP3637012	(11) EP3821182	F25D 17/04
(21) EP19199935.8	(21) EP19745394.7	F25D 17/06
(47) 11.01.2023	(47) 11.01.2023	(11) EP3702701
(22) 26.09.2019	(87) US2019040216	(21) EP20155101.7
(54) COMBINED WALL DEVICE FOR HEATING OF DOMESTIC WATER AND WATER FOR HEATING A ROOM	16.01.2020	(47) 11.01.2023
(73) Societe Industrielle de Chauffage (SIC)	(22) 02.07.2019	(22) 24.05.2017
(72) CLEMENT, Jean-Francis	(54) DEVICE AND METHOD FOR CHILLER PLANT MANAGEMENT, COMPUTER READABLE STORAGE DEVICE AND CHILLER PLANT	(54) REFRIGERATOR
FONTBONNE, Erwan	(73) Carrier Corporation	(73) LG Electronics Inc.
SAISSET, Luc	(72) LI, Sheng	(72) KIM, Kihwang
(31) 1859296	(31) 201810745343	KANG, Sunghee
(32) 08.10.2018	(32) 09.07.2018	LEE, Donghyoung
(33) France	(33) China	(31) 20160065140
(51) F24H 9/20	(51) F25B 27/00	(32) 26.05.2016
H05B 1/02	B60P 3/20	(33) Korea (Republic)
(11) EP3578902	B60H 1/00	(51) F25D 21/14
(21) EP19305628.0	B60H 1/32	(11) EP3745060
(47) 11.01.2023	F25D 11/00	(21) EP18900654.7
(22) 16.05.2019	F25D 29/00	(47) 11.01.2023
(54) WATER HEATER PROVIDED WITH A DRY ANTI-HEATING SAFETY SYSTEM	(11) EP3635307	(87) CN2018123738
(73) Atlantic Industrie	(21) EP18734713.3	25.07.2019
(72) MONTGERMONT, Pascal	(47) 11.01.2023	(22) 26.12.2018
COLLET, Matthieu	(87) US2018036307	(54) REFRIGERATOR, PIPE ASSEMBLY, AND PIPE FIXTURE
(31) 1854920	13.12.2018	(73) Qingdao Haier Co., Ltd.
(32) 06.06.2018	(22) 06.06.2018	(72) YANG, Chun
(33) France	(54) TRANSPORT REFRIGERATION UNIT WITH AN ENERGY STORAGE DEVICE	ZHANG, Hao
(51) F25B 1/00	(73) Carrier Corporation	XIA, Enpin
F25B 30/02	(72) CHEN, Yu	(31) 201810060745
F25B 40/02	BURCHILL, Jeffrey, J.	(32) 22.01.2018
F25B 39/00	SAROKA, Mary, D.	(33) China
F25B 1/10	(31) 201762516207 P	(51) F25D 23/02
(11) EP3779325	(32) 07.06.2017	A47F 3/04
(21) EP19785252.8	(33) United States of America	(11) EP3764035
(47) 11.01.2023	(51) F25B 43/04	(21) EP18908974.1
(87) JP2019015135	F25B 45/00	(47) 11.01.2023
17.10.2019	(11) EP3446051	(87) CN2018115568
(22) 05.04.2019	(21) EP17723175.0	12.09.2019
(54) HEAT PUMP SYSTEM	(47) 11.01.2023	(22) 15.11.2018
(73) DAIKIN INDUSTRIES, LTD.	(87) US2017028235	(54) REFRIGERATOR DOOR BODY
(72) SHIBATA, Yutaka	26.10.2017	(73) Qingdao Haier Co., Ltd.
TERAI, Kou	(22) 19.04.2017	(72) DOU, Jinqiang
(31) 2018077903	(54) PURGE SYSTEM FOR CHILLER SYSTEM	REN, Shufei
(32) 13.04.2018	(73) Carrier Corporation	WANG, Meng
(33) Japan	(72) MA, Zidu	WANG, Peng
(51) F25B 9/08	RYDKIN, Ivan	(31) 201810194316
G01N 17/00	CLOUGH, Warren	(32) 09.03.2018
F25B 7/00	(31) 201662324667 P	(33) China
F25B 40/02	(32) 19.04.2016	(51) F25D 23/06
F25B 41/20	(33) United States of America	F25D 23/08
F25B 41/24	(51) F25C 1/25	(11) EP3757489
(11) EP3699515	(11) EP3734200	(21) EP20177274.6
(21) EP19158190.9	(21) EP20165721.0	(47) 11.01.2023
(47) 11.01.2023	(47) 11.01.2023	(22) 28.05.2020
(22) 20.02.2019	(22) 25.03.2020	(54) PANEL ASSEMBLY FOR A VACUUM INSULATED STRUCTURE
(54) TEMPERATURE-CONTROLLED CHAMBER AND METHOD	(54) ICEMAKER ASSEMBLY	(73) Whirlpool Corporation
(73) Weiss Technik GmbH	(73) Whirlpool Corporation	(72) Beckner, Jeffrey
(72) HAACK, Christian		Stewart, Aaron Michael
		(31) 201916455882
		(32) 28.06.2019

(33) United States of America	(87) FR2017053309	WANG, Mei
(51) F25D 23/12	07.06.2018	WANG, Hui
F25D 25/02	(22) 30.11.2017	SUN, Yiyong
(11) EP3726172	(54) DEVICE FOR DISTRIBUTING A	(31) 201710452426
(21) EP20162555.5	REFRIGERANT INSIDE TUBES OF A	(32) 15.06.2017
(47) 11.01.2023	HEAT EXCHANGER CONSTITUTING A	(33) China
(22) 11.03.2020	REFRIGERANT CIRCUIT	(51) G01B 11/06
(54) SHELF ASSEMBLY WITH WATER	(73) Valeo Systemes Thermiques	G01B 11/10
DISPENSER AND FILTRATION	(72) AZZOUZ, Kamel	G01B 11/24
SYSTEM	BLANDIN, Jérémy	G01B 15/02
(73) Whirlpool Corporation	TISSOT, Julien	G01S 7/02
(72) Choy, Kaito	LEBLAY, Patrick	G01S 7/40
Lottinville, Daniel	(31) 1661747	G01S 13/08
(31) 201916386653	(32) 30.11.2016	G01S 13/88
(32) 17.04.2019	(33) France	H01Q 15/16
(33) United States of America	(51) F28F 13/00	H01Q 19/18
(51) F26B 21/00	F28D 21/00	(11) EP3850302
F26B 3/04	(11) EP3978858	(21) EP19765209.2
F26B 3/28	(21) EP21200453.5	(47) 11.01.2023
F26B 15/12	(47) 11.01.2023	(87) EP2019073341
F26B 21/02	(22) 01.10.2021	19.03.2020
F26B 23/02	(54) THERMAL DIODE FOR THERMAL	(22) 02.09.2019
F26B 13/10	LINK BETWEEN TWO CYLINDRICAL	(54) APPARATUS AND METHOD FOR
(11) EP3765806	ELEMENTS, ON-BOARD SYSTEM	DETECTING AN OBJECT
(21) EP19720360.7	COMPRISING SUCH A DIODE.	(73) SIKORA AG
(47) 11.01.2023	(73) Commissariat à l'Energie Atomique et	(72) SIKORA, Harald
(87) EP2019000079	aux Energies Alternatives	(31) 102018122391
19.09.2019	(72) Mariotto, Mathieu	(32) 13.09.2018
(22) 15.03.2019	Carpier, Sébastien	(33) Germany
(54) NOZZLE BOX FOR A DRYING DEVICE	Champel, Bénédicte	(51) G01C 15/00
FOR DRYING PLATE-LIKE MATERIALS	Gruss, Jean-Antoine	A45C 13/18
(73) Grenzebach BSH GmbH	Peiffer, Raymond	G01S 19/16
(72) STRAETMANS, Christoph	(31) 2010101	H04W 4/029
(31) 102018002073	(32) 02.10.2020	H04W 12/126
(32) 15.03.2018	(33) France	H04W 12/12
(33) Germany	(51) G01B 5/012	G12B 9/00
(51) F28D 1/053	G01B 21/04	A45C 11/00
F28F 9/02	G01B 7/012	A45C 13/02
(11) EP3605000	(11) EP3660446	G06F 21/88
(21) EP17901970.8	(21) EP19211916.2	(11) EP3736531
(47) 11.01.2023	(47) 11.01.2023	(21) EP20182098.2
(87) JP2017012014	(22) 27.11.2019	(47) 11.01.2023
27.09.2018	(54) PROBE UNIT AND MEASURING	(22) 23.11.2016
(22) 24.03.2017	SYSTEM	(54) PROTECTIVE CASE
(54) AIR CONDITIONING DEVICE	(73) Mitutoyo Corporation	(73) Leica Geosystems AG
(73) Mitsubishi Electric Corporation	(72) KOGA, Satoshi	(72) HARRING, Thomas
(72) ONAKA, Yoji	SAITO, Akinori	BRODER, Katherine
MATSUMOTO, Takashi	KANAMORI, Hiroyuki	BÖCKEM, Burkhard
MIYAWAKI, Kosuke	(31) 2018222917	(31) 15196101
OKANO, Hiroyuki	(32) 28.11.2018	(32) 24.11.2015
KOIKE, Takanori	(33) Japan	(33) European Patent Office (EPO)
MORIMOTO, Osamu	(51) G01B 7/16	(51) G01C 21/26
(51) F28D 9/00	G01L 1/22	G01C 21/36
F28D 9/04	A61B 18/12	G01S 19/34
(11) EP3686537	A61M 25/00	G06F 1/3206
(21) EP19153601.0	(11) EP3640578	G06F 1/3234
(47) 11.01.2023	(21) EP18817780.2	(11) EP2954345
(22) 24.01.2019	(47) 11.01.2023	(21) EP13874475.0
(54) HEAT EXCHANGER	(87) CN2018090483	(47) 11.01.2023
(73) DEG Engineering GmbH	20.12.2018	(87) CN2013071367
(72) Siebenek, Karl Heinz	(22) 08.06.2018	14.08.2014
Hennerkes, Bernhard	(54) STRAIN GAUGE, PRESSURE SENSOR,	(22) 05.02.2013
(51) F28F 9/02	AND INTERVENTIONAL MEDICAL	(54) METHOD AND APPARATUS FOR
F25B 39/02	CATHETER	POWER SAVING SCHEME IN A
(11) EP3548828	(73) Shanghai Microport Ep Medtech Co., Ltd.	LOCATION SENSOR
(21) EP17817793.7	(72) SHEN, Lei	(73) Nokia Technologies Oy
(47) 11.01.2023	MIAO, Tao	(72) SHEN, Hongrui
	LIANG, Bo	LAN, Peng

WU, Jing	United States of America	(11) EP3894807
CUI, Naichen	(51) G01D 11/26	(21) EP19805610.3
(51) G01C 21/34	(11) EP3380814	(47) 11.01.2023
G01C 21/36	(21) EP16806001.0	(87) EP2019081204
B60W 30/10	(47) 11.01.2023	18.06.2020
B60W 30/16	(87) EP2016078827	(22) 13.11.2019
B60W 60/00	01.06.2017	(54) LEVEL METER
(11) EP3645362	(22) 25.11.2016	(73) Endress+Hauser SE+Co. KG
(21) EP17915824.1	(54) EXPLOSION-PROTECTED HOUSING	(72) MAYER, Winfried
(47) 11.01.2023	FOR MEANS FOR TRANSMITTING	FEIßT, Klaus
(87) US2017040355	AND RECEIVING ELECTROMAGNETIC	CHEN, Qi
03.01.2019	RADIATION	REIMELT, Ralf
(22) 30.06.2017	(73) Minimax GmbH	BLÖDT, Thomas
(54) ACCESSIBILITY METHOD AND	(72) ZIEMS, Bernd	(31) 102018132285
APPARATUS FOR AUTONOMOUS/	DITTMER, Hauke	(32) 14.12.2018
SEMI-AUTONOMOUS DRIVING	SIEMER, Dirk	(33) Germany
(73) INTEL Corporation	GROTHOFF, Axel	(51) G01F 23/2962
(72) ALVAREZ, Ignacio J.	ZÜLZER, Peter	G01N 29/024
EKANDEM, Joshua	STAMER, Arne	G01F 23/296
(51) G01C 23/00	WISNIEWSKI, Pawel	(11) EP3737921
G08G 5/00	ZIEGENBEIN, Timo	(21) EP18808347.1
(11) EP3715793	(31) 102015223362	(47) 11.01.2023
(21) EP20164351.7	(32) 25.11.2015	(87) EP2018082550
(47) 11.01.2023	(33) Germany	18.07.2019
(22) 19.03.2020	(51) G01F 1/66	(22) 26.11.2018
(54) SYSTEMS AND METHODS FOR	(11) EP3042155	(54) ULTRASONIC SENSOR AND FLUID
DETECTING AND REPRESENTING	(21) EP13758736.6	TANK COMPRISING AN ULTRASONIC
TRAFFIC MANEUVERS ON DISPLAYS	(47) 11.01.2023	SENSOR
(73) Honeywell International Inc.	(87) DK2013050281	(73) Robert Bosch GmbH
(72) BAZAWADA, Suresh	12.03.2015	(72) GERLACH, Andre
SONGA, Anil Kumar	(22) 05.09.2013	LIEBLER, Marko
SHANBHAG, Vasudev Prakash	(54) ULTRASONIC FLOW METER	SCHEUFELE, Bernd
(31) 201916365307	(73) Apator Mitors ApS	(31) 102018200324
(32) 26.03.2019	(72) DRACHMANN, Jens	(32) 11.01.2018
(33) United States of America	CALDWELL, Pol Martinez	(33) Germany
(51) G01D 5/14	(51) G01F 5/00	(51) G01G 19/02
E05F 15/603	G01F 7/00	G01G 23/37
(11) EP3712564	G01F 15/07	B66F 7/28
(21) EP20163683.4	(11) EP2869037	B66F 7/02
(47) 11.01.2023	(21) EP13810564.8	B66F 7/20
(22) 17.03.2020	(47) 11.01.2023	G01G 3/13
(54) POSITION DETECTING ASSEMBLY	(87) JP2013004053	G01G 7/02
FOR DOORS OR GATES MOVABLE BY	03.01.2014	G01G 7/06
A DRIVING DEVICE	(22) 28.06.2013	(11) EP3654002
(73) Fraba B.V.	(54) FLOW RATE MEASUREMENT DEVICE	(21) EP19176285.5
(72) Machill, Konrad	(73) Panasonic Intellectual Property	(47) 11.01.2023
Dr. Forthaus, Martin	Management Co., Ltd.	(22) 23.05.2019
(31) 102019107324	(72) ADACHI, Akihisa	(54) MOTOR VEHICLE LIFT
(32) 21.03.2019	FUJII, Yuji	(73) Nussbaum Custom Lifts GmbH
(33) Germany	NAKABAYASHI, Yuji	(72) Nußbaum, Steffen
(51) G01D 5/20	GOTOU, Hirokazu	Schanz, Benjamin
(11) EP3704439	SAKAGUCHI, Yukio	(31) 102018128429
(21) EP18874861.0	WATANABE, Aoi	(32) 13.11.2018
(47) 11.01.2023	KAWANO, Yasuharu	(33) Germany
(87) US2018041124	(31) 2012157200	(51) G01G 19/393
09.05.2019	2012157199	(11) EP3882588
(22) 06.07.2018	2012146334	(21) EP21160283.4
(54) SENSOR COIL OPTIMIZATION	(32) 13.07.2012	(47) 11.01.2023
(73) Integrated Device Technology, Inc.	13.07.2012	(22) 02.03.2021
(72) QAMA, Gentjan	29.06.2012	(54) COMBINATION WEIGHING
PASSAROTTO, Mauro	(33) Japan	APPARATUS
SPECOGNA, Ruben	Japan	(73) Ishida Co., Ltd.
(31) 201816024298	Japan	(72) KISHIKAWA, Mikio
201762580354 P	(51) G01F 23/284	OBAYASHI, Yujiro
(32) 29.06.2018	G01S 7/02	(31) 2020048639
01.11.2017	G01S 7/03	(32) 19.03.2020
(33) United States of America	H01Q 1/22	(33) Japan
	H01Q 13/02	(51) G01G 21/23

G01G 21/22	(73) Panasonic Intellectual Property Management Co., Ltd.	(72) YEE, Phillip
(11) EP3531088	(72) KAKIMOTO, Katsumi	(31) 201916456093
(21) EP18158932.6	OKUDO, Takafumi	(32) 28.06.2019
(47) 11.01.2023	HAGIHARA, Yosuke	(33) United States of America
(22) 27.02.2018	MATSUURA, Akira	(51) G01L 5/00
(54) SELF-STANDING WEIGHING SCALE	(31) 2017039984	G01N 3/40
(73) Illinois Tool Works Inc.	2017026102	G01Q 60/24
(72) CONNELL, Hugh Alexander	(32) 03.03.2017	(11) EP3953673
(31) 201802966	15.02.2017	(21) EP20714648.1
(32) 23.02.2018	(33) Japan	(47) 11.01.2023
(33) United Kingdom	Japan	(87) EP2020059521
(51) G01H 1/00	(51) G01J 3/42	15.10.2020
(11) EP3293501	G01J 3/28	(22) 03.04.2020
(21) EP17190028.5	G01J 3/10	(54) DEVICE FOR MEASURING A FORCE EXERTED ON AN OBJECT
(47) 11.01.2023	G01J 3/02	(73) ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE (EPFL)
(22) 08.09.2017	G01J 3/50	(72) KAHROBAIYAN, Mohammad Hussein
(54) APPARATUS AND METHOD FOR DETECTING ABNORMAL VIBRATION IN ROTOR	G01N 21/359	BAUR, Charles
(73) Doosan Enerbility Co., Ltd.	G01N 21/85	HENEIN, Simon
(72) KIM, Seongjoon	G01N 21/84	ZANATY, Mohamed
CHOI, Joonhyuk	(11) EP3444577	(31) 19168414
(31) 20160115332	(21) EP18188907.2	(32) 10.04.2019
(32) 08.09.2016	(47) 11.01.2023	(33) European Patent Office (EPO)
(33) Korea (Republic)	(22) 14.08.2018	(51) G01M 13/027
(51) G01H 1/00	(54) SPECTROMETRIC MEASURING HEAD FOR GARDENING, AGRICULTURAL AND FOOD APPLICATIONS	G01M 13/025
G01H 3/00	(73) Deere & Company	(11) EP3543672
B21D 55/00	(72) Schade, Peter	(21) EP18163536.8
B23Q 11/00	Klein, Helge	(47) 11.01.2023
B30B 15/26	(31) 102017214352	(22) 23.03.2018
G05B 19/00	(32) 17.08.2017	(54) BENCH FOR DYNAMIC TESTING BY ELECTROMAGNETIC CHARGING OF BEARINGS
G05B 19/042	(33) Germany	(73) Breuer-Technical-Development, en abrégé "B.T.D." SPRL
(11) EP3631387	(51) G01J 5/08	(72) BREUER, Ernst
(21) EP18728548.1	G01J 5/12	(51) G01N 1/10
(47) 11.01.2023	H04N 5/33	G01N 35/10
(87) EP2018063314	H04N 5/378	G01N 21/00
29.11.2018	(11) EP3571482	G01N 35/00
(22) 22.05.2018	(21) EP18703691.8	B01L 3/02
(54) METHOD FOR DETERMINING MATERIAL PROPERTIES OF A WORKPIECE BY AUDIO ANALYSIS OF WORKPIECE MACHINING, AND PUNCHING MACHINE AND COMPUTER PROGRAM PRODUCT	(47) 11.01.2023	B01L 3/00
(73) TRUMPF Werkzeugmaschinen GmbH + Co. KG	(87) EP2018051166	G01N 15/10
(72) BAUER, Klaus	26.07.2018	(11) EP2956754
BEUTTLER, Manuel	(22) 18.01.2018	(21) EP14751559.7
BOCKERMANN, Uwe	(54) HIGH-RESOLUTION THERMOPILE INFRARED SENSOR ARRAY	(47) 11.01.2023
LUKAS, Martin	(73) Heimann Sensor GmbH	(87) US2014016997
SIDDIQUI, Zaigham Faraz	(72) SCHIEFERDECKER, Jörg	21.08.2014
(31) 102017208909	FORG, Bodo	(22) 18.02.2014
(32) 26.05.2017	SCHNORR, Michael	(54) SYSTEMS AND METHODS FOR MULTI-ANALYSIS
(33) Germany	STORCK, Karlheinz	(73) Labrador Diagnostics LLC
(51) G01J 1/02	LENEKE, Wilhelm	(72) Holmes, Elizabeth A.
G01J 1/44	SIMON, Marion	Balwani, Sunny
H01L 27/144	(31) 102017102833	Chen, Michael
H01L 27/146	102017100910	Frankovich, John K.
G01J 5/02	(32) 13.02.2017	Frenzel, Gary
(11) EP3584550	18.01.2017	Surekha, Gangakhedkar
(21) EP18753922.6	(33) Germany	Samartha, Anekal
(47) 11.01.2023	Germany	Lath, Adrit
(87) JP2018005217	(51) G01K 1/14	Loo, Alexander
23.08.2018	(11) EP3973261	Pangarkar, Chinmay
(22) 15.02.2018	(21) EP19818360.0	Patel, Paul
(54) INFRARED SENSOR CHIP, AND INFRARED SENSOR EMPLOYING SAME	(47) 11.01.2023	Roy, Joy
	(87) US2019061453	Smith, Timothy
	30.12.2020	Young, Daniel
	(22) 14.11.2019	(31) 201414181486
	(54) ENHANCED AMBIENT TEMPERATURE DETECTION	201361805923 P
	(73) X Development LLC	

<p>201361766112 P 201313769820 201361766119 P 201361766113 P 201313769779 PCT/US2014/016548 (32) 14.02.2014 27.03.2013 18.02.2013 18.02.2013 18.02.2013 18.02.2013 14.02.2014 (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 World Intellectual Property Office (WIPO) (51) G01N 1/28 G01N 33/202 G01N 33/205 G01N 21/66 (11) EP3693720 (21) EP19156339.4 (47) 11.01.2023 (22) 11.02.2019 (54) METHOD AND APPARATUS FOR DEMOLDING AND ANALYZING A DIRECT ANALYSIS SAMPLE (73) Heraeus Elektro-Nite International N.V. (72) Cuypers, Jan Verhoeven, Jean-Paul (51) G01N 15/06 G01N 15/14 G01N 33/18 G01N 15/00 (11) EP3719476 (21) EP20167758.0 (47) 11.01.2023 (22) 02.04.2020 (54) PIPELINE COMPRISING MEASURING DEVICE FOR DETECTING PARTICLES AND APPARATUS FOR TRANSMITTING DATA OUT OF A PIPELINE (73) QUNDIS GmbH (72) DÖBEL, Christian (31) 102019204668 (32) 02.04.2019 (33) Germany (51) G01N 21/03 G01J 3/02 G01J 3/08 G01J 3/10 G01J 3/18 G01N 33/00 (11) EP3935369 (21) EP20716260.3 (47) 11.01.2023 (87) US2020020962 10.09.2020 (22) 04.03.2020</p>	<p>(54) COMPACT MULTI-PASS GAS CELL FOR MULTI-GAS SPECTRAL SENSORS (73) SI-Ware Systems (72) SABRY, Yasser M. SAKR, Mohammad SAADANY, Bassam A. ANWAR, Momen AL HARON, Mohamed H. (31) 202016808238 201962813714 P (32) 03.03.2020 04.03.2019 (33) United States of America United States of America (51) G01N 21/17 A61B 3/10 G01N 21/47 A61B 5/00 (11) EP3006918 (21) EP14801235.4 (47) 11.01.2023 (87) JP2014062929 27.11.2014 (22) 15.05.2014 (54) JONES MATRIX OCT SYSTEM AND PROGRAM FOR CARRYING OUT IMAGE PROCESSING ON MEASURED DATA OBTAINED BY SAID OCT (73) University of Tsukuba (72) YASUNO, Yoshiaki JU, Myeong Jin ITOH, Masahide (31) 2013110009 (32) 24.05.2013 (33) Japan (51) G01N 21/27 G01J 3/42 G01N 21/3563 G01N 21/55 G01J 3/28 G01J 3/10 G01J 3/02 G01N 21/47 (11) EP3431963 (21) EP18190380.8 (47) 11.01.2023 (22) 24.06.2016 (54) INFRARED IMAGING SYSTEM WITH AUTOMATIC REFERENCING (73) Agilent Technologies, Inc. (72) Ghetler, Andrew Kleczewski, Adam Tella, Richard P. (31) 201514788561 (32) 30.06.2015 (33) United States of America (51) G01N 21/47 G06K 7/14 (11) EP3155404 (21) EP15729396.0 (47) 11.01.2023 (87) EP2015062768 17.12.2015 (22) 09.06.2015 (54) APPARATUS FOR DETERMINING INFORMATION ASSOCIATED WITH</p>	<p>REFLECTION CHARACTERISTICS OF A SURFACE (73) Sanofi-Aventis Deutschland GmbH (72) BLEI, Gertrud HEUMANN, Günter (31) 14171716 (32) 10.06.2014 (33) European Patent Office (EPO) (51) G01N 21/552 G01N 21/94 G01N 21/958 B60S 1/08 B60Q 1/00 G01N 21/15 (11) EP3623797 (21) EP19196217.4 (47) 11.01.2023 (22) 09.09.2019 (54) SYSTEMS AND METHODS FOR DETECTING FOREIGN BODIES ON A WINDOW (73) Rockwell Automation Technologies, Inc. (72) TILLEMANN, Michael M. MALI, Girish (31) 201816127903 (32) 11.09.2018 (33) United States of America (51) G01N 27/02 G01R 27/22 (11) EP3327431 (21) EP17201042.3 (47) 11.01.2023 (22) 10.11.2017 (54) INDUCTIVE CONDUCTIVITY SENSOR AND METHOD FOR OPERATING AN INDUCTIVE CONDUCTIVITY SENSOR (73) Krohne Messtechnik GmbH (72) Glasmachers, Holger Mertmann, Philipp (31) 102016122800 (32) 25.11.2016 (33) Germany (51) G01N 27/22 G01K 1/024 G08B 19/02 (11) EP3913360 (21) EP21174913.0 (47) 11.01.2023 (22) 20.05.2021 (54) DEVICE FOR MEASURING PARAMETERS OF A ROAD FOR DETERMINING THE STATUS THEREOF AND MEASUREMENT METHOD (73) Meteo Omnium (72) LEBRET, Benoît (31) 2005266 (32) 20.05.2020 (33) France (51) G01N 27/406 G01N 27/407 (11) EP2786133 (21) EP12791193.1 (47) 11.01.2023 (87) EP2012073696 06.06.2013 (22) 27.11.2012 (54) METHOD FOR DETERMINING A LAMBDA VALUE OR AN OXYGEN</p>
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CONCENTRATION OF A GAS MIXTURE AND CORRESPONDING COMBUSTION ENGINE	(11) EP3788364 (21) EP18740276.3 (47) 11.01.2023	(73) Hitachi High-Tech Corporation (72) YAMASHITA Taichiro OKUSA Takenori
(73) Volkswagen AG (72) HAHN, Hermann (31) 102011087312 (32) 29.11.2011 (33) Germany	(87) IB2018000577 07.11.2019 (22) 04.05.2018	(31) 2017175332 (32) 13.09.2017 (33) Japan
(51) G01N 27/60 G01N 27/447	(54) MEASUREMENT OF HYDROCARBON CONTAMINATION IN WATER	(51) G01N 35/10 (11) EP3859348
(11) EP2944952 (21) EP15167592.3 (47) 11.01.2023	(73) ABB Schweiz AG (72) BUIJS, Henry L.	(21) EP19866062.3 (47) 11.01.2023
(22) 13.05.2015	(51) G01N 33/574 (11) EP3117216	(87) JP2019034915 02.04.2020
(54) SYSTEM FOR DETERMINING THE ZETA POTENTIAL FOR CHARACTERISING A FIXED LIQUID PHASE BORDER WITH CONTROLLED PRESSURE PROFILE APPLICATION	(21) EP15716168.8 (47) 11.01.2023 (87) SE2015050272 17.09.2015 (22) 11.03.2015	(22) 05.09.2019 (54) AUTOMATED ANALYZER (73) Hitachi High-Tech Corporation (72) MURAMATSU, Yoshiaki KAWAHARA, Tetsuji
(73) Anton Paar GmbH (72) Luxbacher, Thomas (31) 503362014 (32) 13.05.2014 (33) Austria	(54) METHOD FOR DETECTING A SOLID TUMOR CANCER	(31) 2018178431 (32) 25.09.2018 (33) Japan
(51) G01N 29/04 G01N 29/11 G01N 29/24 G01N 29/30	(73) Phadia AB (72) GRÖNBERG, Henrik (31) 1450420 1450274 (32) 04.04.2014 11.03.2014 (33) Sweden Sweden	(51) G01N 35/10 (11) EP3745140 (21) EP20177139.1 (47) 11.01.2023 (22) 28.05.2020 (54) AUTOMATED ANALYZER AND METHOD OF CONTROLLING AUTOMATED ANALYZER
(11) EP3680652 (21) EP19196534.2 (47) 11.01.2023 (22) 10.09.2019	(51) G01N 35/00 (11) EP3818378 (21) EP19746211.2 (47) 11.01.2023 (87) US2019039229 09.01.2020 (22) 26.06.2019	(73) JEOL Ltd. (72) KOJIMA, Kazushige NAKAYAMA, Yoshiyuki NAKAYAMA, Masato TOYODA, Arihiro SUGIMURA, Hiroo IKARASHI, Yuta FUKUMOTO, Yasuhiro ASAKURA, Makoto
(54) LASER BOND INSPECTION CALIBRATION SYSTEM	(54) APPARATUS FOR PROCESSING AND CATALOGING OF SAMPLES	(31) 2019102472 (32) 31.05.2019 (33) Japan
(73) The Boeing Company (72) Stewart, Alan F. Piehl, Marc J. (31) 201916245632 (32) 11.01.2019 (33) United States of America	(73) Vistapath Biosystems Inc. (72) SPONG, Timothy, N. BURLEY, Benjamin, T. (31) 201862694093 P (32) 05.07.2018 (33) United States of America	(51) G01P 3/42 B60L 3/00 G01S 17/58 G01P 21/02 G01P 7/00 G01P 3/50 G01C 21/12 G01C 21/16 G01C 25/00 B60W 40/105
(51) G01N 29/04 G01N 29/30 G01N 29/44 G01N 29/46 G01B 17/02 G01N 29/02 G01N 29/26	(31) 201862715652 P (32) 07.08.2018 (33) United States of America	(11) EP3508861 (21) EP16915188.3 (47) 11.01.2023 (87) JP2016075840 08.03.2018 (22) 02.09.2016 (54) SPEED CALCULATION DEVICE, CONTROL METHOD, PROGRAM, AND STORAGE MEDIUM
(11) EP3545295 (21) EP17817784.6 (47) 11.01.2023 (87) FR2017053237 31.05.2018 (22) 23.11.2017	(51) G01N 35/00 G01N 15/10 G01N 15/14 (11) EP3833983 (21) EP19755503.0 (47) 11.01.2023 (87) US2019045432 13.02.2020 (22) 07.08.2019	(73) Pioneer Corporation (72) KATO, Masahiro NIIHARA, Ryoko
(54) METHOD FOR TESTING WITH GUIDED WAVES	(73) Beckman Coulter, Inc. (72) RAMIREZ, Carlos A. (31) 201862715652 P (32) 07.08.2018 (33) United States of America	(87) JP2016075840 08.03.2018 (22) 02.09.2016 (54) SPEED CALCULATION DEVICE, CONTROL METHOD, PROGRAM, AND STORAGE MEDIUM
(73) Safran Commissariat à l'énergie atomique et aux énergies alternatives	(51) G01N 35/00 G01N 35/10 G01N 35/04 (11) EP3683582 (21) EP18855685.6 (47) 11.01.2023 (87) JP2018024172 21.03.2019 (22) 26.06.2018	(73) Pioneer Corporation (72) KATO, Masahiro NIIHARA, Ryoko
(72) DUCOUSSO, Mathieu Loïc JENSON, Frédéric CHAPUIS, Bastien Jacques RIBAY, Guillemette Danielle Joelle Marie TAUPIN, Laura (31) 1661518 (32) 25.11.2016 (33) France	(54) AUTOMATED ANALYZING DEVICE	(51) G01P 3/487 G01D 5/20 G01P 3/42 G01D 5/244 G01D 18/00 (11) EP3833936
(51) G01N 33/18 G01N 21/3577		

(21) EP19728655.2	(11) EP3699619	(31) 102016221027
(47) 11.01.2023	(21) EP20158184.0	(32) 26.10.2016
(87) EP2019064348	(47) 11.01.2023	(33) Germany
13.02.2020	(22) 19.02.2020	<hr/>
(22) 03.06.2019	(54) WIRING-INTEGRITY AUTOMATIC	(51) G01S 5/16
(54) SENSOR SYSTEM FOR DETERMINING	MONITORING SYSTEM HAVING	G01S 3/783
AT LEAST ONE ROTATION	IMPROVED FEATURES	G01S 1/70
CHARACTERISTIC OF A ROTATING	(73) Teknikabel S.p.A.	A61B 90/30
ELEMENT	(72) MONTANGERO, Paolo	G01B 11/00
(73) Robert Bosch GmbH	PICCINI, Andrea	G01B 11/24
(72) UTERMÖHLEN, Fabian	(31) 201900000585 U	G01B 11/26
MERZ, Andreas	(32) 20.02.2019	A61B 34/20
(31) 102018213246	(33) Italy	(11) EP3054311
(32) 07.08.2018	<hr/>	(21) EP16151382.5
(33) Germany	(51) G01R 31/52	(47) 11.01.2023
<hr/>	G01R 31/392	(22) 14.01.2016
(51) G01P 13/02	H01M 10/48	(54) POSITIONING SYSTEM AND METHOD
G01P 5/165	G01R 31/396	(73) Atracsys Sàrl
B64D 43/02	(11) EP3961235	(72) Baur, Charles
(11) EP3581942	(21) EP21800970.2	Chebira, Amina
(21) EP19179986.5	(47) 11.01.2023	Grenet, Eric
(47) 11.01.2023	(87) CN2021081241	Franzi, Edoardo
(22) 13.06.2019	06.01.2022	Hasler, David
(54) DUAL CHANNEL AIR DATA SYSTEM	(22) 17.03.2021	(31) 201514597434
WITH INERTIALLY COMPENSATED	(54) METHOD, APPARATUS, DEVICE AND	15151233
BACKUP CHANNEL	MEDIUM FOR DETECTING INTERNAL	(32) 15.01.2015
(73) ROSEMOUNT AEROSPACE INC.	SHORT-CIRCUIT FAULT OF BATTERY	15.01.2015
(72) NASLUND, Brian Brent	CELL	(33) United States of America
WINTER, John D.	(73) Contemporary Amperex Technology Co.,	European Patent Office (EPO)
BOELKE, Joel	Limited	<hr/>
(31) 201816009875	(72) HAO, Yucang	(51) G01S 7/02
(32) 15.06.2018	CHEN, Xiaobo	G01S 13/931
(33) United States of America	LI, Ting	H05K 1/02
<hr/>	(31) 202010616755	H05K 1/18
(51) G01P 15/093	(32) 30.06.2020	(11) EP3971602
G01P 15/097	(33) China	(21) EP21191238.1
G01H 9/00	<hr/>	(47) 11.01.2023
G01H 13/00	(51) G01R 33/28	(22) 13.08.2021
(11) EP3958001	G01R 33/56	(54) HEATSINK SHIELD WITH THERMAL-
(21) EP21189745.9	G01R 33/32	CONTACT DIMPLES FOR THERMAL-
(47) 11.01.2023	(11) EP3717921	ENERGY DISTRIBUTION IN A RADAR
(22) 04.08.2021	(21) EP18808351.3	ASSEMBLY
(54) OPTO-MECHANICAL RESONATOR	(47) 11.01.2023	(73) Aptiv Technologies Limited
WITH TWO OR MORE FREQUENCY	(87) EP2018082646	(72) Brandenburg, Scott
MODES	06.06.2019	Zimmerman, David Wayne
(73) Honeywell International Inc.	(22) 27.11.2018	(31) 202017023258
(72) PUCKETT, Matthew	(54) METHOD AND APPARATUS FOR	(32) 16.09.2020
WU, Jianfeng	HYPERPOLARISATION OF SPINS, IN	(33) United States of America
KRUEGER, Neil	PARTICULAR ELECTRONIC SPINS	<hr/>
TIN, Steven	(73) Commissariat à l'Energie Atomique et	(51) G01S 7/481
(31) 202016996366	aux Energies Alternatives	G01S 17/08
(32) 18.08.2020	(72) BERTET, Patrice	G01S 17/10
(33) United States of America	(31) 1761273	G01S 7/486
<hr/>	(32) 28.11.2017	G01S 17/88
(51) G01R 7/02	(33) France	G01S 7/487
H02H 3/32	<hr/>	G01F 23/284
H02H 3/33	(51) G01S 5/00	(11) EP3465268
(11) EP2757381	G01S 19/42	(21) EP16903898.1
(21) EP14151770.6	G01S 19/48	(47) 11.01.2023
(47) 11.01.2023	(11) EP3532860	(87) IB2016001210
(22) 20.01.2014	(21) EP17804056.4	07.12.2017
(54) I/O device with a current flow monitoring	(47) 11.01.2023	(22) 31.05.2016
device and use of same	(87) DE2017200114	(54) LOOP POWERED DISTANCE
(73) Phoenix Contact GmbH & Co. KG	03.05.2018	TRANSMITTER
(72) Oster, Viktor	(22) 26.10.2017	(73) ABB Schweiz AG
Säck, Klaus-Peter	(54) APPARATUS AND METHOD FOR	(72) LAPLANTE, Sylvio
(31) 102013000846	DETERMINING A GEOGRAPHICAL	GILBERT, Patrick
(32) 21.01.2013	POSITION OF A VEHICLE	COUTURE, Patrick
(33) Germany	(73) Continental Automotive Technologies	MARCEAU, Vincent
<hr/>	GmbH	MIMEAULT, Yvan
(51) G01R 31/50	(72) STÄHLIN, Ulrich	<hr/>
G01R 31/54		(51) G01S 7/481

G01S 17/95	(72) WASELIN, Jean-Philippe	G01S 19/46
G01S 7/484	GALIERE, Julien	G01S 19/25
G01S 7/486	(31) 1656697	G01S 19/26
G01S 7/487	(32) 12.07.2016	(11) EP2831626
G01S 17/10	(33) France	(21) EP12872429.1
G01S 17/58	(51) G01S 15/931	(47) 11.01.2023
G01W 1/02	G01S 7/527	(87) CA2012000293
(11) EP3754364	(11) EP3775988	03.10.2013
(21) EP18911713.8	(21) EP19717191.1	(22) 29.03.2012
(47) 11.01.2023	(47) 11.01.2023	(54) METHOD AND APPARATUS FOR
(87) JP2018013302	(87) FR2019050633	DETERMINING A POSITION OF A
03.10.2019	10.10.2019	GNSS RECEIVER
(22) 29.03.2018	(22) 20.03.2019	(73) RX NETWORKS INC.
(54) LASER RADAR DEVICE	(54) METHOD AND DEVICE FOR	(72) YOUSSEF, Mohamed
(73) Mitsubishi Electric Corporation	DETECTING OBJECTS IN THE	IZADPANAH, Ashkan
(72) KAMEYAMA, Shumpei	ENVIRONMENT OF A VEHICLE, IN THE	AFZAL, Muhammad Haris
HARAGUCHI, Eisuke	PRESENCE OF DROPLETS	AMINIAN, Behnam
KAJIYAMA, Yutaka	(73) PSA Automobiles SA	(51) G01V 1/00
KOTAKE, Nobuki	(72) GURRET, Fabien	G01V 1/04
YANAGISAWA, Takayuki	THEEL, Florian	G01V 1/16
ANDO, Toshiyuki	FLORES GONZALEZ, Jose Antonio	G01V 1/30
(51) G01S 7/4865	(31) 1852919	E21B 47/00
G01S 17/10	(32) 04.04.2018	G01V 1/24
G01S 17/931	(33) France	G01V 1/28
G01S 7/4915	(51) G01S 17/42	G01V 1/26
G01S 17/32	G01S 7/481	(11) EP3397993
G01S 17/894	G01S 7/483	(21) EP16882296.3
(11) EP3069167	G01S 7/4863	(47) 11.01.2023
(21) EP14801984.7	(11) EP3633405	(87) US2016066241
(47) 11.01.2023	(21) EP18198425.3	06.07.2017
(87) EP2014074484	(47) 11.01.2023	(22) 12.12.2016
21.05.2015	(22) 03.10.2018	(54) DATA-DRIVEN CLOCK DRIFT
(22) 13.11.2014	(54) MEASURING APPARATUS FOR	ADJUSTMENT
(54) METHOD FOR ILLUMINATING AN	GEOMETRIC 3D-SCANNING	(73) Schlumberger Technology B.V.
OBJECT AND FOR DETERMINING A	OF AN ENVIRONMENT HAVING	(72) IRANPOUR, Kambiz
DISTANCE	A PLURALITY OF EMISSION	(31) 201562272193 P
(73) Odos Imaging Ltd.	CHANNELS AND SEMICONDUCTOR	(32) 29.12.2015
(72) YATES, Chris	PHOTOMULTIPLIER SENSORS	(33) United States of America
SOFTLEY, Chris	(73) Hexagon Technology Center GmbH	(51) G01V 1/02
(31) 102013112553	(72) WOHLGENANN, Rainer	G01V 1/145
(32) 14.11.2013	HINDERLING, Jürg	G01V 1/38
(33) Germany	(51) G01S 19/21	(11) EP3289388
(51) G01S 13/34	G01S 19/42	(21) EP16786917.1
G01S 13/42	G01S 19/36	(47) 11.01.2023
G01S 13/87	G01S 19/33	(87) US2016027518
G01S 13/93	G01S 19/20	03.11.2016
G01S 7/35	(11) EP3374798	(22) 14.04.2016
(11) EP3324205	(21) EP16810238.2	(54) COHERENT SOUND SOURCE FOR
(21) EP16200114.3	(47) 11.01.2023	MARINE SEISMIC SURVEYS
(47) 11.01.2023	(87) DE2016200514	(73) Applied Physical Sciences Corp.
(22) 22.11.2016	18.05.2017	(72) MCCONNELL, James, A.
(54) DECENTRALISED RADAR SYSTEM	(22) 10.11.2016	BERKMAN, Evan, F.
(73) NXP B.V.	(54) SYSTEM FOR PLAUSIBILIZING	MURRAY, Bruce, S.
(72) Jansen, Feike Guus	SATELLITE SIGNALS OF GLOBAL	ABRAHAM, Bruce, M.
(51) G01S 13/88	NAVIGATION SYSTEMS	ROY, Daniel, A.
G01S 13/50	(73) Continental Automotive Technologies	(31) 201514700879
G01S 13/56	GmbH	(32) 30.04.2015
(11) EP3485292	(72) ANTONI, Henrik	(33) United States of America
(21) EP17748827.7	BLÜHER, Pierre	(51) G01V 1/28
(47) 11.01.2023	STÄHLIN, Ulrich	G01V 1/30
(87) FR2017051894	ZALEWSKI, Michael	G01V 1/50
18.01.2018	(31) 102016201980	(11) EP3722839
(22) 11.07.2017	102015222355	(21) EP20168296.0
(54) METHOD AND DEVICE FOR	(32) 10.02.2016	(47) 11.01.2023
DETERMINING AN OPERATIONAL	12.11.2015	(22) 06.04.2020
GEOGRAPHICAL ZONE OBSERVED	(33) Germany	(54) DETERMINING A VERTICALLY
BY A SENSOR	Germany	TRANSVERSE ISOTROPY (VTI)
(73) Rockwell Collins France	(51) G01S 19/42	ANISOTROPY ALONG A HORIZONTAL

SECTION OF A WELLBORE DRILLED INTO A FORMATION	ROCHE, Stéphanie	(33) Finland
(73) Chevron U.S.A. Inc.	(31) 1059809	(51) G02B 5/18
(72) HORNE, Stephen, Allan	(32) 26.11.2010	G02B 27/09
(31) 201962830988 P	(33) France	G02B 5/02
(32) 08.04.2019	(51) G02B 1/11	(11) EP2959331
(33) United States of America	G02B 27/00	(21) EP14705802.8
(51) G01V 8/12	B29D 11/00	(47) 11.01.2023
G01J 5/08	G09F 9/00	(87) EP2014053543
(11) EP2735891	G02F 1/1335	28.08.2014
(21) EP12194946.5	G02B 1/118	(22) 24.02.2014
(47) 11.01.2023	B82Y 20/00	(54) ELECTROMAGNETIC RADIATION-SCATTERING ELEMENT
(22) 30.11.2012	B82Y 40/00	(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(54) Proximity sensor arrangement	G02F 1/1333	(72) ECKSTEIN, Hans-Christoph
(73) ams AG	(11) EP2693238	ZEITNER, Uwe
(72) Mehrl, David	(21) EP12763653.8	(31) 102013003441
(31) 201261730131 P	(47) 11.01.2023	(32) 25.02.2013
(32) 27.11.2012	(87) JP2012059428	(33) Germany
(33) United States of America	04.10.2012	(51) G02B 5/22
(51) G01V 8/20	(22) 30.03.2012	B82Y 30/00
G01V 8/00	(54) OPTICAL ELEMENT, DISPLAY DEVICE, AND INPUT DEVICE	G01J 1/04
G01V 3/17	(73) Dexerials Corporation	B82Y 20/00
(11) EP3511745	(72) FUKUDA, Tomoo	G02B 5/00
(21) EP17848137.0	LEE, Sung-kil	(11) EP3508893
(47) 11.01.2023	ARIMA, Mitsuo	(21) EP17846303.0
(87) CN2017100720	IIDA, Fumihiko	(47) 11.01.2023
15.03.2018	KISO, Hiroyuki	(87) JP2017030403
(22) 06.09.2017	NOMURA, Yu	08.03.2018
(54) POWER ADJUSTMENT METHOD AND APPARATUS, AND HUMAN BODY SECURITY CHECK DEVICE	(31) 2011081164	(22) 24.08.2017
(73) China Communication Technology Co., Ltd.	(32) 31.03.2011	(54) LIGHT ABSORBING BODY, BOLOMETER, INFRARED RAY ABSORBING BODY, SOLAR THERMAL POWER GENERATING DEVICE, RADIANT COOLING FILM, AND METHOD FOR MANUFACTURING LIGHT ABSORBING BODY
Shenzhen Institute of Terahertz Technology and Innovation	(33) Japan	(73) Riken
(72) Qi, Chunchao	(51) G02B 1/14	(72) TAKATORI, Kentaro
ZHAO, Shukai	G02B 1/113	OKAMOTO, Takayuki
CHEN, Hanjiang	G02B 1/118	(31) 2016169692
LIU, Beibei	(11) EP3026469	(32) 31.08.2016
(31) 201610808565	(21) EP15194992.2	(33) Japan
(32) 07.09.2016	(47) 11.01.2023	(51) G02B 5/30
(33) China	(22) 17.11.2015	G02F 1/13363
(51) G01V 8/20	(54) OPTICAL ELEMENT AND METHOD FOR PRODUCING OPTICAL ELEMENT	(11) EP2960693
H01H 35/00	(73) Canon Kabushiki Kaisha	(21) EP15174013.1
(11) EP3270189	(72) ABE, Keiko	(47) 11.01.2023
(21) EP17176859.1	NAKAYAMA, Tomonari	(22) 26.06.2015
(47) 11.01.2023	(31) 2014240621	(54) OPTICAL FILM, MANUFACTURING METHOD THEREOF, AND DISPLAY DEVICE
(22) 20.06.2017	(32) 27.11.2014	(73) Samsung Electronics Co., Ltd
(54) MULTIPLE-OPTICAL-AXIS PHOTOELECTRIC SENSOR	(33) Japan	Samsung SDI Co., Ltd.
(73) Omron Corporation	(51) G02B 5/18	(72) GAM, Sang ah
(72) NISHIUCHI, Satoshi	G02B 6/00	KONG, Hye Young
FUKUMOTO, Tetsuya	G02B 26/08	KIM, Hyung Jun
TAKIGUCHI, Nobuchika	G02B 27/09	CHOI, Hyun-Seok
YAMAJI, Takamasa	C23C 16/01	JUNG, Myung Sup
(31) 2016138846	C23C 16/04	(31) 20150088237
(32) 13.07.2016	H01L 21/02	20140080188
(33) Japan	(11) EP3631535	14198798
(51) G02B 1/11	(21) EP18809239.9	(32) 22.06.2015
(11) EP3617754	(47) 11.01.2023	27.06.2014
(21) EP19198544.9	(87) FI2018050383	18.12.2014
(47) 11.01.2023	06.12.2018	(33) Korea (Republic)
(22) 24.11.2011	(22) 22.05.2018	Korea (Republic)
(54) TRANSPARENT SUBSTRATE COMPRISING AN ANTI-GLARE COATING	(54) METHOD OF MANUFACTURING A HEIGHT-MODULATED OPTICAL DIFFRACTIVE GRATING	European Patent Office (EPO)
(73) SAINT-GOBAIN GLASS FRANCE	(73) Dispelix Oy	
(72) GERARDIN, Hadia	(72) VARTIAINEN, Ismo	
	RAHOMÄKI, Jussi	
	ERDMANIS, Mikhail	
	(31) 20175504	
	(32) 02.06.2017	

(51) G02B 5/30 H01Q 15/24	(51) G02B 6/12 G01R 31/317	G02B 27/58 G06T 3/40
(11) EP4024098	(11) EP3574333	(11) EP3650905
(21) EP20217595.6	(21) EP18704164.5	(21) EP19205973.1
(47) 11.01.2023	(47) 11.01.2023	(47) 11.01.2023
(22) 29.12.2020	(87) EP2018051939 02.08.2018	(22) 29.10.2019
(54) A POLARIZER FOR ELECTROMAGNETIC RADIATION	(22) 26.01.2018	(54) IMPROVED METHOD AND DEVICES FOR MICROSCOPY WITH STRUCTURED ILLUMINATION
(73) INL - International Iberian Nanotechnology Laboratory	(54) DEVICE AND METHOD FOR TESTING PHOTONIC INTEGRATED CIRCUITS	(73) Carl Zeiss Microscopy GmbH
(72) CHÍCHARO, José Alexandre de Nóbrega BORME, Jérôme Gilles Ollivier ALPUIM, João Pedro Santos Hall Agorreta	(73) Carl Zeiss SMT GmbH (72) HÜBNER, Philipp RICHTER, Stefan	(72) Kleppe, Ingo Novikau, Yauheni
(51) G02B 6/00 G02F 1/1335	(31) 102017101626 (32) 27.01.2017 (33) Germany	(31) 102018009056 (32) 12.11.2018 (33) Germany
(11) EP3479168	(51) G02B 6/25 B23K 26/362	(51) G02B 26/08 B81B 3/00
(21) EP17819113.6	G02B 6/38	(11) EP3931623
(47) 11.01.2023	(11) EP3704522	(21) EP20713173.1
(87) CN2017088552 04.01.2018	(21) EP18797379.7 (47) 11.01.2023	(47) 11.01.2023
(22) 16.06.2017	(87) US2018056161 09.05.2019	(87) EP2020055000 03.09.2020
(54) VIEWING ANGLE CONTROL DEVICE AND DISPLAY APPARATUS	(22) 16.10.2018	(22) 26.02.2020
(73) BOE Technology Group Co., Ltd. (72) Ji, Chunyan	(54) METHOD FOR LASER CLEAVING OPTICAL FIBERS	(54) MICROMECHANICAL STRUCTURE AND METHOD FOR PROVIDING SAME
(31) 201610500778	(73) Corning Optical Communications LLC	(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(32) 29.06.2016	(72) CARBERRY, Joel Patrick CHEN, Minghan	(72) DRABE, Christian KAISER, Bert
(33) China	LI, Ming-Jun LIU, Anping	(31) 102019202656 102019202658
(51) G02B 6/12	NAYAK, Barada Kanta	(32) 27.02.2019 27.02.2019
(11) EP3580592	(31) 201762579188 P (32) 31.10.2017 (33) United States of America	(33) Germany Germany
(21) EP18704958.0	(51) G02B 6/44 EP3584617	(51) G02B 27/00 A61B 3/113 G06K 9/00 G06T 7/73 G06V 40/18 G02B 27/01
(47) 11.01.2023	(21) EP18753890.5 (47) 11.01.2023	(11) EP3757655
(87) EP2018053219 16.08.2018	(87) JP2018003976 23.08.2018	(21) EP20182046.1
(22) 08.02.2018	(22) 06.02.2018	(47) 11.01.2023
(54) T-SHAPED ARRAYED WAVEGUIDE GRATING	(54) OPTICAL FIBER CABLE	(22) 24.06.2020
(73) Rockley Photonics Limited	(73) Fujikura Ltd.	(54) METHOD AND SYSTEM FOR 3D CORNEA POSITION ESTIMATION
(72) TRITA, Andrea	(72) KAJI Tomoaki TOMIKAWA Kouji	(73) Tobii AB
(31) 201715643399 201762456613 P	OSATO Ken	(72) Redz, Anna Ollesson, Niklas Masko, David Ivarsson, Magnus
(32) 06.07.2017	(31) 2017029056 (32) 20.02.2017 (33) Japan	(31) 1950825
08.02.2017	(51) G02B 13/04 A61B 1/00 G02B 9/12 G02B 13/00 G02B 23/24	(32) 28.06.2019
(33) United States of America United States of America	(11) EP3457190 (21) EP16901668.0 (47) 11.01.2023	(33) Sweden
(51) G02B 6/12 A61B 5/00	(87) JP2016064127 16.11.2017	(51) G02B 27/01 (11) EP3765888 (21) EP19711323.6 (47) 11.01.2023
(11) EP3538936	(22) 12.05.2016	(87) EP2019056325 19.09.2019
(21) EP17804774.2	(54) IMAGING OPTICAL SYSTEM	(22) 13.03.2019
(47) 11.01.2023	(73) Nalux Co. Ltd.	(54) METHOD FOR THE USER-SPECIFIC CALIBRATION OF A DISPLAY APPARATUS, WEARABLE ON THE HEAD OF A USER, FOR AN AUGMENTED PRESENTATION
(87) US2017061378 17.05.2018	(72) ISHII, Kenta SEKI, Daisuke	(73) tooz technologies GmbH
(22) 13.11.2017	(51) G02B 21/00 G02B 21/36	
(54) FLEXIBLE OPTICAL WAVEGUIDES AND METHODS FOR MANUFACTURING FLEXIBLE OPTICAL WAVEGUIDES		
(73) The Charles Stark Draper Laboratory Inc.		
(72) WHEELER, Jesse J. REGISTER, Joseph J. KUMAR, Parshant SEGURA, Carlos A. LISSANDRELLO, Charles A. LEBLANC, John J.		
(31) 201662421785 P (32) 14.11.2016 (33) United States of America		

(72) ALVAREZ DIEZ, Cristina DAVIDKOV, Momchil WEGENDT, Holger	(11) EP3070513 (21) EP16152981.3 (47) 11.01.2023	(72) SIM, Sujin KIM, Minh LEE, Uihyung
(31) 102018105917 (32) 14.03.2018	(22) 27.01.2016 (54) HEAD-MOUNTABLE DISPLAY SYSTEM	JUNG, Yongmin JOUNG, Juyoung
(33) Germany	(73) Sony Interactive Entertainment Inc.	(51) G02F 1/167
(51) G02B 27/01	(72) BICKERSTAFF, Ian Henry	G02F 1/1675
B60K 35/00	RAGHOEBARDAJAL, Sharwin Winesh	(11) EP3616001
G01C 21/34	BENSON, Simon Mark	(21) EP17913732.8
G01C 21/36	(31) 201501985	(47) 11.01.2023
(11) EP3717954	(32) 06.02.2015	(87) US2017037183
(21) EP18796921.7	(33) United Kingdom	20.12.2018
(47) 11.01.2023	(51) G02C 3/02	(22) 13.06.2017
(87) EP2018079957	A61F 9/02	(54) VAPOR BARRIER FOR E-PAPER
06.06.2019	G21F 3/02	(73) Hewlett-Packard Development Company, L.P.
(22) 01.11.2018	G02C 5/14	(72) KELEKAR, Rajesh
(54) METHOD FOR DISPLAYING THE COURSE OF A TRAJECTORY IN FRONT OF A VEHICLE OR AN OBJECT	G02C 5/00	(51) G02F 1/295
BY MEANS OF A DISPLAY UNIT, AND	G02C 11/00	(11) EP3561587
DEVICE FOR CARRYING OUT THE	(11) EP3761930	(21) EP19170718.1
METHOD	(21) EP19723153.3	(47) 11.01.2023
(73) Volkswagen Aktiengesellschaft	(47) 11.01.2023	(22) 23.04.2019
(72) KLEEN, Andro	(87) FR2019050868	(54) OPTICAL PHASED ARRAY BASED ON EMITTERS DISTRIBUTED AROUND PERIMETER
WITTKÄMPER, Michael	24.10.2019	(73) Honeywell International Inc.
WYSZKA, Robert Jan	(22) 12.04.2019	(72) PUCKETT, Matthew Wade
SADOVITCH, Vitalij	(54) IMPROVED PROTECTIVE EYEGLASS FRAMES AGAINST IONIZING RADIATION AND RADIOAPROTECTION	KRUEGER, Neil A.
(31) 102017221488	EYEGLASSES COMPRISING SUCH FRAME	(31) 201916359789
(32) 30.11.2017	(73) Orano Recyclage	201862663897 P
(33) Germany	(72) JEHANNO, Jacky	(32) 20.03.2019
(51) G02B 27/01	(31) 1853320	27.04.2018
G02C 9/04	(32) 16.04.2018	(33) United States of America
(11) EP3791227	(33) France	United States of America
(21) EP19728741.0	(51) G02F 1/13	(51) G02F 1/35
(47) 11.01.2023	G02F 1/1333	G02F 1/365
(87) IL2019050522	B32B 38/18	(11) EP3385784
14.11.2019	B32B 17/00	(21) EP18161911.5
(22) 07.05.2019	B32B 17/10	(47) 11.01.2023
(54) SMARTPHONE-ASSISTED PORTABLE AUGMENTED REALITY (AR) DEVICE AND CLIP-ON UNIT FOR ADJUSTABLE ATTACHMENT TO A USER'S SPECTACLES	C03B 23/00	(22) 15.03.2018
(73) Veeride Ltd.	G06F 1/16	(54) OPTOELECTRONIC DEVICE FOR GENERATING A FREQUENCY COMB
(72) LAPIDOT, Zvi	G09F 9/30	(73) COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES
TIROSH, Ehud	H01L 51/52	(72) SCIANCALEPORE, Corrado
ARNON, Oded	B65H 15/00	CASALE, Marco
SAMET, Uri	(11) EP3688746	EL DIRANI, Houssein
(31) 25927618	(21) EP17926342.1	(31) 1752226
(32) 10.05.2018	(47) 11.01.2023	(32) 17.03.2017
(33) Israel	(87) KR2017012103	(33) France
(51) G02B 27/42	04.04.2019	(51) G03B 11/04
G02B 1/04	(22) 30.10.2017	G03B 15/03
G02B 27/01	(54) APPARATUS FOR BONDING A CURVED DISPLAY	G03B 17/55
(11) EP3256901	(73) LG Electronics Inc.	H04N 5/225
(21) EP16702574.1	(72) KIM, Daehong	G03B 17/02
(47) 11.01.2023	(31) 20170127389	(11) EP3244602
(87) EP2016052261	(32) 29.09.2017	(21) EP17169857.4
18.08.2016	(33) Korea (Republic)	(47) 11.01.2023
(22) 03.02.2016	(51) G02F 1/13357	(22) 08.05.2017
(54) OPTICAL ELEMENT	F21V 8/00	(54) IMAGE PICKUP APPARATUS SUCH AS NETWORK CAMERA, AND IMAGE MONITORING SYSTEM
(73) tooz technologies GmbH	(11) EP3760919	(73) Canon Kabushiki Kaisha
(72) SCHUSTER, Karl-Heinz	(21) EP19913093.1	(72) KIMURA, Yasunori
(31) 102015102012	(47) 11.01.2023	(31) 2017062928
(32) 12.02.2015	(87) KR2019001337	2016095440
(33) Germany	06.08.2020	(32) 28.03.2017
(51) G02B 30/22	(22) 31.01.2019	
G02B 27/01	(54) BACKLIGHT UNIT AND DISPLAY DEVICE COMPRISING SAME	
	(73) LG Electronics Inc.	

11.05.2016	G06N 3/06	(31) 2013240148
(33) Japan	G05B 19/418	(32) 20.11.2013
Japan	G06N 20/00	(33) Japan
(51) G03B 17/14	G06Q 10/10	(51) G03G 21/16
(11) EP3076237	G06N 3/08	G03G 21/18
(21) EP16163139.5	(11) EP3953765	G03G 15/08
(47) 11.01.2023	(21) EP20709599.3	(11) EP3761121
(22) 31.03.2016	(47) 11.01.2023	(21) EP20181560.2
(54) APPARATUS BODY OF IMAGE PICKUP	(87) EP2020056653	(47) 11.01.2023
APPARATUS AND LENS ADAPTER	15.10.2020	(22) 27.11.2015
FOR EQUIPPING INTERCHANGEABLE	(22) 12.03.2020	(54) CARTRIDGE, MEMBER
LENS TO APPARATUS BODY	(54) SYSTEMS AND METHODS FOR	CONSTITUTING CARTRIDGE, AND
(73) Canon Kabushiki Kaisha	ADJUSTING PREDICTION MODELS	IMAGE FORMING APPARATUS
(72) IINUMA, Futoshi	BETWEEN FACILITY LOCATIONS	(73) CANON KABUSHIKI KAISHA
(31) 2015071988	(73) ASML Netherlands B.V.	(72) SATO, Masaaki
2015071987	(72) HUBAUX, Arnaud	KUBO, Yukio
(32) 31.03.2015	ONVLEE, Johannes	MUNETSUGU, Hiroyuki
31.03.2015	(31) 19175717	WADA, Koji
(33) Japan	19168014	(31) 2014242601
Japan	(32) 21.05.2019	2014242578
(51) G03B 17/17	09.04.2019	2014242602
H04N 5/355	(33) European Patent Office (EPO)	2014242577
G03B 11/00	European Patent Office (EPO)	(32) 28.11.2014
G03B 15/00	(51) G03G 15/00	28.11.2014
H04N 5/225	B32B 25/00	28.11.2014
H04N 5/235	F16C 13/00	28.11.2014
G03B 19/07	G03G 15/02	(33) Japan
G06T 5/50	(11) EP4024135	Japan
H04N 5/232	(21) EP19943790.6	Japan
H04N 5/359	(47) 11.01.2023	Japan
(11) EP3410693	(87) JP2019033944	(51) G04B 13/02
(21) EP16888165.4	04.03.2021	G04B 1/16
(47) 11.01.2023	(22) 29.08.2019	G04B 15/14
(87) JP2016086590	(54) ELECTROCONDUCTIVE ROLL	(11) EP3584640
03.08.2017	(73) NOK Corporation	(21) EP19183765.7
(22) 08.12.2016	(72) OURA Kosuke	(47) 11.01.2023
(54) IMAGING DEVICE AND IMAGE DATA	SUZUKI Shogo	(22) 13.06.2016
GENERATION METHOD	FUKUOKA Satoshi	(54) TIMEPIECE OSCILLATOR
(73) FUJIFILM Corporation	SASAKI Kenji	(73) ROLEX SA
(72) ONO, Shuji	(51) G03G 15/08	(72) LINCK, Vannina
(31) 2016012537	G03G 21/20	(51) G05B 9/02
(32) 26.01.2016	(11) EP3819710	G05B 19/042
(33) Japan	(21) EP19838152.7	(11) EP3440517
(51) G03F 1/38	(47) 11.01.2023	(21) EP17713207.3
G03F 1/48	(87) CN2019074120	(47) 11.01.2023
(11) EP3330795	23.01.2020	(87) EP2017056553
(21) EP16830864.1	(22) 31.01.2019	12.10.2017
(47) 11.01.2023	(54) TONER CARTRIDGE WITH A	(22) 20.03.2017
(87) KR2016008299	PRESSURIZING DEVICE	(54) BUS SUBSCRIBER AND METHOD FOR
02.02.2017	(73) Tangshan Caofeidian Imaging	OPERATING A BUS SUBSCRIBER
(22) 28.07.2016	Technology Ltd. Co.	(73) Eaton Intelligent Power Limited
(54) PHOTOMASK, LAMINATE	(72) CHEN, Bo	Corporation
COMPRISING PHOTOMASK,	WANG, Hongbin	(72) CULCA, Horea, Stefan
PHOTOMASK PREPARATION	(31) 201810782270	BOECKER, Olaf
METHOD, AND PATTERN FORMING	(32) 17.07.2018	(31) 102016106531
METHOD USING PHOTOMASK	(33) China	(32) 08.04.2016
(73) LG Chem, Ltd.	(51) G03G 15/20	(33) Germany
(72) SON, Yong Goo	(11) EP2876503	(51) G05B 13/02
LEE, Kiseok	(21) EP14193703.7	G05B 19/19
LEE, Seung Heon	(47) 11.01.2023	(11) EP3887911
(31) 20150106833	(22) 18.11.2014	(21) EP19832927.8
(32) 28.07.2015	(54) Fixing apparatus	(47) 11.01.2023
(33) Korea (Republic)	(73) CANON KABUSHIKI KAISHA	(87) EP2019086426
(51) G03F 7/20	(72) Suzumi, Masahiko	25.06.2020
G06Q 10/04	Omata, Masahito	(22) 19.12.2019
G06Q 10/06	Ikegami, Shoichiro	(54) METHOD FOR CONTROLLING AN
G06Q 50/04	Taguchi, Sho	AUTOMATION PROCESS IN REAL
G06N 3/04	Nakada, Takeharu	TIME

(73) Beckhoff Automation GmbH	(54) CONTROL DEVICE FOR WORK MACHINE	(51) G05B 19/418
(72) NEUMANN, Klaus		G05B 19/05
(31) 102018133058	(73) Citizen Watch Co., Ltd.	G05B 9/03
(32) 20.12.2018	Citizen Machinery Co., Ltd.	(11) EP3650962
(33) Germany	(72) WATABE, Shuichi	(21) EP18828549.8
(51) G05B 17/02	MATSUMOTO, Hitoshi	(47) 11.01.2023
(11) EP3564761	(31) 2017068650	(87) JP2018025185
(21) EP19172140.6	(32) 30.03.2017	10.01.2019
(47) 11.01.2023	(33) Japan	(22) 03.07.2018
(22) 01.05.2019	(51) G05B 19/401	(54) CONTROL SYSTEM, AND CONTROL METHOD
(54) RECONFIGURABLE PREDICTIVE AND SIMULATIVE DIGITAL PLATFORM FOR MULTI-STAGE PROCESSING FACILITIES	G05B 19/404	(73) Omron Corporation
(73) Accenture Global Solutions Limited	(11) EP3542234	(72) SAWADA, Shigenori
(72) ALIFANTIS, Thanos	(21) EP17804438.4	MUNETI, Yasuo
ASHRAF, Shereen	(47) 11.01.2023	(31) 2017133765
BANERJI, Rohit	(87) EP2017001288	(32) 07.07.2017
GATEHOUSE, William Richard	24.05.2018	(33) Japan
HOUARI, Yassine	(22) 07.11.2017	(51) G05B 23/02
MARKIDES, Loizos	(54) METHOD FOR DETERMINING THE AXLE LOAD ON LINEAR AND ROUND AXLES	(11) EP2856270
MEGER, Marius	(73) Rheinisch-Westfälische Technische Hochschule (RWTH) Aachen	(21) EP13728456.8
NICHOLLS, Jan Andre	(72) FEY, Marcel	(47) 11.01.2023
SCOLOZZI, Giorgio Michele	EPPLE, Alexander	(87) FR2013051107
WEICHENBERGER, Jurgen	KEHNE, Sebastian	05.12.2013
(31) 201815971805	BRECHER, Christian	(22) 22.05.2013
(32) 04.05.2018	(31) 102016013890	(54) INFORMATION PROCESSING SYSTEM FOR MONITORING A COMPLEX SYSTEM
(33) United States of America	(32) 21.11.2016	(73) Safran Aircraft Engines
(51) G05B 19/042	(33) Germany	(72) LE GONIDEC, Serge
(11) EP3862824	(51) G05B 19/414	MALIKOV, Dimitri
(21) EP20155390.6	(11) EP3770707	BERECHET, Ion
(47) 11.01.2023	(21) EP20196897.1	BERECHET, Stefan
(22) 04.02.2020	(47) 11.01.2023	(31) 1254902
(54) INTERFACE MODULE FOR CONFIGURING AND PARAMETRIZING A FIELD BUS SUBSCRIBER	(22) 11.04.2012	(32) 28.05.2012
(73) Siemens Aktiengesellschaft	(54) INDUSTRIAL CONTROL SYSTEM WITH DISTRIBUTED MOTION PLANNING	(33) France
(72) Weber, Tobias	(73) Rockwell Automation Technologies, Inc.	(51) G05B 23/02
Ramm, Enrico	(72) Chaffee, Mark	(11) EP3281073
Schneider, Dirk	(31) 201161474054 P	(21) EP16718796.2
(51) G05B 19/042	201161474073 P	(47) 11.01.2023
(11) EP3705955	201161474027 P	(87) US2016026612
(21) EP20160715.7	201161474042 P	13.10.2016
(47) 11.01.2023	(32) 11.04.2011	(22) 08.04.2016
(22) 03.03.2020	11.04.2011	(54) METHOD AND SYSTEM FOR MANAGING PLANT ALARM SYSTEMS
(54) METHOD FOR SECURE COMMUNICATION BETWEEN A FIELD DEVICE FOR AUTOMATION TECHNOLOGY AND A TERMINAL AND SYSTEM FOR SECURE COMMUNICATION BETWEEN A FIELD DEVICE AND A TERMINAL	11.04.2011	(73) General Electric Company
(73) Krohne Messtechnik GmbH	(33) United States of America	(72) CHILDS, Lester Dwine
(72) Hottgenroth, Wolfgang	United States of America	CHATTERJI, Gautam
(31) 102019106049	United States of America	FRICAUD, Benjamin Hubert
(32) 08.03.2019	United States of America	PARDEE, George Francis
(33) Germany	United States of America	(31) 201615092890
(51) G05B 19/18	(51) G05B 19/418	201562144599 P
B23Q 15/00	B62D 65/02	(32) 07.04.2016
G05B 19/4155	G01B 5/00	08.04.2015
G05B 19/414	G01B 21/04	(33) United States of America
B23Q 37/00	(11) EP4043325	United States of America
(11) EP3582040	(21) EP22155909.9	(51) G05D 1/00
(21) EP18776610.0	(47) 11.01.2023	G06Q 10/06
(47) 11.01.2023	(22) 09.02.2022	(11) EP3646128
(87) JP2018005907	(54) METHOD FOR TESTING POSITIONING DEVICES	(21) EP18743612.6
04.10.2018	(73) MAGNA STEYR Fahrzeugtechnik GmbH & Co KG	(47) 11.01.2023
(22) 20.02.2018	(72) GFOELLNER, Michael	(87) US2018038010
	KRIBERNEGG, Christoph	03.01.2019
	NEUHOLD, Werner	(22) 18.06.2018
	(31) 102021201392	(54) HUMAN SUPERVISION OF AN AUTOMATED DRIVING SYSTEM
	(32) 15.02.2021	(73) UATC, LLC
	(33) Germany	(72) ZYCH, Noah
		(31) 201715638739

(32) 30.06.2017	DETECTION APPARATUS EQUIPPED	(11) EP3629126
(33) United States of America	IN ROBOTIC VACUUM CLEANER	(21) EP19207228.8
(51) G05D 1/02	(73) Yujin Robot Co., Ltd.	(47) 11.01.2023
(11) EP3401750	(72) SHIN, Kyung Chul	(22) 25.03.2015
(21) EP16883134.5	PARK, Seong Ju	(54) INPUT DEVICE ATTACHMENT
(47) 11.01.2023	KWON, Ji Wook	(73) Microsoft Technology Licensing, LLC
(87) CN2016093123	LEE, Jae Young	(72) LONGO, Thomas
13.07.2017	(31) 20170105715	HILL, Andrew William
(22) 03.08.2016	20160165081	LEE, Eugene
(54) METHOD AND DEVICE FOR	20160161693	WISE, James
RETURNING ROBOTS FROM SITE	(32) 21.08.2017	(31) 201414229466
(73) Zhejiang Libiao Robots Co., Ltd.	06.12.2016	(32) 28.03.2014
(72) ZHU, Jianqiang	30.11.2016	(33) United States of America
XU, Juejing	(33) Korea (Republic)	(51) G06F 1/16
(31) 201610003129	Korea (Republic)	(11) EP3629125
201610005062	Korea (Republic)	(21) EP19207227.0
(32) 04.01.2016	(51) G05D 1/02	(47) 11.01.2023
04.01.2016	G01C 21/34	(22) 25.03.2015
(33) China	G01C 21/20	(54) INPUT DEVICE ATTACHMENT
China	(11) EP3567447	(73) Microsoft Technology Licensing, LLC
(51) G05D 1/02	(21) EP18742359.5	(72) LONGO, Thomas
A47L 11/24	(47) 11.01.2023	HILL, Andrew William
A47L 5/30	(87) CN2018073113	LEE, Eugene
H02J 7/00	26.07.2018	WISE, James
(11) EP3688541	(22) 18.01.2018	(31) 201414229466
(21) EP18857524.5	(54) PATH PLANNING METHOD AND	(32) 28.03.2014
(47) 11.01.2023	DEVICE	(33) United States of America
(87) CN2018106968	(73) Huawei Technologies Co., Ltd.	(51) G06F 1/16
28.03.2019	(72) BAO, Dinghua	E05B 13/10
(22) 21.09.2018	ZHANG, Zhijun	E05B 65/00
(54) AUTONOMOUS MOBILE ROBOT,	(31) 201710035221	(11) EP3876075
METHOD FOR DOCKING AN	(32) 18.01.2017	(21) EP21155807.7
AUTONOMOUS MOBILE ROBOT,	(33) China	(47) 11.01.2023
CONTROL DEVICE AND SMART	(51) G05G 1/10	(22) 08.02.2021
CLEANING SYSTEM	D06F 34/30	(54) ELECTRONIC DEVICE
(73) Shenzhen Rock Times Technology Co.,	(11) EP3631596	(73) Pegatron Corporation
Ltd.	(21) EP18724199.7	(72) CHANG, Chun-Fu
(72) WANG, Lei	(47) 11.01.2023	CHEN, Hsiao-Fan
XIE, Haojian	(87) EP2018061849	HSIEH, I-Tien
(31) 201710875075	06.12.2018	(31) 109107334
(32) 25.09.2017	(22) 08.05.2018	(32) 05.03.2020
(33) China	(54) CONTROL ELEMENT FOR A	(33) Taiwan, Province of China
(51) G05D 1/02	HOUSEHOLD APPLIANCE AND	(51) G06F 1/16
B25J 11/00	HOUSEHOLD APPLIANCE	F16C 11/04
B25J 9/16	(73) BSH Hausgeräte GmbH	H04M 1/02
B25J 19/02	(72) FISCHER, Manuel	(11) EP3789844
A47L 9/28	FLEISSNER, Reinhard	(21) EP18923477.6
G01S 17/93	OSENSTÄTTER, Anton	(47) 11.01.2023
G01S 17/89	(31) 102017209056	(87) CN2018092046
G01S 7/481	(32) 30.05.2017	26.12.2019
G01S 17/04	(33) Germany	(22) 20.06.2018
A47L 9/00	(51) G05G 5/03	(54) DEVICE HAVING OPENING AND
G01S 17/42	G05G 9/047	CLOSING PERFORMANCE
G01S 17/87	(11) EP3857329	(73) Huawei Technologies Co., Ltd.
G01S 17/88	(21) EP19769538.0	(72) KATO, Hideo
G01S 17/931	(47) 11.01.2023	JIANG, Yaming
(11) EP3549726	(87) EP2019075381	BAI, Lei
(21) EP17876999.8	02.04.2020	ZHANG, Guanjun
(47) 11.01.2023	(22) 20.09.2019	(51) G06F 1/16
(87) KR2017012629	(54) DEVICE FOR CONTROLLING THE	H04M 1/72448
07.06.2018	FLIGHT OF AN AIRCRAFT	H04M 1/72466
(22) 08.11.2017	(73) Safran Electronics & Defense	G06F 3/0346
(54) ROBOTIC VACUUM CLEANER,	(72) LAWNICZAK, Rémi-Louis	(11) EP3882756
CLEANING FUNCTION CONTROL	JULIEN, Louis	(21) EP20180017.4
APPARATUS EQUIPPED IN ROBOTIC	(31) 1858806	(47) 11.01.2023
VACUUM CLEANER, AND MULTI-	(32) 26.09.2018	(22) 15.06.2020
CHANNEL LIDAR-BASED OBSTACLE	(33) France	(54) ELECTRONIC APPARATUS
	(51) G06F 1/16	(73) LG ELECTRONICS INC.

(72) SHIM, Hongjo KIM, Hyunwoo	14.11.2019 (22) 09.05.2019	ZHOU, Qi WENG, Chao
(31) PCT/KR2020/003615 (32) 17.03.2020 (33) World Intellectual Property Office (WIPO)	(54) ESTIMATION METHOD, ESTIMATION PROGRAM, AND ESTIMATION DEVICE	(51) G06F 3/0488 G06F 3/04842 B60K 37/06
(51) G06F 1/3206 (11) EP3465380 (21) EP17722912.7 (47) 11.01.2023 (87) US2017027968 30.11.2017 (22) 17.04.2017	(73) NIPPON TELEGRAPH AND TELEPHONE CORPORATION (72) YAMASHITA, Jumpei KOYA, Hidetaka NAKAJIMA, Hajime (31) 2018090711 (32) 09.05.2018 (33) Japan	(11) EP3894256 (21) EP19813764.8 (47) 11.01.2023 (87) EP2019083028 18.06.2020 (22) 29.11.2019
(54) SYSTEMS AND METHODS TO SEPARATE POWER DOMAINS IN A PROCESSING DEVICE	(51) G06F 3/0481 G06F 3/01 G06F 3/0488 G06F 3/0482	(54) OPERATING SYSTEM FOR A VEHICLE, CORRESPONDING METHOD AND CONTROLLER (73) VOLKSWAGEN AKTIENGESELLSCHAFT
(73) Qualcomm Incorporated (72) SAHU, Satyanarayana RAJ, Satish CHANDRASEKARAN, Shiva Ram QIU, Li TYAGI, Arun PHILIP, Mathew VERMA, Rajesh	(11) EP3410282 (21) EP17744523.6 (47) 11.01.2023 (87) KR2017000781 03.08.2017 (22) 23.01.2017	(72) HUWER, Wojciech (31) 102018221706 (32) 13.12.2018 (33) Germany
(31) 201615162452 (32) 23.05.2016 (33) United States of America	(54) ELECTRONIC DEVICE AND METHOD FOR CONTROLLING USER INTERFACE OF ELECTRONIC DEVICE	(51) G06F 3/12 B29C 64/386 B33Y 50/00
(51) G06F 1/329 G06F 1/3206 G06F 9/48 G06F 9/54	(73) Samsung Electronics Co., Ltd. (72) KANG, Dong-Goo KIM, Yun-Kyung YOON, Yeo-Jun LEE, Yong-Yeon	(11) EP3271809 (21) EP15900552.9 (47) 11.01.2023 (87) US2015043298 09.02.2017 (22) 31.07.2015
(11) EP3650983 (21) EP18838590.0 (47) 11.01.2023 (87) CN2018083104 31.01.2019 (22) 13.04.2018	(31) 20160010087 (32) 27.01.2016 (33) Korea (Republic)	(54) PARTS ARRANGEMENT DETERMINATION FOR A 3D PRINTER BUILD ENVELOPE (73) Hewlett-Packard Development Company, L.P.
(54) METHOD FOR MANAGING TRIGGER, AND TERMINAL DEVICE	(51) G06F 3/0481 G06F 3/0484 G06F 3/04815 G06F 3/04845 G06F 30/12 G06T 11/20 G06F 3/04883	(72) HUANG, Wei ZENG, Jun ZHAO, Yan WHITE, Scott CORTES I HERMS, Sebastia
(73) Huawei Technologies Co., Ltd. (72) KANG, Zhi CHEN, Qiulin ZHOU, Zhenkun	(11) EP3931675 (21) EP20718653.7 (47) 11.01.2023 (87) EP2020060280 15.10.2020 (22) 09.04.2020	(51) G06F 3/14 G09G 5/10 G06T 5/00 H04N 19/40
(31) 201710630643 (32) 28.07.2017 (33) China	(54) TOOL AND METHOD FOR DRAWING 3-D CURVES IN 2-D	(11) EP3800543 (21) EP20203810.5 (47) 11.01.2023 (22) 06.12.2012
(51) G06F 3/00 G06F 40/103	(73) Goggle Collective Ltd. (72) JOHNSTON, Neil (31) 201905165 (32) 11.04.2019 (33) United Kingdom	(54) COMPUTER PROGRAM FOR AND COMPUTER READABLE MEDIUM HAVING STORED A BITSTREAM FOR IMPROVING THE PERCEPTUAL LUMINANCE NONLINEARITY-BASED IMAGE DATA EXCHANGE ACROSS DIFFERENT DISPLAY CAPABILITIES
(11) EP2850538 (21) EP13790058.5 (47) 11.01.2023 (87) US2013039213 21.11.2013 (22) 02.05.2013	(51) G06F 3/04845 G06F 3/04842	(73) Dolby Laboratories Licensing Corporation
(54) COLLAPSIBLE TEXT INPUT BOX	(11) EP3494443 (21) EP16920192.8 (47) 11.01.2023 (87) CN2016103123 03.05.2018 (22) 24.10.2016	(72) MILLER, Jon Scott DALY, Scott NEZAMABADI, Mahdi ATKINS, Robin (31) 201261703449 P 201261674503 P 201161567579 P
(73) Google LLC (72) JONES, Jonah LEE, Michelle, I-ching	(54) SYSTEMS AND METHODS FOR CONTROLLING AN IMAGE CAPTURED BY AN IMAGING DEVICE	(32) 20.09.2012 23.07.2012 06.12.2011
(31) 201213472148 (32) 15.05.2012 (33) United States of America	(73) SZ DJI Technology Co., Ltd. (72) WANG, Mingxi CHEN, Hanping WANG, Jiadi	(31) 201261703449 P 201261674503 P 201161567579 P
(51) G06F 3/01 G06F 3/0346 G06F 3/038 A61B 5/11		(33) United States of America United States of America United States of America
(11) EP3779646 (21) EP19799138.3 (47) 11.01.2023 (87) JP2019018623		

<p>(51) G06F 3/14 G09G 5/10 G06T 5/00 H04N 19/40 G09G 5/00 (11) EP3974956 (21) EP21197681.6 (47) 11.01.2023 (22) 06.12.2012 (54) COMPUTER PROGRAM IMPROVING THE PERCEPTUAL NONLINEARITY-BASED IMAGE DATA EXCHANGE ACROSS DIFFERENT DISPLAY CAPABILITIES (73) Dolby Laboratories Licensing Corporation (72) MILLER, Jon Scott DALY, Scott NEZAMABADI, Mahdi ATKINS, Robin (31) 201261703449 P 201261674503 P 201161567579 P (32) 20.09.2012 23.07.2012 06.12.2011 (33) United States of America United States of America United States of America <hr/>(51) G06F 3/14 G09G 5/393 G09G 5/395 G09G 5/00 (11) EP3309674 (21) EP17205934.7 (47) 11.01.2023 (22) 03.04.2014 (54) MEMORY POWER SAVINGS IN IDLE DISPLAY CASE (73) Apple Inc. (72) BISWAS, Sukalpa SHIU, Shinye DE LA CROPTÉ DE CHANTERAC, Cyril GULATI, Manu DESAI, Pulkit HU, Rong Zhang (31) 201313890306 (32) 09.05.2013 (33) United States of America <hr/>(51) G06F 7/00 A01G 9/029 B25J 9/00 B25J 5/02 B65H 29/12 B25J 19/02 (11) EP3568748 (21) EP18738818.6 (47) 11.01.2023 (87) US2018013807 19.07.2018 (22) 16.01.2018 (54) METHOD FOR AUTOMATICALLY REDISTRIBUTING PLANTS THROUGHOUT AN AGRICULTURAL FACILITY (73) Iron Ox, Inc. (72) ALEXANDER, Brandon, Ace BINNEY, Jonathan (31) 201762446749 P</p>	<p>(32) 16.01.2017 (33) United States of America <hr/>(51) G06F 7/544 (11) EP3791261 (21) EP19746297.1 (47) 11.01.2023 (87) US2019041586 23.01.2020 (22) 12.07.2019 (54) PERFORMING CONSECUTIVE MAC OPERATIONS ON A SET OF DATA USING DIFFERENT KERNELS IN A MAC CIRCUIT (73) Xilinx, Inc. (72) ZHANG, Xiaojian WU, Ephrem, C. BERMAN, David (31) 201816040357 (32) 19.07.2018 (33) United States of America <hr/>(51) G06F 8/10 G06F 11/26 G06F 30/20 G06F 30/15 G06F 30/3308 (11) EP3736688 (21) EP19210226.7 (47) 11.01.2023 (22) 20.11.2019 (54) VIRTUAL CONTROL DEVICE (73) dSPACE GmbH (72) Sövern, Markus Kiffmeier, Ulrich, Dr. Church, Stuart Michael (31) 102019111953 (32) 08.05.2019 (33) Germany <hr/>(51) G06F 9/30 G06F 11/14 G06F 11/16 G06F 11/18 G06F 9/38 G06F 8/41 (11) EP3472698 (21) EP17816132.9 (47) 11.01.2023 (87) US2017038524 28.12.2017 (22) 21.06.2017 (54) FINGERPRINTING OF REDUNDANT THREADS USING COMPILER-INSERTED TRANSFORMATION CODE (73) Advanced Micro Devices, Inc. (72) LOWELL, Daniel I. (31) 201615188304 (32) 21.06.2016 (33) United States of America <hr/>(51) G06F 9/38 (11) EP3877842 (21) EP19798281.2 (47) 11.01.2023 (87) EP2019080163 14.05.2020 (22) 05.11.2019 (54) MIGRATION OF PARTIALLY COMPLETED INSTRUCTIONS (73) International Business Machines Corporation</p>	<p>(72) GIAMEI, Bruce, Conrad RECKTENWALD, Martin SCHMIDT, Donald, William SLEGEL, Timothy PURANIK, Aditya, Nitin FARRELL, Mark JACOBI, Christian BRADBURY, Jonathan ZOELLIN, Christian, Gerhard (31) 201816181751 (32) 06.11.2018 (33) United States of America <hr/>(51) G06F 9/44 G05B 19/05 G05B 19/042 G06F 8/10 G06F 30/20 G06F 11/7/08 (11) EP3491517 (21) EP17749420.0 (47) 11.01.2023 (87) EP2017069322 01.02.2018 (22) 31.07.2017 (54) SIGNAL FLOW-BASED COMPUTER PROGRAM WITH DIRECT FEEDTHROUGH LOOPS (73) AVL List GmbH Virtual Vehicle Research GmbH (72) PRILLER, Peter PÖLZLBAUER, Florian (31) 506932016 (32) 29.07.2016 (33) Austria <hr/>(51) G06F 9/445 (11) EP3480692 (21) EP18194430.7 (47) 11.01.2023 (22) 14.09.2018 (54) METHODS AND SYSTEMS FOR PRELOADING APPLICATIONS AND GENERATING PREDICTION MODELS (73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. (72) CHEN, Yan (31) 201711078330 (32) 06.11.2017 (33) China <hr/>(51) G06F 9/445 G06F 9/455 (11) EP3693851 (21) EP17928527.5 (47) 11.01.2023 (87) CN2017106154 18.04.2019 (22) 13.10.2017 (54) CLASS UNLOADING METHOD AND ELECTRONIC DEVICE (73) Huawei Technologies Co., Ltd. (72) TU, Xiaobing CHEN, Hao TONG, Bifeng WANG, Fei LIN, Yinglu CHEN, Xiaoxiao (31) 201710931802 (32) 09.10.2017 (33) China</p>
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(51) G06F 9/455	FALKENHAGEN, Kyle	28.06.2019
(11) EP3746888	MARTINEZ, Frank	(33) United States of America
(21) EP19706084.1	PULIER, Eric	United States of America
(47) 11.01.2023	WOODALL, Tim	
(87) US2019016197	(31) 201414213639	(51) G06F 11/18
08.08.2019	201313843512	G01R 31/3185
(22) 31.01.2019	201361801199 P	G06F 11/16
(54) SYSTEM AND METHOD FOR	(32) 14.03.2014	G06F 11/267
PRESERVING ENTITY IDENTIFIERS	15.03.2013	G01R 31/3181
FOR VIRTUAL MACHINES	15.03.2013	(11) EP3798844
(73) Nutanix, Inc.	(33) United States of America	(21) EP20198137.0
(72) YADAV, Pulkit	United States of America	(47) 11.01.2023
SRINIVASAN, Supreeth	United States of America	(22) 24.09.2020
RAPOLE, Raghu Prasad	United States of America	(54) ERROR DETECTION AND
BOGGARAPU, Anil Kumar	(51) G06F 9/50	CORRECTION
THOTA, Raja Prathyush Kumar	G06N 3/04	(73) STMICROELECTRONICS SA
PAUL, Rahul	G06N 3/063	(72) GOMEZ GOMEZ, Ricardo
(31) 201815887379	G06N 3/08	CLERC, Sylvain
(32) 02.02.2018	(11) EP3353655	(31) 1910707
(33) United States of America	(21) EP16798590.2	(32) 27.09.2019
	(47) 11.01.2023	(33) France
(51) G06F 9/50	(87) US2016059334	
(11) EP3198436	04.05.2017	(51) G06F 11/30
(21) EP15781215.7	(22) 28.10.2016	G06F 11/07
(47) 11.01.2023	(54) STREAM-BASED ACCELERATOR	G11C 29/42
(87) US2015052462	PROCESSING OF COMPUTATIONAL	G11C 29/52
31.03.2016	GRAPHS	G11C 29/44
(22) 25.09.2015	(73) Google LLC	(11) EP3660681
(54) SYSTEM AND METHOD FOR	(72) BARHAM, Paul Ronald	(21) EP17927437.8
PROVIDING AN END-TO-END	VASUDEVAN, Vijay	(47) 11.01.2023
LIFECYCLE IN A MULTITENANT	(31) 201562253046 P	(87) CN2017105071
APPLICATION SERVER	201562247703 P	04.04.2019
ENVIRONMENT	(32) 09.11.2015	(22) 30.09.2017
(73) Oracle International Corporation	28.10.2015	(54) MEMORY FAULT DETECTION
(72) MORDANI, Rajiv	(33) United States of America	METHOD AND DEVICE, AND SERVER
ISLAM, Nazrul	United States of America	(73) Huawei Technologies Co., Ltd.
DATTATREYA, Jyothi	(51) G06F 9/54	(72) SONG, Gang
GHAFFAR, Siraj	G07F 7/10	DING, Chengguo
KONKUS, Loren	G06Q 20/34	ZHANG, Fei
PATEL, Chanda	(11) EP3320437	
GALLOWAY, Jennifer	(21) EP16723352.7	(51) G06F 11/34
(31) 201514864725	(47) 11.01.2023	G06F 9/50
201462056427 P	(87) EP2016060868	(11) EP3907619
201462055856 P	17.11.2016	(21) EP21169686.9
201462055577 P	(22) 13.05.2016	(47) 11.01.2023
201462055575 P	(54) INTEGRATED CIRCUIT CARD	(22) 21.04.2021
(32) 24.09.2015	ADAPTED TO TRANSFER FIRST DATA	(54) NOSQL DATABASE CAPACITY
26.09.2014	FROM A FIRST APPLICATION FOR	CONFIGURATION OPTIMIZATION
26.09.2014	USE BY A SECOND APPLICATION	SYSTEM FOR CLOUD COMPUTING
25.09.2014	(73) Thales Dis France SAS	(73) Accenture Global Solutions Limited
25.09.2014	(72) GANI, Aloysius Aldo	(72) SRINIVASAN, Madhan Kumar
(33) United States of America	LHOSTIS, Sylvain	GAJULA, Kishore Kumar
United States of America	(31) 15305724	(31) 202041018931
United States of America	(32) 13.05.2015	202016901861
United States of America	(33) European Patent Office (EPO)	(32) 04.05.2020
United States of America	(51) G06F 11/07	15.06.2020
	G06F 11/30	(33) India
(51) G06F 9/50	G06F 11/34	United States of America
G06F 8/61	(11) EP3764232	
(11) EP2973116	(21) EP20182216.0	(51) G06F 11/36
(21) EP14764916.4	(47) 11.01.2023	(11) EP3612941
(47) 11.01.2023	(22) 25.06.2020	(21) EP17913849.0
(87) US2014030599	(54) BUSINESS TRANSACTIONS IMPACT	(47) 11.01.2023
18.09.2014	ANALYSIS	(87) CN2017088037
(22) 17.03.2014	(73) Dynatrace LLC	20.12.2018
(54) SYSTEMS AND METHODS FOR	(72) ERTL, Otmar	(22) 13.06.2017
PROVIDING RANKED DEPLOYMENT	(31) 202016902497	(54) IDENTIFYING FLAKY TESTS
OPTIONS	201962868304 P	(73) Microsoft Technology Licensing, LLC
(73) ServiceMesh, Inc.	(32) 16.06.2020	(72) QIN, Bin
(72) CATALANO, John		XIA, Mengdie
		XIONG, Yiliang

GUO, Fangpeng	(51) G06F 13/00	G06N 5/04
(51) G06F 11/36	H04N 7/173	G06F 3/16
(11) EP3891613	H04N 21/236	G10L 25/30
(21) EP19765951.9	H04N 21/431	(11) EP3857459
(47) 11.01.2023	H04N 21/434	(21) EP20765105.0
(87) US2019048537	H04N 21/462	(47) 11.01.2023
16.07.2020	H04N 21/81	(87) JP2020029373
(22) 28.08.2019	(11) EP3460670	18.03.2021
(54) SOFTWARE CHECKPOINT- RESTORATION BETWEEN DISTINCTLY COMPILED EXECUTABLES	(21) EP18188518.7	(22) 22.07.2020
(73) Siemens Industry Software Inc.	(47) 11.01.2023	(54) METHOD AND SYSTEM FOR TRAINING A DIALOGUE RESPONSE GENERATION SYSTEM
(72) JAIN, Twinkle	(2) 20.09.2013	(73) Mitsubishi Electric Corporation
KULSHRESTHA, Vipul	(54) INFORMATION PROCESSING DEVICE, PORTABLE TERMINAL, INFORMATION PROCESSING METHOD, PROGRAM, AND INFORMATION PROCESSING SYSTEM	(72) HORI, Chiori
CROUCH, Kenneth W.	(73) Saturn Licensing LLC	CHERIAN, Anoop
(31) 201962790502 P	(72) YOSHIHARU, Dewa	MARKS, Tim
(32) 10.01.2019	NAOHISA, Kitazato	HORI, Takaaki
(33) United States of America	(72) YOSHIHARU, Dewa	(31) 201916569679
(51) G06F 11/36	NAOHISA, Kitazato	(32) 13.09.2019
G06F 21/57	NAOYUKI, Sato	(33) United States of America
G06N 3/04	TETSUO, Yutani	(51) G06F 16/583
G06N 3/08	(31) 2012218759	G06F 16/587
G06N 5/00	(32) 28.09.2012	G06Q 10/00
G06N 20/00	(33) Japan	G06Q 50/08
(11) EP3639141	(51) G06F 13/38	(11) EP3712782
(21) EP18730906.7	G06F 13/42	(21) EP20162761.9
(47) 11.01.2023	G05B 19/042	(47) 11.01.2023
(87) US2018034256	G05B 19/05	(22) 12.03.2020
20.12.2018	(11) EP3299912	(54) DIAGNOSIS PROCESSING APPARATUS, DIAGNOSIS SYSTEM, AND DIAGNOSIS PROCESSING METHOD
(22) 24.05.2018	(21) EP17188738.3	(73) Ricoh Company, Ltd.
(54) MACHINE LEARNING FOR CONSTRAINED MUTATION-BASED FUZZ TESTING	(47) 11.01.2023	(72) OSHIKIRI, Kohji
(73) Microsoft Technology Licensing, LLC	(22) 31.08.2017	(31) 2019053763
(72) RAJPAL, Mohit	(54) AUTOMATED RETROFIT INSTALLATION TOOL FOR REPLACEMENT OF ONE OR MORE PRE-EXISTING DEDICATED INPUT/ OUTPUT (I/O) MODULES AND TERMINAL BOARDS WITH ONE OR MORE UNIVERSAL I/O MODULES	(32) 20.03.2019
BLUM, William	(73) General Electric Company	(33) Japan
SINGH, Rishabh	(72) ALLEY, Daniel Milton	(51) G06F 16/9038
(31) 201715636132	CARTER, Roy Anthony	H04N 21/20
201762520173 P	SHERMAN, Joshua	G06F 3/16
(32) 28.06.2017	(31) 201615266447	G10L 15/22
15.06.2017	(32) 15.09.2016	G10L 15/30
(33) United States of America	(33) United States of America	H04N 21/258
United States of America	(51) G06F 16/185	H04N 21/422
(51) G06F 12/0862	(11) EP3913493	H04N 21/233
G06F 12/0811	(21) EP21185865.9	H04N 21/262
G06F 11/30	(47) 11.01.2023	H04N 21/43
G06F 3/06	(22) 03.10.2015	H04N 21/6587
G06F 12/084	(54) STORAGE CONSTRAINED SYNCHRONIZATION OF SHARED CONTENT ITEMS	G10L 13/00
G06F 12/0842	(73) Dropbox, Inc.	(11) EP3475942
G06F 12/0846	(72) NEWHOUSE, Benjamin	(21) EP17736850.3
G06F 12/0855	(31) 201514611117	(47) 11.01.2023
(11) EP3769226	201514611116	(87) US2017039221
(21) EP19772169.9	201514611115	04.01.2018
(47) 11.01.2023	(32) 30.01.2015	(22) 26.06.2017
(87) US2019019766	30.01.2015	(54) SYSTEMS AND METHODS FOR ROUTING CONTENT TO AN ASSOCIATED OUTPUT DEVICE
26.09.2019	(33) United States of America	(73) Amazon Technologies, Inc.
(22) 27.02.2019	United States of America	(72) JOBANPUTRA, Soniya
(54) PREFETCHER BASED SPECULATIVE DYNAMIC RANDOM-ACCESS MEMORY READ REQUEST TECHNIQUE	United States of America	TYPRIN, Marcello
(73) Advanced Micro Devices, Inc.	(51) G06F 16/332	TRUDELL, Mallory
(72) AGARWAL, Tanuj Kumar	G06N 3/04	(31) 201615194225
BHOWMIK, Anasua	G06N 3/08	201615194064
HUNT, Douglas Benson		(32) 27.06.2016
(31) 201815925859		27.06.2016
(32) 20.03.2018		(33) United States of America
(33) United States of America		United States of America

(51) G06F 17/14 G06F 9/44	(22) 22.05.2018	(21) EP14161258.0
(11) EP3803636	(54) BLOCKCHAIN-BASED DATA PROCESSING METHOD AND DEVICE	(47) 11.01.2023
(21) EP19790626.6	(73) Advanced New Technologies Co., Ltd.	(22) 24.03.2014
(47) 11.01.2023	(72) WU, Hao	(54) Method for transmitting hidden messages and electronic device thereof
(87) FR2019051697 16.01.2020	(31) 201710366698	(73) Samsung Electronics Co., Ltd.
(22) 09.07.2019	(32) 23.05.2017	(72) Kwon, Choel-Hwi
(54) NTT PROCESSOR INCLUDING A PLURALITY OF MEMORY BANKS	(33) China	(31) 20130036002
(73) Commissariat à l'énergie atomique et aux énergies alternatives	(51) G06F 21/62 H04W 12/02 H04W 4/029	(32) 02.04.2013
(72) CATHEBRAS, Joël	(11) EP3921752	(33) Korea (Republic)
CARBON, Alexandre	(21) EP20702635.2	(51) G06K 7/10 G01K 13/00
SIRDEY, Renaud	(47) 11.01.2023	(11) EP3537332
VENTROUX, Nicolas	(87) EP2020052211 13.08.2020	(21) EP16920562.2
(31) 1856351	(22) 30.01.2020	(47) 11.01.2023
(32) 10.07.2018	(54) MONITORING AND ADJUSTING THE	(87) CN2016104626 11.05.2018
(33) France	OBFUSCATION OF VEHICLE-RELATED	(22) 04.11.2016
(51) G06F 21/00	DATA	(54) TEMPERATURE MEASUREMENT SCANNING HEAD AND USING METHOD THEREFOR
G06F 16/951	(73) VOLKSWAGEN	(73) Shenzhen Idata Technology Company Ltd.
H04L 9/40	AKTIENGESELLSCHAFT	(72) WANG, DongSheng
G16H 10/60	(72) MAX, Stephan	(51) G06K 19/07 G06K 19/06 G06K 19/02 G06K 19/077 B42D 25/373 B42D 25/369 B42D 25/455 B42D 25/46
G16H 10/40	SEIDEL, Christian Alexander	(11) EP3629244
G06F 21/62	(31) 102019201530	(21) EP19193399.3
G06F 16/25	(32) 06.02.2019	(47) 11.01.2023
G01N 33/48	(33) Germany	(22) 23.08.2019
(11) EP3547181	(51) G06F 21/64	(54) ELECTRONIC CARD HAVING AN ELECTRONIC INTERFACE
(21) EP19155166.2	(11) EP3465528	(73) Apple Inc.
(47) 11.01.2023	(21) EP17727489.1	(72) RUSSELL-CLARKE, Peter N.
(22) 25.07.2014	(47) 11.01.2023	(72) DIONELLO, Rafael L.
(54) SYSTEMS AND METHODS FOR A DISTRIBUTED CLINICAL LABORATORY	(87) EP2017025142 30.11.2017	(31) 201916526880 201916526814 201962814788 P 201962814779 P 201862737528 P
(73) Labrador Diagnostics LLC	(22) 23.05.2017	(32) 30.07.2019 30.07.2019 06.03.2019 06.03.2019 27.09.2018
(72) BALWANI, Sunny	(54) APPARATUS AND METHOD OF CREATING A DATA CHAIN IN A DATA STRUCTURE THAT CAN BE CRYPTOGRAPHICALLY PROVEN TO CONTAIN VALID DATA	(33) United States of America United States of America United States of America United States of America United States of America
(31) 201361858604 P	(73) The MaidSafe Foundation	(51) G06N 3/04 G06F 12/0802
(32) 25.07.2013	(72) IRVINE, David	(11) EP3757896
(33) United States of America	RAJKUMAR, Vivekanand	(21) EP19217269.0
(51) G06F 21/53	FAACKLER, Andreas	(47) 11.01.2023
G06F 21/62	(31) 201609059	(22) 27.06.2019
G06F 21/60	(32) 23.05.2016	(54) METHOD AND DEVICE FOR PRE- PROCESSING DATA IN A NEURAL NETWORK
G06F 9/455	(33) United Kingdom	(73) Cambricon Technologies Corporation Limited
H04L 9/08	(51) G06F 21/73 H04L 9/08	(72) LIU, Shaoli
H04L 9/14	(11) EP3881214	
(11) EP3843323	(21) EP19809168.8	
(21) EP20845030.4	(47) 11.01.2023	
(47) 11.01.2023	(87) IB2019059790 22.05.2020	
(87) JP2020020228 28.01.2021	(22) 14.11.2019	
(22) 22.05.2020	(54) CHANGE-TOLERANT METHOD OF GENERATING AN IDENTIFIER FOR A COLLECTION OF ASSETS IN A COMPUTING ENVIRONMENT	
(54) COMPUTATION DEVICE, COMPUTATION METHOD, COMPUTATION PROGRAM, AND COMPUTATION SYSTEM	(73) Irdeto B.V.	
(73) Eaglys Inc.	(72) EISEN, Philip Allan	
(72) IMABAYASHI Hiroki	(31) 201816190199	
(31) 2019133973	(32) 14.11.2018	
(32) 19.07.2019	(33) United States of America	
(33) Japan	(51) G06F 21/84 H04M 1/725 H04M 1/673 H04M 1/72436	
(51) G06F 21/60	(11) EP2787465	
G06Q 40/04		
G06F 21/64		
G06F 16/25		
H04L 9/00		
(11) EP3910513		
(21) EP21184024.4		
(47) 11.01.2023		

MENG, Xiaofu	United States of America	H04M 3/527
(31) 201810987343	(51) G06Q 10/06	(11) EP3262831
201810987293	G06Q 10/00	(21) EP16754838.7
(32) 28.08.2018	B60L 53/36	(47) 11.01.2023
28.08.2018	B60L 53/60	(87) IB2016051006
(33) China	B60L 53/30	01.09.2016
China	(11) EP3412496	(22) 24.02.2016
(51) G06N 3/063	(21) EP18168677.5	(54) TELEPHONE CALL PLACEMENT
G06F 17/15	(47) 11.01.2023	(73) Addison Lee Limited
G06F 7/16	(22) 23.04.2018	(72) LACEY, Paul
G06F 7/509	(54) METHOD AND SYSTEM FOR	(31) 201503084
G06F 7/544	PREPARING A VEHICLE	(32) 24.02.2015
G06N 3/04	(73) AUDI AG	(33) United Kingdom
(11) EP3738082	(72) Enthaler, Achim	(51) G06Q 50/06
(21) EP19715337.2	Mürken, Michael	G01M 3/28
(47) 11.01.2023	Thanheiser, Andreas	G06Q 10/06
(87) US2019023133	(31) 102017209711	(11) EP3568682
26.09.2019	(32) 08.06.2017	(21) EP17781587.5
(22) 20.03.2019	(33) Germany	(47) 11.01.2023
(54) ACCELERATED QUANTIZED	(51) G06Q 10/06	(87) US2017052135
MULTIPLY-AND-ADD OPERATIONS	G06Q 50/02	19.07.2018
(73) Amazon Technologies, Inc.	G06Q 50/04	(22) 19.09.2017
(72) VANTREASE, Dana Michelle	G05B 19/418	(54) SYSTEMS AND METHODS FOR
HUANG, Randy	G06F 9/46	SUBNETWORK HYDRAULIC
DIAMANT, Ron	(11) EP3428860	MODELING
ELMER, Thomas	(21) EP18182852.6	(73) Sensus Spectrum LLC
AMIRINENI, Sundeeep	(47) 11.01.2023	(72) RASEKH, Amin
(31) 201815934681	(22) 11.07.2018	BARKER, Zachary, A.
(32) 23.03.2018	(54) DYNAMICALLY RECONFIGURABLE	SHAFIEE, Michael, Ehsan
(33) United States of America	DATA COLLECTION AGENT FOR	SMITH, Travis
(51) G06N 7/00	FRACKING PUMP ASSET	(31) 201715584813
G06K 9/62	(73) Rockwell Automation Technologies, Inc.	201715402743
G06N 20/00	(72) SAYYARRODSARI, Bijan	(32) 02.05.2017
(11) EP2523149	MATURANA, Francisco P.	10.01.2017
(21) EP11173292.1	(31) 201715646689	(33) United States of America
(47) 11.01.2023	(32) 11.07.2017	United States of America
(22) 08.07.2011	(33) United States of America	(51) G06T 1/60
(54) A method and system for association and	(51) G06Q 30/02	H04L 65/612
decision fusion of multimodal inputs	G09F 9/00	H04L 67/50
(73) Tata Consultancy Services Ltd.	G06Q 30/00	H04L 67/5681
(72) Gupta, Rohit Kumar	(11) EP3550547	(11) EP3545421
Gattani, Sandeep	(21) EP19170294.3	(21) EP17873535.3
Sinha, Aniruddha	(47) 11.01.2023	(47) 11.01.2023
Chaki, Ayan	(22) 16.06.2015	(87) US2017060547
Pal, Arpan	(54) TRANSPARENT LCD ASSEMBLY WITH	31.05.2018
(31) 1451MU2011	DISPLAY CASE	(22) 08.11.2017
(32) 11.05.2011	(73) Manufacturing Resources International,	(54) PREDICTIVE APPLICATION CACHING
(33) India	Inc.	(73) Roku, Inc.
(51) G06N 10/40	(72) DUNN, William	(72) STERN, David
B82Y 10/00	DIAZ, Marcos	WOOD, Anthony
(11) EP2954465	(31) 201462013917 P	(31) 201615359747
(21) EP14708151.7	201462013225 P	(32) 23.11.2016
(47) 11.01.2023	201462012559 P	(33) United States of America
(87) US2014014748	201462012572 P	(51) G06T 5/40
14.08.2014	201462012785 P	(11) EP3608869
(22) 05.02.2014	(32) 18.06.2014	(21) EP19189822.0
(54) TOPOLOGICAL QUBIT FUSION	17.06.2014	(47) 11.01.2023
(73) Microsoft Technology Licensing, LLC	16.06.2014	(22) 02.08.2019
(72) FREEDMAN, Michael H.	16.06.2014	(54) SCALED TWO-BAND HISTOGRAM
WANG, Zhenghan	16.06.2014	PROCESS FOR IMAGE
LUTCHYN, Roman M.	(33) United States of America	ENHANCEMENT
NAYAK, Chetan	United States of America	(73) Sensors Unlimited, Inc.
BONDERSON, Parsa	United States of America	(72) NGUYEN, Thuc-Uyen
(31) 201313957268	United States of America	(31) 201816057280
201361761125 P	United States of America	(32) 07.08.2018
(32) 01.08.2013	(51) G06Q 30/08	(33) United States of America
05.02.2013	H04M 3/42	(51) G06T 7/00
(33) United States of America	G06Q 10/00	(11) EP2633496

(21) EP11782225.4	(22) 22.07.2010	(31) 102018221093
(47) 11.01.2023	(54) MARKER DETERMINATION	(32) 06.12.2018
(87) IB2011054685	DEVICE, MARKER DETERMINATION	(33) Germany
03.05.2012	DETECTION SYSTEM, MARKER	(51) G07C 9/00
(22) 20.10.2011	DETERMINATION DETECTION	(11) EP3107072
(54) IMAGE ARTIFACT IDENTIFICATION	DEVICE, MARKER, MARKER	(21) EP15172113.1
AND MITIGATION	DETERMINATION METHOD, AND	(47) 11.01.2023
(73) Koninklijke Philips N.V.	PROGRAM THEREFOR	(22) 15.06.2015
(72) BREDNO, Joerg	(73) NEC Corporation	(54) LOCATING AN ELECTRONIC KEY
HANSIS, Eberhard Sebastian	(72) NAKAJIMA, Noboru	(73) Assa Abloy AB
SOWARDS-EMMERD, David	(31) 2009171842	(72) Strömberg, Stefan
(31) 407167 P	(32) 23.07.2009	Gärde, Johan
(32) 27.10.2010	(33) Japan	(51) G07C 9/00
(33) United States of America	(51) G06V 10/44	(11) EP3664047
(51) G06T 7/00	G06V 10/82	(21) EP19210074.1
(11) EP3186778	G06V 20/40	(47) 11.01.2023
(21) EP15778059.4	G06V 20/59	(22) 19.11.2019
(47) 11.01.2023	G06V 40/20	(54) VEHICLE DOOR HANDLE WITH
(87) IL2015050864	G06K 9/62	SENSOR DEVICE AND WIRELESS
03.03.2016	(11) EP3895064	COMMUNICATION DEVICE
(22) 27.08.2015	(21) EP20786271.5	(73) Huf Hülsbeck & Fürst GmbH & Co. KG
(54) SYSTEM AND METHOD FOR	(47) 11.01.2023	(72) PESCHL, Herr Andreas
CALCULATING FOCUS VARIATION	(87) EP2020077519	BEXTERMÖLLER, Herr Hubert
FOR A DIGITAL MICROSCOPE	06.05.2021	CHABROWSKI, Christian
(73) S.D. Sight Diagnostics Ltd.	(22) 01.10.2020	(31) 102018130791
(72) YORAV-RAPHAEL, Noam	(54) METHOD AND SYSTEM FOR	(32) 04.12.2018
WOLFOVITZ, Uri	TRIGGERING AN EVENT IN A VEHICLE	(33) Germany
POLLAK, Joseph Joel	(73) Mercedes-Benz Group AG	(51) G07F 9/06
(31) 201462042388 P	(72) GUPTA, Vikram	F16B 21/09
(32) 27.08.2014	DWIVEDI, Sai Kumar	G07F 19/00
(33) United States of America	AHMED, Shuaib	G07F 5/06
(51) G06T 7/33	ARJUN, Jain	(11) EP3394840
(11) EP3975120	(31) 201941043899	(21) EP16779095.5
(21) EP20198095.0	(32) 30.10.2019	(47) 11.01.2023
(47) 11.01.2023	(33) India	(87) EP2016074226
(22) 24.09.2020	(51) G06V 30/148	29.06.2017
(54) TECHNIQUE FOR GUIDING	(11) EP2569930	(22) 10.10.2016
ACQUISITION OF ONE OR MORE	(21) EP11781014.3	(54) AUTOMATED TELLER MACHINE
REGISTRATION POINTS ON A	(47) 11.01.2023	(73) KEBA Handover Automation GmbH
PATIENT'S BODY	(87) US2011034242	(72) BAUMANN, Claus
(73) Stryker European Operations Limited	17.11.2011	(31) 102015122370
(72) Dr. KÄSEBERG, Marc	(22) 28.04.2011	(32) 21.12.2015
Dr. WINNE, Christian	(54) SEGMENTATION OF A WORD BITMAP	(33) Germany
Dr. ÖZBEK, Christopher	INTO INDIVIDUAL CHARACTERS OR	(51) G08B 17/00
(51) G06T 7/60	GLYPHS DURING AN OCR PROCESS	G08B 25/00
G06T 7/73	(73) Microsoft Technology Licensing, LLC	(11) EP3891710
B60D 1/24	(72) NIJEMCEVIC, Djordje	(21) EP19821156.7
B60D 1/62	(31) 776576	(47) 11.01.2023
(11) EP3889904	(32) 10.05.2010	(87) GB2019053417
(21) EP20167186.4	(33) United States of America	11.06.2020
(47) 11.01.2023	(51) G07C 5/00	(22) 03.12.2019
(22) 31.03.2020	G07C 5/08	(54) CONTROL SYSTEM
(54) METHOD AND SYSTEM FOR	G06F 16/50	(73) FireAngel Safety Technology Limited
CALCULATING VEHICLE TRAILER	G08G 1/017	(72) RUTTER, Nick
ANGLE	H04N 1/00	BOLGER, Chris Bolger
(73) Continental Autonomous Mobility	(11) EP3785236	(31) 201819719
Germany GmbH	(21) EP19801553.9	(32) 03.12.2018
(72) Plowman, Robin - c/o Conti Temic	(47) 11.01.2023	(33) United Kingdom
microelectronic GmbH	(87) EP2019080793	(51) G08B 17/10
Riley, Tom - c/o Conti Temic	11.06.2020	G08B 13/00
microelectronic GmbH	(22) 11.11.2019	G08B 19/00
(51) G06V 10/422	(54) METHOD FOR PROCESSING	G07C 9/00
G06T 1/00	SURROUNDINGS INFORMATION OF A	F21S 9/02
(11) EP2458559	MOTOR VEHICLE AND ELECTRONIC	G08C 17/00
(21) EP10802327.6	INFORMATION PROCESSING SYSTEM	(11) EP3496060
(47) 11.01.2023	(73) Audi AG	(21) EP17306736.4
(87) JP2010062384	(72) GEYER, Jakob	(47) 11.01.2023
27.01.2011	GUTTENBERGER, Manuel	

(22) 08.12.2017	(11) EP2975593	BOUATOU, Vincent
(54) MULTI-STATE DEVICE HAVING COMMUNICATION LINKS WITH A REMOTE CONTROL WITH IDENTIFYING CAPABILITIES	(21) EP15175850.5	WATTEBLED, Cyril
(73) Netatmo	(47) 11.01.2023	(31) 2019698
(72) CAZALIS, Romain	(22) 08.07.2015	(32) 10.10.2017
POTTER, Frédéric	(54) METHOD FOR SUPPORTING A DRIVER WHEN PARKING OF A MOTOR VEHICLE, DRIVER ASSISTANCE SYSTEM AND MOTOR VEHICLE	(33) Netherlands
(51) G08B 21/04	(73) Valeo Schalter und Sensoren GmbH	(51) G09F 3/00
G08B 29/24	(72) Jecker, Nicolas	G09F 3/03
(11) EP3991157	Jaya, Akhil Dheerendra	G09F 3/02
(21) EP20732927.7	(31) 102014110172	(11) EP3761291
(47) 11.01.2023	(32) 18.07.2014	(21) EP20179782.6
(87) EP2020066843	(33) Germany	(47) 11.01.2023
30.12.2020	(51) G09B 19/00	(22) 12.06.2020
(22) 18.06.2020	A63B 24/00	(54) SECURITY LABEL WITH CONCEALED SECURITY CODE AND METHOD FOR ITS MANUFACTURE
(54) EVALUATING MOVEMENT OF A SUBJECT	(11) EP2654030	(73) SCRIBOS GmbH
(73) Koninklijke Philips N.V.	(21) EP13163555.9	(72) Kresse, Tobias
(72) RISPENS, Sietse, Menno	(47) 11.01.2023	(31) 102019209913
TEN KATE, Warner, Rudolph, Theophile	(22) 12.04.2013	(32) 05.07.2019
ANNEGARN, Janneke	(54) Wearable athletic activity monitoring methods and systems	(33) Germany
SAPORITO, Salvatore	(73) Adidas AG	(51) G09F 3/02
(31) 19182375	(72) Coza, Aurel	B31D 1/02
(32) 25.06.2019	DiBenedetto, Christian	B32B 29/06
(33) European Patent Office (EPO)	Munson, Ian Michael	B32B 7/06
(51) G08B 25/00	Allen, Jeffrey Scott	B32B 7/10
G08B 25/01	(31) 201313797274	G09F 3/10
G08B 25/08	201213446986	B32B 7/12
G08B 25/10	(32) 12.03.2013	B32B 29/00
G08B 25/14	13.04.2012	C09J 7/21
(11) EP3537404	(33) United States of America	C09J 7/40
(21) EP18160264.0	United States of America	(11) EP3453013
(47) 11.01.2023	(51) G09B 21/00	(21) EP17792335.6
(22) 06.03.2018	(11) EP3688743	(47) 11.01.2023
(54) AN ALARM SYSTEM AND A METHOD SUITABLE FOR MONITORING A HOME	(21) EP18706201.3	(87) CA2017050541
(73) Verisure Sàrl	(47) 11.01.2023	09.11.2017
(72) Skarp, Filip	(87) EP2018052502	(22) 04.05.2017
Meyer, Roland	04.04.2019	(54) LABEL ASSEMBLY
(51) G08G 1/00	(22) 01.02.2018	(73) Labelcraft Products Ltd.
G06Q 10/04	(54) DEVICE FOR SUPPORTING THE MOBILITY OF VISUALLY IMPAIRED PEOPLE IN ROAD TRAFFIC	(72) TOMLINSON, Brian
G07C 5/02	(73) RTB GmbH&Co.KG	(31) 201662332006 P
G06Q 50/30	(72) HEGEMANN, Andreas	(32) 05.05.2016
G08G 1/127	(31) 102017009187	(33) United States of America
G08G 1/13	(32) 30.09.2017	(51) G09F 9/00
(11) EP3751538	(33) Germany	G02B 5/00
(21) EP20179819.6	(51) G09C 5/00	G02F 1/1333
(47) 11.01.2023	G06F 21/32	G02F 1/1335
(22) 12.06.2020	G07C 9/25	H01L 51/50
(54) METHODS AND SYSTEMS OF ASSIGNING TRIPS TO VEHICLES	H04L 9/32	H05B 33/02
(73) Bridgestone Mobility Solutions B.V.	G06Q 50/26	H05B 33/04
(72) VERHEIJEN, Paul Roeland	G06K 9/00	H05B 33/10
FELLOWS, Robin	H04L 9/40	(11) EP2849170
SACHSE, Patric	G06V 40/16	(21) EP13788012.6
WINKLER, Tom	G06V 40/70	(47) 11.01.2023
(31) 201908502	(11) EP3695397	(87) JP2013062552
(32) 13.06.2019	(21) EP18812342.6	14.11.2013
(33) United Kingdom	(47) 11.01.2023	(22) 30.04.2013
(51) G08G 1/14	(87) NL2018050669	(54) IMAGE DISPLAY DEVICE
B62D 15/02	18.04.2019	MANUFACTURING METHOD
B60W 30/06	(22) 10.10.2018	(73) Dexerials Corporation
B60W 10/04	(54) AUTHENTICATION OF A PERSON USING A VIRTUAL IDENTITY CARD	(72) OGAWA Kouichi
B60W 10/184	(73) IDEMIA The Netherlands B.V.	SHINYA Yoshihisa
B60W 10/20	(72) DE VOS, Jouri	HAYASHI Naoki
B60W 50/14	VAN PROOIJEN, Joost	TOYODA Tomoyuki
B60W 50/16		(31) 2012107707
		(32) 09.05.2012
		(33) Japan
		(51) G09F 19/12
		G02B 3/00

G03B 35/00	(21) EP18871704.5	(11) EP3584792
G09F 11/02	(47) 11.01.2023	(21) EP19189446.8
G09F 19/02	(87) CN2018090099	(47) 11.01.2023
F16M 11/04	02.05.2019	(22) 24.07.2015
F16M 11/10	(22) 06.06.2018	(54) PROCESSOR, METHOD AND
F16M 11/18	(54) ACTIVE NOISE REDUCTION METHOD	COMPUTER PROGRAM FOR
G02B 27/06	AND SYSTEM, AND VEHICLE USING	PROCESSING AN AUDIO SIGNAL
(11) EP3799015	ALTERNATIVE ENERGY	USING TRUNCATED ANALYSIS OR
(21) EP19807877.6	(73) BYD Company Limited	SYNTHESIS WINDOW OVERLAP
(47) 11.01.2023	(72) SUN, Yaxuan	PORTIONS
(87) JP2019019917	ZHAO, Yongji	(73) Fraunhofer-Gesellschaft zur Förderung
28.11.2019	(31) 201711026134	der angewandten Forschung e.V.
(22) 20.05.2019	(32) 27.10.2017	(72) FUCHS, Guillaume
(54) MODULAR ROTATING IMAGE DISPLAY	(33) China	MULTRUS, Markus
APPARATUS	(51) G10L 15/06	NEUSINGER, Matthias
(73) Grapac Japan Co., Inc.	G10L 15/22	NIEDERMEIER, Andreas
(72) YUMOTO, Yoshihide	G06F 21/32	SCHNELL, Markus
(31) 2018098335	G10L 17/00	(31) 14178774
(32) 22.05.2018	(11) EP3679571	(32) 28.07.2014
(33) Japan	(21) EP18778762.7	(33) European Patent Office (EPO)
(51) G09G 3/20	(47) 11.01.2023	(51) G10L 19/16
G09G 5/02	(87) US2018049936	(11) EP3753105
G06F 3/14	14.03.2019	(21) EP19706353.0
G06F 3/048	(22) 07.09.2018	(47) 11.01.2023
(11) EP3499489	(54) ADMINISTRATION OF PRIVILEGES	(87) US2019018207
(21) EP18206902.1	BY SPEECH FOR VOICE ASSISTANT	22.08.2019
(47) 11.01.2023	SYSTEM	(22) 15.02.2019
(22) 19.11.2018	(73) Amazon Technologies Inc.	(54) LOUDNESS CONTROL METHODS AND
(54) METHOD FOR DISPLAY CONTROL	(72) MILLER, Gregory Thomas	DEVICES
AND RELATED PRODUCTS	(31) 201715700008	(73) Dolby Laboratories Licensing Corporation
(73) GUANGDONG OPPO MOBILE	(32) 08.09.2017	(72) NORCROSS, Scott Gregory
TELECOMMUNICATIONS CORP., LTD.	(33) United States of America	GRANT, Michael
(72) ZHANG, Haiping	(51) G10L 15/26	COWDERY, James Stuart
ZHOU, Yibao	H04W 4/14	NANDA, Sachin
(31) 201711329772	H04W 4/21	SHAH, Nisarg Vipul
(32) 13.12.2017	H04W 4/48	(31) 201862631227 P
(33) China	G10L 15/22	18156935
(51) G10K 11/178	(11) EP3107090	(32) 15.02.2018
(11) EP2987160	(21) EP15172680.9	15.02.2018
(21) EP14710420.2	(47) 11.01.2023	(33) United States of America
(47) 11.01.2023	(22) 18.06.2015	European Patent Office (EPO)
(87) US2014017374	(54) ANNOUNCEMENT SIGNALLING ON	(51) G10L 19/16
23.10.2014	BOARD AN AIRCRAFT	H04L 65/1069
(22) 20.02.2014	(73) Airbus Operations GmbH	H04L 65/75
(54) SYSTEMS AND METHODS	(72) KLOSE, Peter	H04L 65/80
FOR HYBRID ADAPTIVE NOISE	LUEDTKE, Michael	(11) EP4014506
CANCELLATION	(51) G10L 17/02	(21) EP20761468.6
(73) Cirrus Logic, Inc.	G10L 15/02	(47) 11.01.2023
(72) ALDERSON, Jeffrey D.	(11) EP3042377	(87) US2020046042
(31) 201313948566	(21) EP14763371.3	18.02.2021
201361818150 P	(47) 11.01.2023	(22) 13.08.2020
201361813426 P	(87) US2014030819	(54) METHODS AND DEVICES FOR
201361812384 P	18.09.2014	GENERATION AND PROCESSING OF
(32) 23.07.2013	(22) 17.03.2014	MODIFIED AUDIO BITSTREAMS
01.05.2013	(54) METHOD AND SYSTEM FOR	(73) Dolby International AB
18.04.2013	GENERATING ADVANCED FEATURE	Dolby Laboratories Licensing Corporation
16.04.2013	DISCRIMINATION VECTORS FOR USE	(72) FERSCH, Christof
(33) United States of America	IN SPEECH RECOGNITION	FISCHER, Daniel
United States of America	(73) Xmos Inc.	TERENTIV, Leon
United States of America	(72) SHORT, Kevin, M.	MCGARRY, Gregory John
United States of America	HONE, Brian	(31) 201962887098 P
(51) G10K 11/178	(31) 201361914002 P	19191920
G10K 11/175	201361786888 P	(32) 15.08.2019
F01N 1/06	(32) 10.12.2013	15.08.2019
B60R 16/037	15.03.2013	(33) United States of America
B60Q 5/00	(33) United States of America	European Patent Office (EPO)
G10K 15/02	United States of America	(51) G10L 21/0208
(11) EP3703048	(51) G10L 19/025	G10L 21/0216

G10K 11/178	(47) 11.01.2023	B22F 1/10
(11) EP3933837	(87) US2017031662	B22F 3/14
(21) EP21181431.4	07.12.2017	B22F 3/16
(47) 11.01.2023	(22) 09.05.2017	B22F 3/00
(22) 24.06.2021	(54) CONTROL-TO-RANGE FAILSAFES	B22F 3/10
(54) IN-VEHICLE COMMUNICATION	(73) F. Hoffmann-La Roche AG	B22F 3/24
SUPPORT SYSTEM	(72) DUKE, David L.	C21D 6/00
(73) Alps Alpine Co., Ltd.	RINGEMANN, Christian	H02K 15/03
A School Corporation Kansai University	MANOHAR, Chinmay Uday	C22C 38/00
(72) TACHI, Ryosuke	(31) 201615170425	C22C 38/16
KAJIKAWA, Yoshinobu	(32) 01.06.2016	B22F 3/15
(31) 2020115623	(33) United States of America	C22C 38/10
(32) 03.07.2020	(51) G16H 50/50	C22C 38/12
(33) Japan	G16Z 99/00	(11) EP3518259
(51) G10L 21/0216	A61C 7/12	(21) EP17853196.8
G10L 21/0316	A61C 7/00	(47) 11.01.2023
(11) EP3147901	(11) EP2076207	(87) JP2017034433
(21) EP16185469.0	(21) EP07854148.9	29.03.2018
(47) 11.01.2023	(47) 11.01.2023	(22) 25.09.2017
(22) 24.08.2016	(87) US2007081707	(54) METHOD FOR MANUFACTURING A
(54) AUDIO SIGNAL PROCESSING DEVICE,	02.05.2008	RARE EARTH SINTERED MAGNET
AUDIO SIGNAL PROCESSING	(22) 18.10.2007	(73) Nitto Denko Corporation
METHOD, AND RECORDING MEDIUM	(54) DIGITAL ORTHODONTIC TREATMENT	(72) FUJIKAWA, Kenichi
STORING A PROGRAM	PLANNING	OZEKI, Izumi
(73) FUJITSU LIMITED	(73) 3M Innovative Properties Company	YAMAMOTO, Takashi
(72) Matsuo, Naoshi	(72) CINADER, David K., Jr.	EBE, Hirofumi
(31) 2015190254	RABY, Richard E.	NOBUTA, Takuya
(32) 28.09.2015	STARK, Nicholas A.	(31) 2016185997
(33) Japan	(31) 551372	(32) 23.09.2016
(51) G11C 5/06	(32) 20.10.2006	(33) Japan
G11C 7/10	(33) United States of America	(51) H01F 38/16
G06F 13/16	(51) G21K 1/02	H02M 5/12
(11) EP3923287	(11) EP3251127	H02M 5/22
(21) EP21176841.1	(21) EP16705892.4	H02M 7/10
(47) 11.01.2023	(47) 11.01.2023	H01F 27/34
(22) 11.04.2008	(87) AT2016000004	H02M 7/23
(54) MEMORY SYSTEM WITH POINT-TO-	04.08.2016	H02M 1/00
POINT REQUEST INTERCONNECT	(22) 22.01.2016	H01F 27/32
(73) Rambus Inc.	(54) SCATTERED-RAY GRID	H02M 7/48
(72) PEREGO, Richard, E.	(73) Plansee SE	H02M 7/81
WARE, Frederick, A.	(72) GLATZ, Wolfgang	(11) EP3767653
(31) 988826 P	KESTLER, Heinrich	(21) EP19186462.8
911435 P	TABERNIG, Bernhard	(47) 11.01.2023
(32) 19.11.2007	(31) 182015 U	(22) 16.07.2019
12.04.2007	(32) 27.01.2015	(54) TRANSFORMER ASSEMBLY
(33) United States of America	(33) Austria	WITH MEDIUM FREQUENCY
United States of America	(51) H01B 13/00	TRANSFORMERS
(51) G16H 40/20	H01B 13/14	(73) ABB Schweiz AG
G06Q 10/08	(11) EP3172742	(72) Drogenik, Uwe
A61M 1/02	(21) EP15752932.2	Gradinger, Thomas
(11) EP3427169	(47) 11.01.2023	Canales, Francisco
(21) EP17706517.4	(87) EP2015066800	(51) H01G 9/00
(47) 11.01.2023	28.01.2016	H01G 9/028
(87) EP2017054446	(22) 22.07.2015	H01G 9/15
14.09.2017	(54) METHOD FOR PRODUCING AN	(11) EP3770932
(22) 27.02.2017	ELECTRICAL LINE, ELECTRICAL	(21) EP19211116.9
(54) DEVICE FOR BLOOD CONTAINER	LINE, AND VEHICLE ON-BOARD	(47) 11.01.2023
PROCESSING	POWER SUPPLY SYSTEM HAVING A	(22) 25.11.2019
(73) Fresenius Kabi Deutschland GmbH	CORRESPONDING ELECTRICAL LINE	(54) METHOD FOR MANUFACTURING
(72) REMONDI, Fabio	(73) LEONI Kabel GmbH	SOLID ELECTROLYTE ALUMINUM
(31) PCT/EP2016/159339	(72) KÖPPENDORFER, Erwin	ELECTROLYTIC CAPACITOR
(32) 09.03.2016	SCHILL, Markus	(73) Capxon Electronic Technology Co., Ltd
(33) World Intellectual Property Office (WIPO)	(31) 102014214461	(72) LIN, Yizhu
(51) G16H 50/20	(32) 23.07.2014	(31) 201910663123
G16H 20/17	(33) Germany	(32) 22.07.2019
G16H 40/67	(51) H01F 1/057	(33) China
(11) EP3479262	H01F 1/00	(51) H01H 3/14
(21) EP17725003.2	H01F 41/02	H01H 21/26

A61B 17/00	(11) EP3526808	HOU, David Muqing
G05G 1/42	(21) EP17778056.6	COX, Michael S.
(11) EP3837705	(47) 11.01.2023	YUAN, Zheng
(21) EP19773558.2	(87) US2017052368	L'HEUREUX, James
(47) 11.01.2023	19.04.2018	(31) 201615147974
(87) IB2019057859	(22) 20.09.2017	201562196549 P
26.03.2020	(54) ELECTRICAL SWITCHING APPARATUS	(32) 06.05.2016
(22) 18.09.2019	AND SENSING ASSEMBLY THEREFOR	24.07.2015
(54) FOOT CONTROLLER WITH	(73) Eaton Intelligent Power Limited	(33) United States of America
ADJUSTABLE TREADLE	(72) MILLER, Theodore J.	United States of America
(73) Alcon Inc.	WISE, James I.	(51) H01J 37/32
(72) JAWIDZIK, Geoffrey C.	PATEL, Sunnybhai	H01J 37/34
(31) 201862732705 P	(31) 201615290008	(11) EP3419044
(32) 18.09.2018	(32) 11.10.2016	(21) EP18020270.7
(33) United States of America	(33) United States of America	(47) 11.01.2023
(51) H01H 9/00	(51) H01H 71/08	(22) 20.06.2018
H01H 3/42	H01H 71/02	(54) PEPVD MACHINE
(11) EP3895193	H01H 11/00	(73) Bobst Manchester Limited
(21) EP19805237.5	(11) EP3176806	(72) Copeland, Nicholas John
(47) 11.01.2023	(21) EP16196976.1	(31) 17020267
(87) EP2019081287	(47) 11.01.2023	(32) 22.06.2017
18.06.2020	(22) 03.11.2016	(33) European Patent Office (EPO)
(22) 14.11.2019	(54) SWITCH WITH PLUG-IN MODULES	(51) H01J 37/32
(54) TRANSMISSION FOR AN ON-LOAD	(73) Siemens Aktiengesellschaft	H01Q 1/00
TAP CHANGER	(72) Grasnick, Steffen	(11) EP3896717
(73) Maschinenfabrik Reinhausen GmbH	(31) 102015223882	(21) EP21168282.8
(72) HEROLD, Stefan	(32) 01.12.2015	(47) 11.01.2023
(31) 102018132027	(33) Germany	(22) 14.04.2021
(32) 13.12.2018	(51) H01J 37/32	(54) PLASMA PROCESSING DEVICE WITH
(33) Germany	C23C 16/27	UTILIZING A HIGH FREQUENCY
(51) H01H 33/59	C23C 16/455	ANTENNA
H01H 9/54	(11) EP3665715	(73) EMD Corporation
(11) EP3091626	(21) EP18843771.9	Tomoeogawa Co., Ltd.
(21) EP14876937.5	(47) 11.01.2023	(72) EBE, Akinori
(47) 11.01.2023	(87) US2018045820	TSUDA, Hajime
(87) KR2014013067	14.02.2019	MORIUCHI, Hideki
09.07.2015	(22) 08.08.2018	(31) 2020073436
(22) 30.12.2014	(54) MICROWAVE REACTOR FOR	(32) 16.04.2020
(54) HIGH-VOLTAGE DC CIRCUIT	DEPOSITION OR TREATMENT OF	(33) Japan
BREAKER	CARBON COMPOUNDS	(51) H01J 37/32
(73) Hyosung Heavy Industries Corporation	(73) Applied Materials, Inc.	H05H 1/24
(72) KIM, Byung Chol	(72) LIANG, Qiwei	A61L 2/14
HAN, Se Hee	ZHOU, Jie	C23C 14/00
(31) 20130167886	KHAN, Adib M.	C23C 16/442
(32) 30.12.2013	PISHARODY, Gautam	(11) EP3751596
(33) Korea (Republic)	CHEN, Guannan	(21) EP19189770.1
(51) H01H 36/00	YING, Chentsau	(47) 11.01.2023
B60J 5/00	NEMANI, Srinivas D.	(22) 02.08.2019
B60J 5/04	(31) 201815879371	(54) ELECTRODE ASSEMBLY, DIELECTRIC
G06F 3/0488	201762543914 P	BARRIER DISCHARGE SYSTEM AND
H03K 17/96	(32) 24.01.2018	USE THEREOF
(11) EP3690912	10.08.2017	(73) NanoGuard Technologies, LLC
(21) EP18861602.3	(33) United States of America	(72) HOCHWALT, Mark A.
(47) 11.01.2023	United States of America	(31) 201916442380
(87) JP2018027649	(51) H01J 37/32	(32) 14.06.2019
04.04.2019	C23C 16/44	(33) United States of America
(22) 24.07.2018	C23C 16/507	(51) H01J 49/04
(54) OPERATION INPUT DEVICE AND	(11) EP3326193	H01J 49/06
DOOR HANDLE	(21) EP16830965.6	H01J 49/16
(73) Alps Alpine Co., Ltd.	(47) 11.01.2023	H01J 49/00
(72) OSHITA, Kazuhito	(87) US2016032091	G01N 33/68
TAKAI, Daisuke	02.02.2017	G01N 33/92
NAKAMURA, Toshiki	(22) 12.05.2016	A61B 10/02
(31) 2017191202	(54) METHOD AND APPARATUS FOR GAS	A61B 10/00
(32) 29.09.2017	ABATEMENT	A61B 17/32
(33) Japan	(73) Applied Materials, Inc.	A61B 18/14
(51) H01H 71/02	(72) WANG, Rongping	A61B 18/20
H01H 71/08	ZENG, Jibing	A61B 18/00

G01N 3/00	(54) WET PROCESS MODULE AND	(72) LIU, Weifeng
G01N 9/00	METHOD OF OPERATION	(31) 201210165554
(11) EP3266037	(73) Suss MicroTec Lithography GmbH	(32) 25.05.2012
(21) EP16709546.2	(72) BRAUN, Michael	(33) China
(47) 11.01.2023	SCHUTZBACH, Simon	(51) H01L 25/07
(87) GB2016050612	(31) 2025916	H02M 7/48
15.09.2016	(32) 25.06.2020	H01L 25/18
(22) 07.03.2016	(33) Netherlands	H01L 23/373
(54) IMPROVED IONISATION OF SAMPLES	(51) H01L 23/473	H01L 23/498
PROVIDED AS AEROSOL, SMOKE OR	(11) EP3792969	H01L 21/56
VAPOUR	(21) EP20191938.8	(11) EP2899757
(73) Micromass UK Limited	(47) 11.01.2023	(21) EP13839748.4
(72) JONES, Emrys	(22) 20.08.2020	(47) 11.01.2023
KARANCSI, Tamás	(54) SEMICONDUCTOR PACKAGE HAVING	(87) JP2013074895
PRINGLE, Steven Derek	LIQUID-COOLING LID	27.03.2014
BALOG, Júlia	(73) MEDIATEK INC.	(22) 13.09.2013
SIMON, Dániel	(72) HSU, Chia-Hao	(54) POWER MODULE SEMICONDUCTOR
GÖDÖRHÁZY, Lajos	CHEN, Tai-Yu	DEVICE AND INVERTER DEVICE,
SZALAY, Dániel	KUO, Sheng-Liang	POWER MODULE SEMICONDUCTOR
TAKÁTS, Zoltán	YANG, Bo-Jiun	DEVICE PRODUCING METHOD, AND
(31) 201518369	(31) 202016989919	MOLD
201516003	202062991618 P	(73) Rohm Co., Ltd.
201503878	201962896028 P	(72) HANADA, Toshio
201503863	(32) 11.08.2020	(31) 2012207194
201503867	19.03.2020	2012206947
201503877	05.09.2019	(32) 20.09.2012
201503864	(33) United States of America	20.09.2012
201503876	United States of America	(33) Japan
201503879	United States of America	Japan
(32) 16.10.2015	(51) H01L 25/065	(51) H01L 27/32
09.09.2015	G06F 15/78	(11) EP3297028
06.03.2015	H01L 23/14	(21) EP17191903.8
06.03.2015	H01L 23/538	(47) 11.01.2023
06.03.2015	H01L 25/18	(22) 19.09.2017
06.03.2015	H04L 49/101	(54) LIGHT EMITTING DIODE DISPLAY
06.03.2015	H04L 49/40	DEVICE
06.03.2015	H04L 49/109	(73) Samsung Display Co., Ltd.
06.03.2015	(11) EP2641270	(72) Moon, Sung-Jae
(33) United Kingdom	(21) EP11749962.4	Kim, Dong Gyu
United Kingdom	(47) 11.01.2023	Park, Sun
United Kingdom	(87) US2011043743	(31) 20160120119
United Kingdom	24.05.2012	(32) 20.09.2016
United Kingdom	(22) 12.07.2011	(33) Korea (Republic)
United Kingdom	(54) MULTICHIP MODULE FOR	(51) H01L 27/32
United Kingdom	COMMUNICATIONS	G02F 1/1345
United Kingdom	(73) Xilinx, Inc.	(11) EP3809468
United Kingdom	(72) WU, Ephrem, C.	(21) EP20178826.2
(51) H01L 21/60	(31) 948000	(47) 11.01.2023
H01L 23/31	(32) 17.11.2010	(22) 08.06.2020
H01L 23/49	(33) United States of America	(54) DISPLAY DEVICE
H01L 25/065	(51) H01L 25/065	(73) Samsung Display Co., Ltd.
(11) EP2557594	H01L 23/367	(72) SHIN, Dong Hee
(21) EP12176963.2	H01L 23/488	LEE, Geun Ho
(47) 11.01.2023	H05K 1/14	LEE, Yong Hee
(22) 18.07.2012	H01L 23/538	(31) 20190128563
(54) Semiconductor device reducing risks of a	H01L 23/00	(32) 16.10.2019
wire short-circuit and a wire flow	H01L 25/10	(33) Korea (Republic)
(73) Longitude Licensing Limited	H01L 23/373	(51) H01L 29/778
(72) Fujiwara, Shori	H05K 1/18	H01L 29/06
(31) 2011174576	H05K 3/46	H01L 29/40
(32) 10.08.2011	(11) EP2819163	H01L 29/20
(33) Japan	(21) EP12877457.7	H01L 29/417
(51) H01L 21/67	(47) 11.01.2023	H01L 29/423
(11) EP3929968	(87) CN2012083609	(11) EP2270871
(21) EP21179639.6	28.11.2013	(21) EP10183607.0
(47) 11.01.2023	(22) 26.10.2012	(47) 11.01.2023
(22) 15.06.2021	(54) CHIP STACK STRUCTURE	(22) 24.03.2005
	(73) Huawei Technologies Co., Ltd.	

(54) WIDE BANDGAP HEMTS WITH SOURCE CONNECTED FIELD PLATES	(22) 14.11.2019	YUN, Sung Young
(73) Cree, Inc.	(54) MEMORY DEVICE AND METHOD FOR ITS OPERATION	LEE, Gae Hwang
(72) Wu, Yifeng	(73) Jozef Stefan Institute	LIM, Seon-Jeong
Parikh, Primit	Center of Excellence on Nanoscience and Nanotechnology - Nanocenter, Ljubljana	JIN, Yong Wan
Mishra, Umesh	(31) 20160081554	(31) 20160081554
Moore, Marcia	(72) MIHAILOVIC, Dragan	(32) 29.06.2016
(31) 958970	SVETIN, Damjan	(33) Korea (Republic)
570519 P	MRAZ, Anze	(51) H01L 51/50
(32) 04.10.2004	VENTURINI, Rok	C09K 11/06
11.05.2004	(31) 201818713	C07C 211/61
(33) United States of America	(32) 16.11.2018	C07D 333/76
United States of America	(33) United Kingdom	C07D 307/91
(51) H01L 29/861	(51) H01L 43/14	(11) EP3790857
H01G 7/02	H01L 27/22	(21) EP20801134.6
H01L 29/93	H01L 43/06	(47) 11.01.2023
H01L 27/11507	(11) EP3884531	(87) JP2020024931
H01L 49/02	(21) EP19808646.4	30.12.2020
H01L 27/10	(47) 11.01.2023	(22) 25.06.2020
H01L 27/102	(87) IB2019060044	(54) COMPOUND, MATERIAL FOR ORGANIC ELECTROLUMINESCENCE ELEMENT, ORGANIC ELECTROLUMINESCENCE ELEMENT AND ELECTRONIC DEVICE
(11) EP3114711	(22) 21.11.2019	(73) IDEMITSU KOSAN CO., LTD.
(21) EP15703865.4	(54) HALL INTEGRATED CIRCUIT AND CORRESPONDING METHOD OF MANUFACTURING OF A HALL INTEGRATED CIRCUIT USING WAFER STACKING	(72) KUDO, Yu
(47) 11.01.2023	(73) LFoundry S.r.l.	HAKETA, Tasuku
(87) DE2015100029	(72) SCHMIDT, Carsten	ITO, Hirokatsu
11.09.2015	BLASINI, Mario	TAKAHASHI, Yusuke
(22) 26.01.2015	SPITZLSPERGER, Gerhard	(31) 2019122081
(54) DETECTOR COMPRISING A VARICAP DIODE	MONTAGNA, Alessandro	(32) 28.06.2019
(73) Helmholtz-Zentrum Dresden - Rossendorf e.V.	(31) 18207662	(33) Japan
(72) SCHMIDT, Heidemarie	(32) 21.11.2018	(51) H01L 51/54
SKORUPA, Ilona	(33) European Patent Office (EPO)	(11) EP3608986
PRUCNAL, Slawomir	(51) H01L 51/30	(21) EP19189867.5
BÜRGER, Danilo	(11) EP3433884	(47) 11.01.2023
BOGUSZ, Agnieszka	(21) EP17719042.8	(22) 02.08.2019
SELVARAJ, Laveen	(47) 11.01.2023	(54) ORGANIC EMITTING COMPOUND, AND ORGANIC LIGHT EMITTING DIODE AND ORGANIC LIGHT EMITTING DISPLAY DEVICE INCLUDING THE SAME
(31) 102014105639	(87) US2017023520	(73) LG Display Co., Ltd.
102014003039	28.09.2017	(72) YOO, Mi-Sang
(32) 22.04.2014	(22) 22.03.2017	BAEK, Jeong-Eun
07.03.2014	(54) DIAZIRINE CONTAINING ORGANIC ELECTRONIC COMPOSITIONS AND DEVICE THEREOF	YANG, Joong-Hwan
(33) Germany	(73) Promerus, LLC	SEO, Bo-Min
Germany	Flexenable Limited	(31) 20180091234
(51) H01L 31/0725	(72) RHODES, Larry, F.	(32) 06.08.2018
H01L 51/42	BURGOON, Hugh	(33) Korea (Republic)
H01L 27/30	AFONINA, Irina	(51) H01L 51/56
H01L 31/043	BACKLUND, Tomas	(11) EP3734683
(11) EP3583631	MORLEY, Aurelie	(21) EP19858777.6
(21) EP18707955.3	(31) 201662311598 P	(47) 11.01.2023
(47) 11.01.2023	(32) 22.03.2016	(87) KR2019009812
(87) GB2018050443	(33) United States of America	19.03.2020
23.08.2018	(51) H01L 51/42	(22) 06.08.2019
(22) 20.02.2018	H01L 27/30	(54) SUBLIMATION PURIFICATION APPARATUS AND SUBLIMATION PURIFICATION METHOD
(54) MULTIJUNCTION PHOTOVOLTAIC DEVICE	(11) EP3264482	(73) LG CHEM, LTD.
(73) Oxford Photovoltaics Limited	(21) EP17177002.7	(72) HONG, Seok Kwang
(72) KIRNER, Simon	(47) 11.01.2023	KIM, Hyoung Seok
(31) 201702720	(22) 20.06.2017	LEE, Hun Young
(32) 20.02.2017	(54) ORGANIC PHOTOELECTRONIC DEVICE AND IMAGE SENSOR	JEONG, Kwang Jin
(33) United Kingdom	(73) Samsung Electronics Co., Ltd	SHIN, Young Hwan
(51) H01L 39/16	(72) LEEM, Dong-Seok	(31) 20190066109
H01L 45/00	LEE, Kwang Hee	20180109089
H01L 27/24	YAGI, Tadao	(32) 04.06.2019
G11C 11/44		
(11) EP3881365		
(21) EP19805621.0		
(47) 11.01.2023		
(87) EP2019081375		
22.05.2020		

12.09.2018	H01M 4/13	(54) ELECTRODE COMPOSITION FOR A
(33) Korea (Republic)	H01M 8/18	CATHODE OF A CELL OF A LITHIUM-
Korea (Republic)	H01M 8/20	ION BATTERY, A CATHODE SLURRY
(51) H01M 4/04	H01M 8/22	COMPOSITION, A CATHODE AND THE
B30B 3/00	H01M 4/02	BATTERY INCORPORATING IT
H01M 4/139	H01M 10/0525	(73) ARLANXEO Deutschland GmbH
H01M 4/64	H01M 4/48	(72) BRANDAU, Sven
H01M 4/66	(11) EP3694032	KRIEMEN, Ella
(11) EP3460881	(21) EP20151232.4	(31) 18213863
(21) EP17788094.5	(47) 11.01.2023	(32) 19.12.2018
(47) 11.01.2023	(22) 10.03.2014	(33) European Patent Office (EPO)
(87) JP2017007410	(54) ASYMMETRIC BATTERY HAVING A	(51) H01M 4/62
23.11.2017	SEMI-SOLID CATHODE AND HIGH	H01M 10/0566
(22) 27.02.2017	ENERGY DENSITY ANODE	H01M 4/131
(54) ROLL PRESS MACHINE WITH	(73) 24M Technologies, Inc.	H01M 4/36
WRINKLE PREVENTION DEVICE, AND	(72) TAN, Taison	H01M 10/0525
ROLL PRESS METHOD	CHIANG, Yet-Ming	H01M 4/02
(73) ONO Roll Co., Ltd.	OTA, Naoki	(11) EP3731310
(72) YANAI, Katsuhiko	WILDER, Throop	(21) EP18890940.2
MORI, Shigeru	DUDUTA, Mihai	(47) 11.01.2023
(31) 2016101014	(31) 201361787372 P	(87) JP2018042605
(32) 20.05.2016	(32) 15.03.2013	27.06.2019
(33) Japan	(33) United States of America	(22) 19.11.2018
(51) H01M 4/139	(51) H01M 4/525	(54) POSITIVE ELECTRODE FOR LITHIUM
H01M 4/04	H01M 4/131	ION SECONDARY CELL, AND LITHIUM
H01M 10/052	H01M 4/505	ION SECONDARY CELL USING SAME
H01M 10/058	H01M 4/36	(73) Vehicle Energy Japan Inc.
(11) EP3972013	H01M 10/052	(72) TAKEI Yuki
(21) EP20836887.8	H01M 4/38	SUZUKI Shuichi
(47) 11.01.2023	H01M 4/48	MIKI Takeshi
(87) KR2020008951	H01M 4/587	SASAKI Hironori
14.01.2021	H01M 4/133	(31) 2017243821
(22) 08.07.2020	H01M 4/134	(32) 20.12.2017
(54) METHOD FOR MANUFACTURING	H01M 10/0525	(33) Japan
ANODE	H01M 4/02	(51) H01M 4/66
(73) LG Energy Solution, Ltd.	(11) EP3869585	H01M 4/64
(72) CHAE, Oh Byong	(21) EP20885843.1	H01M 10/0567
LEE, Yong Ju	(47) 11.01.2023	H01M 4/133
KIM, Ye Ri	(87) KR2020015011	H01M 4/58
(31) 20190081959	14.05.2021	H01M 4/136
(32) 08.07.2019	(22) 30.10.2020	H01M 4/52
(33) Korea (Republic)	(54) CATHODE COMPRISING MIXTURE	H01M 10/052
(51) H01M 4/14	LAYER HAVING DUAL LAYER	H01M 10/0569
H01M 4/62	STRUCTURE WITH DIFFERENT	(11) EP3796437
H01M 4/73	LNO AMOUNTS, AND SECONDARY	(21) EP19931444.4
H01M 4/20	BATTERY COMPRISING SAME	(47) 11.01.2023
H01M 10/12	(73) LG Energy Solution, Ltd.	(87) CN2019090407
(11) EP3306715	(72) KIM, Il Hong	03.12.2020
(21) EP16802770.4	JUNG, Byoung Hyo	(22) 06.06.2019
(47) 11.01.2023	LIM, Sung Chul	(54) LITHIUM-ION SECONDARY BATTERY
(87) JP2016002481	JANG, Min Chul	(73) Contemporary Amperex Technology Co.,
08.12.2016	(31) 20200137409	Limited
(22) 20.05.2016	20190141609	(72) LIU, Xin
(54) LEAD-ACID BATTERY AND METHOD	(32) 22.10.2020	HUANG, Qisen
FOR PRODUCING LEAD-ACID	07.11.2019	WANG, Shiwen
BATTERY	(33) Korea (Republic)	LIU, Xianghui
(73) GS Yuasa International Ltd.	Korea (Republic)	PENG, Jia
(72) OBUCHI, Susumu	(51) H01M 4/62	LI, Mingling
MOTOI, Ikumi	H01M 4/131	SHENG, Changliang
(31) 2015109832	H01M 4/505	(31) 201910473216
(32) 29.05.2015	H01M 4/525	(32) 31.05.2019
(33) Japan	H01M 4/66	(33) China
(51) H01M 4/36	(11) EP3900086	(51) H01M 8/1004
H01M 4/133	(21) EP19809468.2	H01M 8/0273
H01M 4/134	(47) 11.01.2023	(11) EP3619764
H01M 4/587	(87) EP2019082532	(21) EP18728927.7
H01M 4/38	25.06.2020	(47) 11.01.2023
H01M 10/052	(22) 26.11.2019	(87) FR2018051110

08.11.2018	VEHICLE COMPRISING THE STORAGE	H01M 50/166
(22) 03.05.2018	MODULE	H01M 50/178
(54) PREASSEMBLY OF ELEMENTS	(73) Colibri Energy GmbH	H01M 50/202
FOR THE MANUFACTURE OF	(72) MÜLLER, Lorenz	H01M 50/284
A MEMBRANE / ELECTRODES	HEINE, Patrick	H01M 50/296
ASSEMBLY	(31) 102017117067	H01M 50/533
(73) Commissariat à l'Energie Atomique et	(32) 27.07.2017	(11) EP3531495
aux Energies Alternatives	(33) Germany	(21) EP18794611.6
(72) BUVAT, Pierrick	(51) H01M 10/44	(47) 11.01.2023
CARRIERE, Stéphane	H01M 10/46	(87) KR2018001706
BONNIN, Claude	H01M 10/42	08.11.2018
SERRE, Jérôme	H02J 7/00	(22) 08.02.2018
NGUYEN, Paul	H01M 50/20	(54) BATTERY PACK AND
(31) 1753913	H01M 50/30	MANUFACTURING METHOD
(32) 03.05.2017	H01M 50/204	THEREFOR
(33) France	H01M 10/48	(73) LG Energy Solution, Ltd.
(51) H01M 10/052	(11) EP2609642	(72) LEE, Bum Jick
D04H 1/425	(21) EP11741034.0	(31) 20170056974
H01M 4/485	(47) 11.01.2023	(32) 04.05.2017
H01M 10/0525	(87) US2011044970	(33) Korea (Republic)
H01M 50/429	01.03.2012	(51) H01M 50/20
H01M 50/414	(22) 22.07.2011	H01M 10/625
H01M 50/423	(54) BATTERY SYSTEM AND ITS	H01M 10/6556
H01M 50/426	CHARGING METHOD	(11) EP3641008
H01M 50/44	(73) The Boeing Company	(21) EP19203917.0
D04H 1/4258	(72) SHEAHAN, James J., Jr.	(47) 11.01.2023
(11) EP3561935	(31) 861010	(22) 17.10.2019
(21) EP17888890.5	(32) 23.08.2010	(54) BATTERY MODULE
(47) 11.01.2023	(33) United States of America	(73) Samsung SDI Co., Ltd.
(87) JP2017046361	(51) H01M 10/615	(72) MOON, Soodeok
05.07.2018	H01M 10/625	KIM, Sungyong
(22) 25.12.2017	H01M 10/633	KIM, Jaeho
(54) NONAQUEOUS ELECTROLYTE	(11) EP3758132	PARK, Daeyeop
BATTERY AND BATTERY PACK	(21) EP20181389.6	BAE, Jangwoong
(73) Kabushiki Kaisha Toshiba	(47) 11.01.2023	LEE, Junhyung
Toshiba Infrastructure Systems &	(22) 22.06.2020	LIM, Dooyong
Solutions Corporation	(54) SWITCH CONTROL DEVICE AND	LIM, Jisoon
(72) HASEGAWA, Aki	METHOD, MOTOR CONTROLLER, AND	HEO, Eungi
YAMAMOTO, Dai	BATTERY PACK HEATING CONTROL	(31) 20180125548
SHIKOTA, Masataka	SYSTEM	(32) 19.10.2018
NAKAZAWA, Toshitada	(73) Contemporary Amperex Technology Co.,	(33) Korea (Republic)
(31) 2016250979	Limited	(51) H01M 50/202
(32) 26.12.2016	(72) ZHENG, Xiong	H01M 50/204
(33) Japan	DAN, Zhimin	H01M 10/48
(51) H01M 10/42	ZUO, Xiyang	H01M 10/613
B60L 50/64	LI, Bao	H01M 10/6554
H01M 50/242	WANG, Tiancong	(11) EP3918649
H01M 50/209	(31) 201910548124	(21) EP20701733.6
H01M 50/503	(32) 24.06.2019	(47) 11.01.2023
H02J 7/00	(33) China	(87) EP2020051485
H01M 50/224	(51) H01M 10/6556	06.08.2020
H01M 50/249	H01M 50/204	(22) 22.01.2020
H01M 50/278	H01M 50/262	(54) METHOD AND SYSTEM FOR
H01M 50/284	(11) EP3883006	THERMALLY CONNECTING A HEAT
H01M 50/289	(21) EP19906414.8	SOURCE OF A BATTERY SYSTEM TO
H01M 50/512	(47) 11.01.2023	A HEAT SINK OF A BATTERY SYSTEM
H01M 50/519	(87) CN2019079673	(73) Lisa Dräxlmaier GmbH
H01M 10/613	02.07.2020	(72) SEIDL, Stefan
H01M 50/296	(22) 26.03.2019	HAHN, Alexander
(11) EP3435440	(54) BATTERY PACK	(31) 102019102003
(21) EP18185202.1	(73) Contemporary Amperex Technology Co.,	(32) 28.01.2019
(47) 11.01.2023	Limited	(33) Germany
(22) 24.07.2018	(72) BAI, Xueyu	(51) H01M 50/209
(54) STORAGE MODULE FOR	GU, Yanlong	H01M 50/296
PROVIDING ELECTRICAL ENERGY	(31) 201822246621 U	H01M 50/505
COMPRISING BORDERING MODULE,	(32) 29.12.2018	H01M 50/522
ARRANGEMENT AND TRANSPORT	(33) China	(11) EP3432383
	(51) H01M 50/105	(21) EP16894391.8

(47) 11.01.2023	(31) 20190022719	(47) 11.01.2023
(87) JP2016058383	(32) 26.02.2019	(22) 03.06.2019
21.09.2017	(33) Korea (Republic)	(54) CALIBRATING A PHASED ARRAY
(22) 16.03.2016	(51) H01Q 1/22	SYSTEM
(54) BATTERY PACK	H01Q 1/24	(73) Infineon Technologies AG
(73) Kabushiki Kaisha Toshiba	H01Q 1/38	(72) VEHOVC, Samo
Toshiba Infrastructure Systems &	H01Q 1/42	TSVELYKH, Ivan
Solutions Corporation	H01Q 1/52	(31) 201815997048
(72) SHIMIZU, Norio	H01Q 9/04	(32) 04.06.2018
UCHIDA, Toshinori	H01Q 21/00	(33) United States of America
KURODA, Kazuto	H01Q 21/06	(51) H01Q 7/00
SEKINO, Masahiro	(11) EP3723191	H01Q 3/04
(51) H01M 50/211	(21) EP20166429.9	H01Q 3/34
H01M 50/296	(47) 11.01.2023	H01Q 7/08
H01M 4/04	(22) 27.03.2020	H01Q 3/26
H01M 4/131	(54) ANTENNA ASSEMBLY AND	H01Q 3/30
H01M 4/62	ELECTRONIC DEVICE	H01Q 21/08
H01M 4/36	(73) GUANGDONG OPPO MOBILE	H01Q 21/30
H01M 10/0525	TELECOMMUNICATIONS CORP., LTD.	H04B 5/00
(11) EP3300144	(72) JIA, Yuhu	(11) EP3675281
(21) EP17157839.6	(31) 201910283830	(21) EP18847932.3
(47) 11.01.2023	(32) 08.04.2019	(47) 11.01.2023
(22) 24.02.2017	(33) China	(87) JP2018025139
(54) NONAQUEOUS ELECTROLYTE	(51) H01Q 1/40	28.02.2019
BATTERY, BATTERY PACK AND	H01Q 21/00	(22) 03.07.2018
VEHICLE	H01Q 9/28	(54) DUAL LOOP ANTENNA
(73) Kabushiki Kaisha Toshiba	H01Q 1/38	(73) Nippon Telegraph and Telephone
(72) YAMASHITA, Yasunobu	(11) EP3555951	Corporation
ISOZAKI, Yoshiyuki	(21) EP17791226.8	TOYOTA JIDOSHA KABUSHIKI KAISHA
ISHIBASHI, Mitsuru	(47) 11.01.2023	(72) SASAKI Ai-ichiro
ISE, Kazuki	(87) US2017055059	KODATE Junichi
TAKAMI, Norio	21.06.2018	FUKE Jumpei
(31) 2016183631	(22) 04.10.2017	OKADA Hiroki
(32) 21.09.2016	(54) PRINTED WIRING BOARD WITH	OKUYAMA Hiroko
(33) Japan	RADIATOR AND FEED CIRCUIT	(31) 2017161079
(51) H01M 50/502	(73) Raytheon Company	(32) 24.08.2017
H01R 13/11	(72) ISOM, Robert, S.	(33) Japan
H01R 11/28	(31) 201615379761	(51) H01Q 9/42
H01M 50/204	(32) 15.12.2016	H01Q 9/46
(11) EP3611802	(33) United States of America	H01Q 1/24
(21) EP19188026.9	(51) H01Q 1/48	H01Q 23/00
(47) 11.01.2023	H01Q 9/42	H01Q 5/371
(22) 24.07.2019	H01Q 1/24	(11) EP3324485
(54) MULTIFUNCTIONAL HIGH-VOLTAGE	H01Q 21/28	(21) EP17209178.7
CONNECTOR AND BATTERY	H01Q 21/30	(47) 11.01.2023
PRODUCT	H01Q 5/371	(22) 18.04.2006
(73) Contemporary Ampere Technology Co.,	H01Q 5/378	(54) MOBILE TERMINAL WITH A TUNABLE
Limited	(11) EP3379649	MULTI-RESONANCE MONOPOLE
(72) LI, Jianwei	(21) EP16880820.2	ANTENNA
RUAN, Shengshen	(47) 11.01.2023	(73) QUALCOMM Incorporated
WENG, Zhiqin	(87) CN2016106980	(72) Jagielski, Ole
ZHOU, Linggang	06.07.2017	Svensden, Simon
WANG, Peng	(22) 23.11.2016	(51) H01Q 21/26
(31) 201821314004 U	(54) ANTENNA UNIT, MIMO ANTENNA, AND	H01Q 21/06
(32) 15.08.2018	TERMINAL	H01Q 21/24
(33) China	(73) Huawei Technologies Co., Ltd.	H01Q 1/24
(51) H01M 50/543	(72) WEN, Geyi	H01Q 25/00
(11) EP3817090	WANG, Jun	(11) EP3120416
(21) EP20763079.9	ZHANG, Ming	(21) EP15765512.7
(47) 11.01.2023	SHI, Xueliang	(47) 11.01.2023
(87) KR2020002681	(31) 201511020439	(87) US2015020781
03.09.2020	(32) 29.12.2015	24.09.2015
(22) 25.02.2020	(33) China	(22) 16.03.2015
(54) BATTERY MODULE	(51) H01Q 3/26	(54) COMPACT ANTENNA ARRAY USING
(73) LG Energy Solution, Ltd.	H04B 17/12	VIRTUAL ROTATION OF RADIATING
(72) JUNG, Kitaek	H04B 17/14	VECTORS
YIM, Sangwook	(11) EP3579339	(73) Quintel Cayman Limited
KIM, Younggil	(21) EP19177855.4	(72) SONG, Peter Chun Teck

BARKER, David Edwin	(47) 11.01.2023	H05K 7/18
(31) 201461954344 P	(22) 19.09.2017	H02B 1/048
(32) 17.03.2014	(54) METHOD OF OPERATING A	H02B 1/36
(33) United States of America	CONNECTOR LATCH	H02B 1/46
(51) H01R 4/48	(73) J.S.T. Corporation	(11) EP3890130
H01R 11/11	(72) Holub, Franklin A.	(21) EP19901371.5
H01R 13/42	(31) 201615384755	(47) 11.01.2023
H01R 13/506	(32) 20.12.2016	(87) CN2019102723
H01R 13/58	(33) United States of America	25.06.2020
(11) EP3767751	(51) H01S 5/0234	(22) 27.08.2019
(21) EP20180127.1	H01S 5/02345	(54) POWER DISTRIBUTION APPARATUS
(47) 11.01.2023	G02B 6/42	AND POWER DISTRIBUTION SYSTEM
(22) 16.06.2020	H01S 5/02	(73) Huawei Digital Power Technologies Co.,
(54) CONNECTOR	(11) EP3913752	Ltd.
(73) YAZAKI CORPORATION	(21) EP21175233.2	(72) ZHAO, Fugao
(72) Ito, Naoki	(47) 11.01.2023	MA, Cheng
(31) 2019133312	(22) 21.05.2021	RAN, Xiaoke
(32) 19.07.2019	(54) CARRIER BASED LASER ASSEMBLY	(31) 201822168343 U
(33) Japan	AND METHOD OF ASSEMBLY	(32) 21.12.2018
(51) H01R 12/91	THEREOF WITH PHOTONIC	(33) China
(11) EP3633797	INTEGRATED CIRCUIT	(51) H02B 13/045
(21) EP19200684.9	(73) Ranovus Inc.	(11) EP4020728
(47) 11.01.2023	(72) HICKEY, Ryan Murray	(21) EP21203699.0
(22) 01.10.2019	BECKETT, Douglas J. S.	(47) 11.01.2023
(54) CONNECTOR	HUTCHINS, Jeffrey Otha	(22) 20.10.2021
(73) Japan Aviation Electronics Industry,	(31) 202063029031 P	(54) TANK FOR MEDIUM-VOLTAGE
Limited	(32) 22.05.2020	ELECTRICAL DEVICE
(72) AOKI, Shigeharu	(33) United States of America	(73) Schneider Electric Industries SAS
KIMURA, Akira	(51) H01S 5/0625	(72) GENTILS, François
(31) 2018188910	H01S 5/10	BONFILS, Jean-Michel
(32) 04.10.2018	G02B 27/01	(31) 2014059
(33) Japan	H04N 9/31	(32) 23.12.2020
(51) H01R 13/506	H01S 5/06	(33) France
H01R 31/06	H01S 5/40	(51) H02G 3/04
H01R 13/629	(11) EP3916935	(11) EP4007095
(11) EP3512050	(21) EP21172853.0	(21) EP21210987.0
(21) EP18020556.9	(47) 11.01.2023	(47) 11.01.2023
(47) 11.01.2023	(22) 07.05.2021	(22) 29.11.2021
(22) 26.10.2018	(54) EDGE-EMITTING LASER DIODE WITH	(54) EXTERIOR MEMBER FOR ELECTRIC
(54) LAND-BASED ELECTRIC VEHICLE	IMPROVED POWER STABILITY	WIRE AND WIRE HARNESS
CHARGING PLUG	(73) Exalos AG	(73) Yazaki Corporation
(73) Dr. Ing. h.c. F. Porsche AG	(72) CASTIGLIA, ANTONINO FRANCESCO	(72) Watanabe, Masafumi
(72) Götz, Stefan	ROSSETTI, MARCO	Murakoshi, Hiroyuki
Rönfanz, Jari	MALINVERNI, MARCO	(31) 2020198000
Reber, Volker	DÜLK, MARCUS	(32) 30.11.2020
(31) 102018100825	VELEZ, CHRISTIAN	(33) Japan
(32) 16.01.2018	(31) 202007382	(51) H02G 3/06
(33) Germany	(32) 19.05.2020	H02G 3/08
(51) H01R 13/52	(33) United Kingdom	(11) EP3327884
H01R 13/627	(51) H01S 5/183	(21) EP17200923.5
H01R 13/629	(11) EP3465845	(47) 11.01.2023
H01R 107/00	(21) EP17807269.0	(22) 09.11.2017
(11) EP3525295	(47) 11.01.2023	(54) PIPE INTRODUCTION
(21) EP19155886.5	(87) US2017034458	(73) Agro AG
(47) 11.01.2023	07.12.2017	(72) Meier, Niklaus
(22) 07.02.2019	(22) 25.05.2017	(31) 15622016
(54) SEALED CONNECTOR WITH AXIAL	(54) VCSEL ILLUMINATOR PACKAGE	(32) 28.11.2016
ASSEMBLY	(73) Princeton Optronics, Inc.	(33) Switzerland
(73) Contact Italia S.r.l.	(72) CHEN, Tong	(51) H02G 3/22
(72) MAGGI, Francesco	GHOSH, Chuni	B29C 45/00
(31) 201800002640	WANG, Qing	B29C 45/16
(32) 13.02.2018	KOVSH, Alexey	(11) EP3660995
(33) Italy	WATKINS, Laurence	(21) EP18208917.7
(51) H01R 13/627	(31) 201662345025 P	(47) 11.01.2023
H01R 13/641	(32) 03.06.2016	(22) 28.11.2018
(11) EP3312943	(33) United States of America	(54) INTEGRALLY FORMED CABLE
(21) EP17191762.8	(51) H02B 1/26	CONNECTION
	H02B 1/04	(73) WISKA Hoppmann GmbH

(72) GEHRE, Peter	(11) EP3304673	H02J 7/04
(51) H02G 3/22	(21) EP16726302.9	B60L 53/10
H01R 13/523	(47) 11.01.2023	B60L 58/24
(11) EP3596790	(87) EP2016062009	(11) EP3942666
(21) EP18711879.9	01.12.2016	(21) EP20709648.8
(47) 11.01.2023	(22) 27.05.2016	(47) 11.01.2023
(87) EP2018056214	(54) ELECTRIC SUPPLY DEVICE AND	(87) FR2020050231
20.09.2018	VEHICLE ELECTRICAL SYSTEM	24.09.2020
(22) 13.03.2018	EQUIPPED WITH THE ELECTRIC	(22) 10.02.2020
(54) ELECTRICAL PENETRATOR	SUPPLY DEVICE	(54) METHOD FOR CONTROLLING THE
ASSEMBLY	(73) Lisa Dräxlmaier GmbH	CHARGING OF A RECHARGEABLE
(73) Vetco Gray Scandinavia AS	(72) BACHMEIER, Anton	BATTERY MODULE BY MEANS
(72) RAAD, Erik	GAUBATZ, Karl-Heinz	OF A DYNAMIC PROGRAMMING
ELNAN-KUNTSEN, Jan Erik	PREIS, Christian	ALGORITHM
(31) 20170404	LICHTENBERG, Erwin	(73) PSA Automobiles SA
(32) 17.03.2017	(31) 102015108372	(72) WAHL, Antonin
(33) Norway	(32) 27.05.2015	BAGHDADI, Issam
(51) H02G 3/30	(33) Germany	DE FLAUGERGUES, Vincent
H02G 3/32	(51) H02J 3/00	(31) 1902850
(11) EP3930128	H02J 9/06	(32) 20.03.2019
(21) EP21189841.6	G01R 31/08	(33) France
(47) 11.01.2023	(11) EP2777116	(51) H02J 7/00
(22) 09.04.2019	(21) EP12798485.4	G01R 31/40
(54) APPARATUS FOR RETAINING	(47) 11.01.2023	G01R 31/52
ELECTRICAL CABLES	(87) US2012064048	H01M 10/42
(73) CMP Products Limited	16.05.2013	H01M 10/48
(72) ROBINSON, David	(22) 08.11.2012	(11) EP3958428
FRIZZELL, Lee	(54) METHODS AND APPARATUS FOR	(21) EP20808273.5
(31) 18168584	DETERMINING POWER DISTRIBUTION	(47) 11.01.2023
(32) 20.04.2018	SYSTEM TOPOLOGY USING	(87) CN2020096062
(33) European Patent Office (EPO)	DISTURBANCE DETECTION	23.12.2021
(51) H02H 1/00	(73) Eaton Intelligent Power Limited	(22) 15.06.2020
(11) EP3799670	(72) FAMILIANT, Yakov Lvovich	(54) CONTROL DEVICE, ENERGY
(21) EP18785862.6	PEREIRA, Luis Rafael	CONVERTING SYSTEM, ENERGY
(47) 11.01.2023	LEE, Kevin	CONVERTING METHOD, AND
(87) EP2018076271	HARRISON, Michael John	STORAGE MEDIUM
02.04.2020	(31) 201113291642	(73) Contemporary Amperex Technology Co.,
(22) 27.09.2018	(32) 08.11.2011	Limited
(54) LOW-VOLTAGE POWER SWITCH AND	(33) United States of America	(72) LI, Meng
ARC FAULT DETECTION UNIT WITH	(51) H02J 5/00	DAN, Zhimin
COMPENSATION DUE TO PHASE	H02J 7/02	HOU, Yizhen
SHIFTING	H05K 7/20	(51) H02J 7/00
(73) Siemens Aktiengesellschaft	H01F 38/14	H01M 10/44
(72) WENZLAFF, Karsten	(11) EP3029799	H01M 10/48
MEYER, Jörg	(21) EP15203165.4	H02J 3/38
SCHEGNER, Peter	(47) 11.01.2023	H02J 7/34
(51) H02H 9/02	(22) 09.12.2013	(11) EP3358695
H02H 9/08	(54) WIRELESS POWER TRANSMITTER	(21) EP16850680.6
(11) EP3605768	(73) Scramoge Technology Limited	(47) 11.01.2023
(21) EP18828476.4	(72) LEE, Jung Oh	(87) JP2016004403
(47) 11.01.2023	(31) 20120146957	06.04.2017
(87) CN2018094402	(32) 14.12.2012	(22) 29.09.2016
10.01.2019	(33) Korea (Republic)	(54) POWER SOURCE DEVICE,
(22) 04.07.2018	(51) H02J 7/00	DISTRIBUTED POWER SOURCE
(54) SAFE PROCESSING METHOD FOR	(11) EP3229337	SYSTEM, AND CONTROL METHOD
ACTIVE VOLTAGE REDUCTION OF	(21) EP17157568.1	THEREOF
GROUND FAULT PHASE OF NON-	(47) 11.01.2023	(73) Kyocera Corporation
EFFECTIVE GROUNDING SYSTEM	(22) 23.02.2017	(72) NAKAMURA, Kazutaka
(73) Changsha University of Science and	(54) CHARGER	(31) 2015192266
Technology	(73) Robert Bosch GmbH	(32) 29.09.2015
(72) ZENG, Xiangjun	(72) Schmehl, Florian	(33) Japan
(31) 201710550400	Osswald, Alexander	(51) H02J 7/02
(32) 06.07.2017	(31) 102016205773	H01M 10/44
(33) China	(32) 07.04.2016	H01M 10/48
(51) H02J 1/00	(33) Germany	H01M 12/06
H02J 7/34	(51) H02J 7/00	H01M 4/58
B60R 16/03	G01R 31/367	H01M 10/42
	G01R 31/396	H01M 16/00

H02J 7/00	F04D 19/04	B60K 6/12
H01M 4/02	H02K 7/14	(11) EP3580837
(11) EP3051660	(11) EP2858214	(21) EP18705860.7
(21) EP14847838.1	(21) EP13797475.4	(47) 11.01.2023
(47) 11.01.2023	(47) 11.01.2023	(87) EP2018053205
(87) JP2014071266	(87) JP2013058952	16.08.2018
02.04.2015	05.12.2013	(22) 08.02.2018
(22) 12.08.2014	(22) 27.03.2013	(54) DRIVE DEVICE FOR SUPPLYING
(54) ELECTRICITY STORAGE DEVICE AND	(54) IPM MOTOR FOR VACUUM PUMP	POWER TO HIGH-LOAD ELECTRIC
ELECTRICITY STORAGE CONTROL	(73) Edwards Japan Limited	MOTORS
METHOD	(72) NAKAGAWA, Isao	(73) Hydac International GmbH
(73) Murata Manufacturing Co., Ltd.	NONAKA, Manabu	(72) FELD, Daniel
(72) NAKAMURA, Kazuo	(31) 2012125326	MEYER, Jörg
OZAWA, Atsushi	(32) 31.05.2012	KESSLER, Markus
(31) 2013199744	(33) Japan	(31) 102017001203
(32) 26.09.2013	(51) H02K 3/32	(32) 09.02.2017
(33) Japan	H02K 3/52	(33) Germany
(51) H02J 7/04	H02K 1/14	(51) H02K 11/33
H02J 7/00	H02K 15/095	E21B 41/00
H02J 7/36	H02K 15/04	(11) EP2946068
B60L 53/53	H02K 3/28	(21) EP14700772.8
B60L 53/66	(11) EP3231064	(47) 11.01.2023
B60L 53/30	(21) EP15812889.2	(87) GB2014050117
B60L 53/68	(47) 11.01.2023	07.08.2014
B60L 58/19	(87) IB2015059366	(22) 16.01.2014
H02J 7/34	16.06.2016	(54) APPARATUS FOR POWER
B63G 8/00	(22) 04.12.2015	GENERATION
(11) EP3639348	(54) A COIL WINDING ARRANGEMENT	(73) Tendeka B.V.
(21) EP18817468.4	(73) Protean Electric Limited	(72) GREEN, Annabel
(47) 11.01.2023	(72) BELL, Jamie	NALDRETT, Garth
(87) US2018037639	BROADBRIDGE, Samuel	CRAWFORD, Calum
20.12.2018	(31) 201422131	HUNTER, John
(22) 14.06.2018	(32) 12.12.2014	MCWHINNIE, Ian David
(54) SYSTEMS AND METHODS FOR	(33) United Kingdom	COLLYER, Tim
CONFIGURABLE BATTERY CHARGING	(51) H02K 5/128	(31) 201300861
(73) Hadal, Inc.	(11) EP3631949	(32) 17.01.2013
(72) RIKOSKI, Richard, J.	(21) EP18727664.7	(33) United Kingdom
(31) 201762519279 P	(47) 11.01.2023	(51) H02K 15/00
(32) 14.06.2017	(87) DE2018100474	H02K 3/487
(33) United States of America	06.12.2018	(11) EP3269025
(51) H02J 50/12	(22) 17.05.2018	(21) EP16762105.1
H02J 50/40	(54) ACTUATOR WITH A SEALING AIR GAP	(47) 11.01.2023
H02J 50/90	SLEEVE	(87) US2016017987
H02J 50/80	(73) Schaeffler Technologies AG & Co. KG	15.09.2016
B60L 53/12	(72) FRANZ, Viktor	(22) 16.02.2016
B60L 53/38	HUCK, Michael	(54) TOOL FOR INSTALLING A WEDGE IN A
(11) EP3721531	(31) 102017111892	SLOT OF A STATOR CORE
(21) EP18803546.3	(32) 31.05.2017	(73) Siemens Energy, Inc.
(47) 11.01.2023	(33) Germany	(72) LONG JR., James
(87) EP2018025285	(51) H02K 7/00	MARTIN, Chelsey
13.06.2019	H02J 1/06	STEVENS, William G.
(22) 08.11.2018	(11) EP3776817	(31) 201514644292
(54) SYSTEM FOR CONTACTLESS	(21) EP18766060.0	(32) 11.03.2015
ENERGY TRANSMISSION, HAVING	(47) 11.01.2023	(33) United States of America
MULTIPLE PRIMARY CONDUCTOR	(87) JP2018031433	(51) H02K 15/00
SECTIONS AND AT LEAST ONE	17.10.2019	H02K 3/50
MOBILE PART, AND CORRESPONDING	(22) 24.08.2018	H02G 1/00
METHOD	(54) ACTUATOR CONTROL DEVICE	B23B 5/16
(73) Sew-Eurodrive GmbH & Co. KG	(73) SMC Corporation	(11) EP3771077
(72) SCHMIDT, Josef	(72) FUJIWARA Atsushi	(21) EP19425056.9
SCHÄFER, Thomas	IJIMA Eiji	(47) 11.01.2023
SCHÄFER, Jens	(31) 2018075182	(22) 23.07.2019
MAHLEIN, Jochen	(32) 10.04.2018	(54) PORTABLE DEVICE AND METHOD
STOCKENBERGER, Ulrich	(33) Japan	FOR RESTORING THE CYLINDRICITY
(31) 102017011163	(51) H02K 7/18	OF A GENERATOR CONDUCTOR, IN
(32) 04.12.2017	B02C 4/42	PARTICULAR A TURBO-GENERATOR
(33) Germany	B02C 21/02	CONDUCTOR
(51) H02K 1/27	B65G 23/22	(73) ANSALDO ENERGIA S.p.A.

(72) Vercelli, Giorgio Penzo, Luca Vallarino, Domenico	B23K 9/013 B23K 9/073 B23K 9/095	(54) POWER SUPPLY DEVICE AND METHOD FOR CONTROLLING POWER SUPPLY DEVICE
(51) H02K 15/02 H02K 19/10	B23K 9/10	(73) Kyosan Electric Mfg. Co., Ltd.
(11) EP2626988	(11) EP3651332	(72) YUZURIHARA, Itsuo
(21) EP13154122.9	(21) EP18828387.3	OHMA, Ryosuke
(47) 11.01.2023	(47) 11.01.2023	KUNITAMA, Hiroshi
(22) 06.02.2013	(87) JP2018015765	HOSOYAMADA, Yu
(54) Manufacturing method for a rotor and rotor	10.01.2019	(31) 2016254300
(73) KSB SE & Co. KGaA	(22) 16.04.2018	(32) 27.12.2016
(72) Bosbach, Franz Gerhard Gontermann, Daniel Könen, Michael	(54) POWER SUPPLY SYSTEM, POWER SUPPLY DEVICE, CONTROL METHOD AND CONTROL PROGRAM	(33) Japan
(31) 102012202019	(73) Daihen Corporation	(51) H02M 3/158
(32) 10.02.2012	(72) KAWAI, Hirokazu	H02M 3/07
(33) Germany	HOU, Songjie	H01M 10/44
(51) H02K 15/06	NISHISAKA, Futoshi	H02J 7/02
H02K 15/12	MANABE, Haruhiko	H02J 7/04
H02K 3/18	(31) 2017131978	H02J 50/10
(11) EP3444930	(32) 05.07.2017	H02J 50/12
(21) EP17186471.3	(33) Japan	H02M 3/156
(47) 11.01.2023	(51) H02M 1/36	H02M 3/335
(22) 16.08.2017	H02P 27/06	H04B 5/00
(54) SEGMENTED STATOR FOR A DIRECT DRIVE ELECTRICAL GENERATOR	H02P 3/18	H02J 7/00
(73) Siemens Gamesa Renewable Energy A/ S	H02P 1/02	(11) EP3841661
(72) Samanta, Subhra	H02M 7/537	(21) EP19855871.0
(51) H02K 19/20	H02M 7/493	(47) 11.01.2023
H02K 19/10	(11) EP3706303	(87) CN2019084617
(11) EP3782270	(21) EP18874924.6	05.03.2020
(21) EP19723467.7	(47) 11.01.2023	(22) 26.04.2019
(47) 11.01.2023	(87) JP2018040158	(54) WIRELESS BATTERY CHARGING WITH IMPROVED EFFICIENCY
(87) FR2019050862	09.05.2019	(73) Huawei Digital Power Technologies Co., Ltd.
24.10.2019	(22) 29.10.2018	(72) YANG, Songnan
(22) 12.04.2019	(54) INVERTER AND CONTROL SYSTEM	MAO, Xiaolin
(54) SYNCHRONOUS ELECTRICAL MACHINE	(73) Omron Corporation	WU, Baoshan
(73) Safran Electrical & Power	(72) FUKUSHIMA, Masanori	(31) 201862724371 P
(72) BOURGEOIS, Lionel	WATANABE, Ryoichi	(32) 29.08.2018
(31) 1873356	TATEYAMA, Hiroyuki	(33) United States of America
1853381	(31) 2017213053	(51) H02M 5/45
(32) 19.12.2018	(32) 02.11.2017	H02M 7/483
17.04.2018	(33) Japan	(11) EP3400644
(33) France	(51) H02M 3/00	(21) EP17706719.6
France	H02M 3/28	(47) 11.01.2023
(51) H02K 21/24	H02M 3/335	(87) EP2017053833
B61D 43/00	H02M 1/34	31.08.2017
B61K 9/04	H02M 1/00	(22) 21.02.2017
B61K 9/12	(11) EP3249795	(54) MODULAR MULTILEVEL CONVERTER AND POWER ELECTRONIC TRANSFORMER
H02K 7/18	(21) EP15878846.3	(73) Siemens Energy Global GmbH & Co. KG
(11) EP3309940	(47) 11.01.2023	(72) SHI, Lei
(21) EP17191684.4	(87) JP2015074031	YAO, Ji Long
(47) 11.01.2023	28.07.2016	ZHAO, Yan Feng
(22) 18.09.2017	(22) 26.08.2015	(31) 201610100169
(54) COVERING DEVICE OF AN AXLE BOX COMPRISING AN ELECTRIC GENERATOR	(54) DC/DC CONVERTER	(32) 23.02.2016
(73) Progress Rail Signaling S.p.A.	(73) Mitsubishi Electric Corporation	(33) China
(72) Pescioni, Marco	(72) HAYASE, Kei	(51) H02M 7/06
(31) 201600094125	(31) 2015008369	(11) EP2215708
(32) 20.09.2016	(32) 20.01.2015	(21) EP08855200.5
(33) Italy	(33) Japan	(47) 11.01.2023
(51) H02M 1/32	(51) H02M 3/155	(87) IB2008054902
H02M 3/335	H02M 3/158	04.06.2009
	H02M 3/157	(22) 21.11.2008
	H02M 1/00	(54) CAPACITIVE POWER SUPPLY
	(11) EP3553930	(73) Koninklijke Philips N.V.
	(21) EP17886451.8	(72) DE HAAN, Thijs
	(47) 11.01.2023	(31) 07121628
	(87) JP2017006745	(32) 27.11.2007
	05.07.2018	
	(22) 23.02.2017	

(33) European Patent Office (EPO)	(33) China	TSUCHIYA Atsushi
(51) H02M 7/48 H05K 7/20	(51) H02P 6/08 H02P 27/06	(51) H03B 19/14 G01S 7/02 G01S 7/36
(11) EP3518413	(11) EP3291437	(11) EP3903414
(21) EP16916739.2	(21) EP15890686.7	(21) EP21702291.2
(47) 11.01.2023	(47) 11.01.2023	(47) 11.01.2023
(87) JP2016077668 29.03.2018	(87) JP2015062644 03.11.2016	(87) EP2021052639 12.08.2021
(22) 20.09.2016	(22) 27.04.2015	(22) 04.02.2021
(54) POWER CONVERSION DEVICE	(54) AC ROTATING MACHINE CONTROL DEVICE AND ELECTRIC POWER STEERING DEVICE	(54) FREQUENCY GENERATOR ARRANGEMENT
(73) Mitsubishi Electric Corporation	(73) Mitsubishi Electric Corporation	(73) 2pi-Labs GmbH
(72) YAMABE, Shota MIKI, Shogo KODAMA, Katsuhisa	(72) MORI, Tatsuya NAKAJIMA, Shunsuke KEZOBO, Isao	(72) JAESCHKE, Timo KUEPPERS, Simon
(51) H02M 7/493 H02J 3/38	(51) H02P 8/04 H02P 8/30 H02P 8/38 H02P 1/02	(31) 20183279 20156186 (32) 30.06.2020 07.02.2020
(11) EP3657662	(11) EP3675350	(33) European Patent Office (EPO) European Patent Office (EPO)
(21) EP18306536.6	(21) EP19219132.8	(51) H03F 3/45 H03F 3/50 H03F 1/32
(47) 11.01.2023	(47) 11.01.2023	(11) EP3826176
(22) 21.11.2018	(22) 20.12.2019	(21) EP20205040.7
(54) METHOD FOR BALANCING A COMPONENT OF THE POWER SUPPLIED BY TWO POWERED INVERTERS, ASSOCIATED NETWORK AND RAIL VEHICLE	(54) A METHOD FOR CONTROLLING A STEP MOTOR	(47) 11.01.2023
(73) SpeedInnov	(73) Zhejiang University	(22) 30.10.2020
(72) MELI, Takuefou COLIN, Didier	(72) Wu, Lijian Zhu, Liang Fang, Youtong Zhu, Jiabei DU, Yidong Zhang, Liu	(54) HIGH-LINEARITY INPUT BUFFER (73) MediaTek Singapore Pte Ltd. (72) HE, Tao WENG, Chan-Hsiang WU, Su-Hao
(51) H02M 7/5387 H02P 3/22 B25J 19/00 H02P 29/024	(31) 201811581411 201811581410	(31) 202017077066 201962937830 P
(11) EP3378152	(32) 24.12.2018 24.12.2018	(32) 22.10.2020 20.11.2019
(21) EP16770255.4	(33) China China	(33) United States of America United States of America
(47) 11.01.2023	(51) H02P 21/04 H02P 27/08	(51) H03K 17/96 B60K 37/06
(87) EP2016072287 26.05.2017	(11) EP3930181	(11) EP3894258
(22) 20.09.2016	(21) EP19915621.7	(21) EP19813766.3
(54) ELECTRIC DRIVE FOR AN INDUSTRIAL ROBOT	(47) 11.01.2023	(47) 11.01.2023
(73) KEBA Industrial Automation GmbH	(87) JP2019005900 27.08.2020	(87) EP2019083033 18.06.2020
(72) MAYR, Franz	(22) 18.02.2019	(22) 29.11.2019
(31) 102015120023	(54) POWER CONTROL METHOD AND POWER CONTROL DEVICE	(54) ROOF CONSOLE FOR A VEHICLE (73) VOLKSWAGEN AKTIENGESELLSCHAFT
(32) 19.11.2015	(73) NISSAN MOTOR CO., LTD.	(72) SEIDL, Nicolas ROSILIUS, Marcel
(33) Germany	(72) SHOUJI, Mitsuhiro KAWAMURA, Hiromichi KITAUCHI, Shun	(31) 102018221710 (32) 13.12.2018 (33) Germany
(51) H02N 15/00 F16C 32/04 H02K 7/09	(51) H02P 25/18 H02P 21/02	(51) H03L 7/199 H03L 7/107
(11) EP3872976	(11) EP3534530	(11) EP3764547
(21) EP19899493.1	(21) EP16919633.4	(21) EP20182883.7
(47) 11.01.2023	(47) 11.01.2023	(47) 11.01.2023
(87) CN2019105084 25.06.2020	(87) JP2016082204 03.05.2018	(22) 29.06.2020
(22) 10.09.2019	(22) 31.10.2016	(54) METHOD FOR MANAGING THE STARTING OF A PHASE LOCKING LOOP, AND CORRESPONDING INTEGRATED CIRCUIT
(54) POWER CONSUMPTION CONTROL DEVICE, MAGNETIC LEVITATION SYSTEM, AND POWER CONSUMPTION CONTROL METHOD	(54) AIR CONDITIONER	(73) STMicroelectronics (Rousset) SAS
(73) Gree Electric Appliances, Inc. of Zhuhai	(73) Mitsubishi Electric Corporation	(72) GAILHARD, Bruno TRUPHEMUS, Laurent
(72) HU, Yusheng GUO, Weilin HE, Yongling HU, Daofu LI, Xue ZHAO, Cong	(72) UEMURA Keisuke YAMAKAWA Takashi IWAZAKI Kenji ARISAWA Koichi	
(31) 201811544091		
(32) 17.12.2018		

EVA, Christophe	(31) 201715782807	(22) 24.06.2021
(31) 1907661	201662407768 P	(54) METHOD FOR SELECTING A COMMUNICATION ROUTE
(32) 09.07.2019	(32) 12.10.2017	(73) Sagemcom Energy & Telecom SAS
(33) France	13.10.2016	(72) BAROIS, Jérôme
(51) H03M 1/08	(33) United States of America	ROTER, Ziv
H03M 1/46	United States of America	BARTHES, Julien
(11) EP3637618	(51) H04B 1/00	(31) 2006938
(21) EP19202069.1	H04B 1/403	(32) 01.07.2020
(47) 11.01.2023	H04W 52/24	(33) France
(22) 08.10.2019	H04W 52/38	(51) H04B 7/04
(54) ANALOG-TO-DIGITAL CONVERTER	H04W 52/34	(11) EP3219022
(73) MEDIATEK INC.	H04W 88/06	(21) EP15858229.6
(72) LIN, Ying-Zu	H04W 52/14	(47) 11.01.2023
LIN, Chin-Yu	(11) EP3764550	(87) CN2015091177
TSAI, Chihhou	(21) EP20184782.9	19.05.2016
TSOU, Shan-Chih	(47) 11.01.2023	(22) 30.09.2015
LU, Chao Hsin	(22) 08.07.2020	(54) ELEVATION PMI REPORTING ON PUCCH
(31) 201916539050	(54) ELECTRONIC DEVICE FOR SUPPORTING DUAL CONNECTIVITY AND POWER CONTROL METHOD THEREFOR	(73) Qualcomm Incorporated
201862744705 P	(73) Samsung Electronics Co., Ltd.	(72) WEI, Chao
(32) 13.08.2019	(72) CHO, Namjun	ZHANG, Yu
12.10.2018	KIM, Jooseung	(31) PCT/CN2014/090680
(33) United States of America	NA, Hyoseok	(32) 10.11.2014
United States of America	(31) 20190082794	(33) World Intellectual Property Office (WIPO)
(51) H03M 1/14	(32) 09.07.2019	(51) H04B 7/0404
G01J 1/46	(33) Korea (Republic)	H04B 7/0456
H03M 1/38	(51) H04B 1/7143	H04B 7/06
H04N 5/335	H04B 1/7156	(11) EP3625893
H03M 1/46	H04L 5/00	(21) EP18723136.0
H03M 1/66	H04W 72/04	(47) 11.01.2023
(11) EP3557767	(11) EP3711172	(87) US2018028131
(21) EP18168287.3	(21) EP18807778.8	22.11.2018
(47) 11.01.2023	(47) 11.01.2023	(2) 18.04.2018
(22) 19.04.2018	(87) US2018058447	(54) PRECODED SOUNDING REFERENCE SIGNAL TRANSMISSION WITH ASYMMETRIC TRANSMIT AND RECEIVE ANTENNAS
(54) LIGHT-TO-DIGITAL CONVERTER ARRANGEMENT AND METHOD FOR LIGHT-TO-DIGITAL CONVERSION	23.05.2019	(73) Qualcomm Incorporated
(73) ams AG	(22) 31.10.2018	(72) FAKOORIAN, Seyed Ali Akbar
(72) Ranganathan, Rohit	(54) LOGICAL CHANNEL HOPPING SEQUENCE DESIGN	ZHANG, Xiaoxia
Adusumalli, Ravi Kumar	(73) QUALCOMM Incorporated	YOO, Taesang
Kuruganti, Dinesh	(72) LIU, Chih-Hao	(31) 201815955408
(51) H03M 1/20	YERRAMALLI, Srinivas	201762507376 P
H03M 1/08	KADOUS, Tamer	(32) 17.04.2018
(11) EP3387751	(31) 201816173945	17.05.2017
(21) EP17702365.2	201762586120 P	(33) United States of America
(47) 11.01.2023	(32) 29.10.2018	United States of America
(87) EP2017052021	14.11.2017	(51) H04B 7/0452
09.08.2018	(33) United States of America	H04B 7/06
(22) 31.01.2017	United States of America	H04B 7/08
(54) A DOUBLE DATA RATE TIME INTERPOLATING QUANTIZER WITH REDUCED KICKBACK NOISE	(51) H04B 3/32	H04L 5/00
(73) Huawei Technologies Co. Ltd.	H04B 3/54	(11) EP3970278
(72) KOLI, Kimmo	H04Q 9/00	(21) EP19778459.8
(51) H03M 13/11	H04L 27/26	(47) 11.01.2023
H03M 13/39	(11) EP3910801	(87) EP2019075419
H03M 13/00	(21) EP20174082.6	19.11.2020
(11) EP3526900	(47) 11.01.2023	(22) 20.09.2019
(21) EP17791828.1	(22) 12.05.2020	(54) APPARATUSES AND METHODS FOR MULTI-USER TRANSMISSIONS
(47) 11.01.2023	(54) DATA TRANSMISSION METHODS AND MOTOR ARRANGEMENTS	(73) Telefonaktiebolaget LM Ericsson (PUBL)
(87) US2017056617	(73) SICK AG	(72) NILSSON, Andreas
19.04.2018	(72) Francescon, Massimo	FAXÉR, Sebastian
(22) 13.10.2017	(51) H04B 3/54	FRENNE, Mattias
(54) MODIFIED MIN-SUM DECODER FOR LDPC CODES	H04L 45/12	(31) 201962847021 P
(73) QUALCOMM Incorporated	H04W 40/02	(32) 13.05.2019
(72) RICHARDSON, Thomas Joseph	(11) EP3934111	(33) United States of America
KUDEKAR, Shrinivas	(21) EP21181350.6	(51) H04B 7/0456
LONCKE, Vincent	(47) 11.01.2023	

H04B 7/0452	(72) XIA, Pengfei	(31) 2257DE2014
H04B 7/06	KWON, Young Hoon	201414489589
H04L 25/02	LIU, Bin	(32) 07.08.2014
(11) EP3567741	(31) 201715814372	18.09.2014
(21) EP17890687.1	201762543765 P	(33) India
(47) 11.01.2023	(32) 15.11.2017	United States of America
(87) CN2017119585	10.08.2017	(51) H04J 14/02
12.07.2018	(33) United States of America	H04B 10/272
(22) 28.12.2017	United States of America	H04Q 11/00
(54) USER SELECTION METHOD AND	(51) H04B 10/516	(11) EP3217683
DEVICE UTILIZED IN SPATIAL	H04B 10/54	(21) EP15857048.1
DIVISION	H04B 10/564	(47) 11.01.2023
(73) ZTE Corporation	(11) EP3939182	(87) CN2015094031
(72) WU, Hao	(21) EP20705860.3	12.05.2016
LI, Jie	(47) 11.01.2023	(22) 06.11.2015
OUYANG, Enshan	(87) US2020014304	(54) METHOD, DEVICE AND SYSTEM FOR
Li, Jun	22.10.2020	WORKING CHANNEL TUNING
XU, Ying	(22) 20.01.2020	(73) ZTE Corporation
(31) 201710010405	(54) POWER-BASED ENCODING OF DATA	(72) ZHANG, Dezhi
(32) 06.01.2017	TO BE TRANSMITTED OVER AN	HUANG, Xingang
(33) China	OPTICAL COMMUNICATION PATH	(31) 201410624175
(51) H04B 7/06	(73) Microsoft Technology Licensing, LLC	(32) 07.11.2014
(11) EP3602821	(72) HASSAN, Amer Aref	(33) China
(21) EP18714111.4	CHEN, Wei-Chen	(51) H04L 1/00
(47) 11.01.2023	(31) 201916388258	H04L 27/26
(87) US2018021520	(32) 18.04.2019	H04B 3/32
27.09.2018	(33) United States of America	(11) EP3605895
(22) 08.03.2018	(51) H04B 17/391	(21) EP18777685.1
(54) CHANNEL RESERVATION	H04B 17/373	(47) 11.01.2023
TECHNIQUES FOR MILLIMETER WAVE	H04L 25/02	(87) CN2018080571
SYSTEMS	G06N 3/04	04.10.2018
(73) QUALCOMM Incorporated	G06N 3/08	(22) 26.03.2018
(72) MALIK, Rahul	(11) EP3836435	(54) PRE-CODING PROCESSING METHOD
KADOUS, Tamer, Adel	(21) EP19859240.4	AND DEVICE, AND STORAGE MEDIUM
(31) 201815914844	(47) 11.01.2023	(73) ZTE Corporation
201762474890 P	(87) CN2019100276	(72) LU, Liuming
(32) 07.03.2018	19.03.2020	(31) 201710193581
22.03.2017	(22) 12.08.2019	(32) 28.03.2017
(33) United States of America	(54) CHANNEL PREDICTION METHOD AND	(33) China
United States of America	RELATED DEVICE	(51) H04L 1/00
(51) H04B 7/06	(73) Huawei Technologies Co., Ltd.	H04W 72/12
H04B 7/0452	(72) HUANGFU, Yourui	H04W 4/70
(11) EP3915201	LI, Rong	(11) EP3685616
(21) EP19702130.6	WANG, Jian	(21) EP17926274.6
(47) 11.01.2023	DAI, Shengchen	(47) 11.01.2023
(87) SE2019050039	WANG, Jun	(87) CN2017102234
30.07.2020	YU, Rongdao	28.03.2019
(22) 22.01.2019	(31) 201811054284	(22) 19.09.2017
(54) METHOD AND DEVICES FOR	(32) 10.09.2018	(54) MODULATION AND CODING SCHEME
COMMUNICATION UTILIZING	(33) China	(MCS) CORRECTION WHEN SHARING
BEAMFORMING	(51) H04J 3/16	RADIO RESOURCES BETWEEN MTC
(73) TELEFONAKTIEBOLAGET LM	H04L 41/0896	AND NON-MTC
ERICSSON (PUBL)	H04L 47/26	(73) Nokia Solutions and Networks Oy
(72) HURD, Magnus	H04L 47/76	(72) FAN, Dongsheng
KARLSSON, Jonas	H04L 47/70	CAI, Yigang
YIN, Zhiming	H04L 43/0894	(51) H04L 1/08
BERGMAN, Svante	(11) EP2983314	H04L 1/18
(51) H04B 7/06	(21) EP15179049.0	H04W 28/02
H04B 7/08	(47) 11.01.2023	H04W 76/15
H04W 72/08	(22) 30.07.2015	(11) EP3634076
(11) EP3646483	(54) ODUFLEX RESIZING SYSTEMS AND	(21) EP17918173.0
(21) EP18845028.2	METHODS	(47) 11.01.2023
(47) 11.01.2023	(73) Ciena Corporation	(87) CN2017093834
(87) CN2018097786	(72) SUREK, Steven Arvo	24.01.2019
14.02.2019	NICHOLS, Jeffery Thomas	(22) 21.07.2017
(22) 31.07.2018	MOYNIHAN, Jeffrey Scott	(54) METHOD AND DEVICE FOR
(54) BEAM FAILURE RECOVERY REQUEST	PRAKASH, Anurag	PROCESSING DATA
(73) Huawei Technologies Co., Ltd.	YOUNG, Alexander Gurd	

(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	GAAL, Peter	SUN, Hao
(72) YANG, Ning	(31) 201916375520	YANG, Fan
(51) H04L 1/08	201862654296 P	(31) 201810300054
H04W 72/04	(32) 04.04.2019	(32) 04.04.2018
(11) EP3751932	06.04.2018	(33) China
(21) EP18936742.8	(33) United States of America	(51) H04L 5/00
(47) 11.01.2023	United States of America	(11) EP3462661
(87) CN2018110143	(51) H04L 1/18	(21) EP18194692.2
16.04.2020	H04L 1/00	(47) 11.01.2023
(22) 12.10.2018	H04L 5/00	(22) 17.09.2018
(54) METHOD AND TERMINAL EQUIPMENT FOR REPEATEDLY TRANSMITTING INFORMATION	(11) EP3744031	(54) RANDOMIZATION OF SHORT TRANSMISSION TIME INTERVAL TRANSMISSION
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(21) EP19704937.2	(73) Nokia Technologies Oy
(72) LIN, Yanan	(47) 11.01.2023	(72) LUNTTILA, Timo
XU, Jing	(87) US2019014915	HUGL, Klaus
SHI, Cong	01.08.2019	KORHONEN, Juha
(51) H04L 1/18	(22) 24.01.2019	(31) 201762564821 P
(11) EP3375116	(54) TRANSMISSION/RECEPTION POINT (TRP) SELECTION FOR RETRANSMISSIONS IN A COORDINATED MULTIPOINT NETWORK	(32) 28.09.2017
(21) EP15795151.8	(73) QUALCOMM Incorporated	(33) United States of America
(47) 11.01.2023	(72) LI, Chong	(51) H04L 5/00
(87) EP2015076561	LI, Junyi	(11) EP3471320
18.05.2017	GUPTA, Piyush	(21) EP18763060.3
(22) 13.11.2015	WANG, Hua	(47) 11.01.2023
(54) TIMEOUT OF A COMMUNICATION RADIO LINK	HAMPEL, Karl Georg	(87) KR2018002646
(73) Sony Group Corporation	(31) 201916255665	13.09.2018
(72) LJUNG, Rickard	201862621963 P	(22) 06.03.2018
(51) H04L 1/18	(32) 23.01.2019	(54) METHOD FOR RECEIVING OR TRANSMITTING DOWNLINK SIGNAL IN WIRELESS COMMUNICATION SYSTEM AND APPARATUS FOR SAME
(11) EP3742648	25.01.2018	(73) LG Electronics Inc.
(21) EP20183364.7	(33) United States of America	(72) YUM, Kunil
(47) 11.01.2023	United States of America	KANG, Jiwon
(22) 16.03.2009	(51) H04L 1/18	PARK, Jonghyun
(54) METHOD FOR EFFECTIVELY TRANSMITTING CONTROL SIGNAL IN WIRELESS COMMUNICATION SYSTEM	H04L 1/16	KIM, Hyungtae
(73) Optis Cellular Technology, LLC	(11) EP2828998	(31) 201762519877 P
(72) AHN, Joon Kui	(21) EP13714148.7	201762490602 P
LEE, Daewon	(47) 11.01.2023	201762467248 P
YUN, Young Woo	(87) US2013032775	(32) 15.06.2017
KIM, Ki Jun	26.09.2013	27.04.2017
(31) 20090021715	(22) 18.03.2013	06.03.2017
47107 P	(54) SYSTEMS AND METHODS FOR SIGNALING AND DETERMINING TRANSMISSION TIME INTERVAL BUNDLING PARAMETERS	(33) United States of America
36985 P	(73) Qualcomm Incorporated	United States of America
(32) 13.03.2009	(72) CHEN, Wanshi	United States of America
23.04.2008	XU, Hao	(51) H04L 5/00
16.03.2008	GAAL, Peter	H04L 1/00
(33) Korea (Republic)	(31) 201313804307	H04L 5/14
United States of America	201261614916 P	(11) EP3704827
United States of America	(32) 14.03.2013	(21) EP18804210.5
(51) H04L 1/18	23.03.2012	(47) 11.01.2023
(11) EP3776967	(33) United States of America	(87) US2018058717
(21) EP19718992.1	United States of America	09.05.2019
(47) 11.01.2023	(51) H04L 1/18	(22) 01.11.2018
(87) US2019026046	H04L 1/16	(54) REFERENCE SIGNAL MULTIPLEXING IN SHORTENED TRANSMISSION TIME INTERVALS
10.10.2019	(11) EP3748886	(73) QUALCOMM Incorporated
(22) 05.04.2019	(21) EP19781125.0	(72) GUPTA, Abhinav
(54) SEMI-STATIC HARQ-ACK CODEBOOK WITH MULTIPLE PDSCH TRANSMISSIONS PER SLOT	(47) 11.01.2023	HOSSEINI, Seyedkianoush
(73) QUALCOMM Incorporated	(87) CN2019079688	FARAJIDANA, Amir
(72) YANG, Yang	10.10.2019	(31) 201816176397
ANG, Peter Pui Lok	(22) 26.03.2019	201762581641 P
CHEN, Wanshi	(54) COMMUNICATION METHODS AND APPARATUSES FOR HARQ-ACK TRANSMISSION AND RECEPTION	(32) 31.10.2018
XU, Huilin	(73) HUAWEI TECHNOLOGIES CO., LTD.	03.11.2017
LUO, Tao	(72) XUE, Lixia	(33) United States of America
		United States of America
		(51) H04L 5/00

H04L 1/00	LAMPKINS, Joshua, D.	(73) Tata Consultancy Services Limited
H04W 72/12	(31) 201762541013 P	(72) TUPSAMUDRE, HARSHAL
(11) EP3809623	(32) 03.08.2017	LODHA, SACHIN PREMSUKH
(21) EP20213888.9	(33) United States of America	(31) 202021040849
(47) 11.01.2023	(51) H04L 9/32	(32) 21.09.2020
(22) 25.07.2017	H04L 9/40	(33) India
(54) TECHNIQUES FOR ALLOCATING	H04W 12/68	(51) H04L 9/40
RESOURCES IN LOW LATENCY	(11) EP3815297	G06F 21/56
WIRELESS COMMUNICATIONS	(21) EP19737412.7	G06F 21/57
(73) QUALCOMM Incorporated	(47) 11.01.2023	G06F 21/55
(72) HOSSEINI, Seyedkianoush	(87) US2019038759	H04W 12/122
CHEN, Wanshi	02.01.2020	H04W 12/128
GAAL, Peter	(22) 24.06.2019	H04L 67/12
SUN, Jing	(54) AUTHENTICATION THROUGH	(11) EP3649569
PATEL, Shimman Arvind	SECURE SHARING OF DIGITAL	(21) EP18885608.2
(31) 201715612698	SECRETS PREVIOUSLY ESTABLISHED	(47) 11.01.2023
201662396070 P	BETWEEN DEVICES	(87) KR2018014922
(32) 02.06.2017	(73) Dish Technologies LLC	13.06.2019
16.09.2016	(72) JAIN, Vikal Kumar	(22) 29.11.2018
(33) United States of America	(31) 201816021217	(54) SERVER AND METHOD FOR
United States of America	(32) 28.06.2018	DEFENDING MALICIOUS CODE USING
(51) H04L 5/00	(33) United States of America	SAME
H04L 25/03	(51) H04L 9/40	(73) Samsung Electronics Co., Ltd.
(11) EP3352405	(11) EP3794793	(72) CHO, Jungil
(21) EP16846920.3	(21) EP19729261.8	KIM, Iljoo
(47) 11.01.2023	(47) 11.01.2023	KIM, Hyunwoo
(87) KR2016010416	(87) EP2019064718	CHOI, Daesung
23.03.2017	16.01.2020	(31) 20170167220
(22) 19.09.2016	(22) 05.06.2019	(32) 07.12.2017
(54) METHOD AND APPARATUS FOR	(54) MANAGING THIRD PARTY URL	(33) Korea (Republic)
TRANSCIEIVING MESSAGES FROM	DISTRIBUTION	(51) H04L 9/40
V2X TERMINAL IN WIRELESS	(73) BlackBerry Limited	H04L 9/12
COMMUNICATION SYSTEM	(72) BOULTON, Adam John	G06F 11/07
(73) LG Electronics Inc.	(31) 201816030420	H04L 67/1097
(72) CHAE, Hyukjin	(32) 09.07.2018	H04L 43/0823
SEO, Hanbyul	(33) United States of America	H04L 9/32
(31) 201662341043 P	(51) H04L 9/40	H04L 9/00
201662339935 P	(11) EP3942775	G06F 21/60
201662335673 P	(21) EP21735056.0	(11) EP3605947
201562251092 P	(47) 11.01.2023	(21) EP18777404.7
201562218561 P	(87) US2021035051	(47) 11.01.2023
(32) 24.05.2016	09.12.2021	(87) CN2018080574
22.05.2016	(22) 30.05.2021	04.10.2018
12.05.2016	(54) APPLICATION INTEGRATION USING	(22) 26.03.2018
04.11.2015	MULTIPLE USER IDENTITIES	(54) DISTRIBUTED SYSTEM, MESSAGE
14.09.2015	(73) Citrix Systems, Inc.	PROCESSING METHOD, NODE,
(33) United States of America	(72) MONRO, Robert	CLIENT, AND STORAGE MEDIUM
United States of America	HUANG, Feng	(73) Tencent Technology (Shenzhen)
United States of America	SIDERIS, Aleksis	Company Limited
United States of America	PASKULOV, Nikolay	(72) GUO, Rui
United States of America	FEIJOO, Ricardo Fernando	LI, Maoai
(51) H04L 9/08	(31) 202017113874	ZHAO, Qi
G06F 21/60	202063078371 P	ZHANG, Jianjun
G01C 21/36	202063033051 P	TU, Haitao
(11) EP3662615	(32) 07.12.2020	WANG, Zongyou
(21) EP18841543.4	15.09.2020	LIANG, Jun
(47) 11.01.2023	01.06.2020	ZHU, Dawei
(87) US2018043850	(33) United States of America	CHEN, Lisheng
07.02.2019	United States of America	LIU, Binhua
(22) 26.07.2018	United States of America	(31) 201710203499
(54) PRIVACY-PRESERVING MULTI-	(51) H04L 9/40	(32) 30.03.2017
CLIENT AND CLOUD COMPUTATION	G06F 21/55	(33) China
WITH APPLICATION TO SECURE	(11) EP3972192	(51) H04L 12/28
NAVIGATION	(21) EP21191593.9	H04N 21/43
(73) HRL Laboratories, LLC	(47) 11.01.2023	H04N 21/436
(72) CHO, Chongwon	(22) 17.08.2021	H04N 21/442
EL DEFRAWY, Karim	(54) METHOD AND SYSTEM FOR LAYERED	H04N 21/45
KIM, Hyun, J.	DETECTION OF PHISHING WEBSITES	(11) EP4016937

(21) EP21216202.8	(21) EP17700514.7	(51) H04L 43/0852
(47) 11.01.2023	(47) 11.01.2023	H04L 43/106
(22) 21.12.2021	(87) EP2017050617	H04L 43/16
(54) METHOD FOR SYNCHRONISING AND SYSTEM IMPLEMENTING SAID METHOD	19.07.2018	H04W 24/08
(73) SAGEMCOM BROADBAND SAS	(22) 13.01.2017	H04W 56/00
(72) BERGER, Jérôme	(54) AN OPTIMIZED ARCHITECTURE FOR A SIGNAL DECODER	(11) EP3826354
(31) 2013830	(73) Huawei Technologies Co., Ltd.	(21) EP18929061.2
(32) 21.12.2020	(72) BEN-ARIE, Yaron	(47) 11.01.2023
(33) France	TSODIK, Genadiy	(87) CN2018099263
(51) H04L 12/28	SHILO, Shimon	13.02.2020
H04N 21/43	EZRI, Doron	(22) 07.08.2018
H04N 21/436	REDLICH, Oded	(54) INFORMATION TRANSMISSION METHOD AND APPARATUS, AND COMMUNICATION DEVICE
H04N 21/45	(51) H04L 25/49	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
H04N 21/442	(11) EP3820096	(72) LIU, Jianhua
(11) EP4016938	(21) EP20186238.0	(51) H04L 45/00
(21) EP21216220.0	(47) 11.01.2023	H04L 45/302
(47) 11.01.2023	(22) 16.07.2020	(11) EP3632064
(22) 21.12.2021	(54) DATA TRANSMISSION DEVICES WITH EFFICIENT TERNARY-BASED DATA TRANSMISSION CAPABILITY AND METHODS OF OPERATING SAME	(21) EP17729211.7
(54) METHOD FOR SYNCHRONISING AND SYSTEM IMPLEMENTING SAID METHOD	(73) Samsung Electronics Co., Ltd.	(47) 11.01.2023
(73) SAGEMCOM BROADBAND SAS	(72) KIM, Young-Hwa	(87) SE2017050560
(72) BERGER, Jérôme	(31) 20190140135	29.11.2018
(31) 2013835	(32) 05.11.2019	(22) 24.05.2017
(32) 21.12.2020	(33) Korea (Republic)	(54) ROUTING TABLE SELECTION IN A POLICY BASED ROUTING SYSTEM
(33) France	(51) H04L 41/082	(73) Telefonaktiebolaget LM Ericsson (publ)
(51) H04L 12/28	G06F 8/65	(72) FRANZEN, Anders
H05B 47/10	(11) EP3871373	HAMMAM, Tarik
H05B 47/105	(21) EP19804764.9	(51) H04L 45/00
H05B 47/11	(47) 11.01.2023	H04L 47/30
(11) EP3884625	(87) FR2019052356	H04L 47/34
(21) EP19801897.0	30.04.2020	H04W 28/08
(47) 11.01.2023	(22) 04.10.2019	H04W 80/02
(87) EP2019081583	(54) METHOD FOR MANAGING EQUIPMENT IN ORDER TO UPDATE A FIRMWARE	H04W 84/12
28.05.2020	(73) ORANGE	H04W 28/12
(22) 18.11.2019	(72) GLOANEC, Simon	(11) EP3372008
(54) SELECTING A DESTINATION FOR A SENSOR SIGNAL IN DEPENDENCE ON AN ACTIVE LIGHT SETTING	MARCHAND, Hervé	(21) EP16861699.3
(73) Signify Holding B.V.	(31) 1859912	(47) 11.01.2023
(72) VAN DE SLUIS, Bartel, Marinus	(32) 26.10.2018	(87) IB2016056490
BERGMAN, Anthonie, Hendrik	(33) France	11.05.2017
DEKKER, Tim	(51) H04L 41/16	(22) 27.10.2016
ENGELLEN, Dirk, Valentinus, René	H04L 41/14	(54) FLOW CONTROL FEEDBACK FROM USER EQUIPMENT RECEIVING A SPLIT BEARER
VAN GHELUWE, Jochen, Renaat	H04L 41/0896	(73) Nokia Technologies Oy
MEERBEEK, Berent, Willem	H04L 41/147	(72) KOSKINEN, Henri M.
(31) 18207130	H04L 41/5009	JANCZYK, Georg-Raffael
(32) 20.11.2018	H04L 41/50	(31) 201562251932 P
(33) European Patent Office (EPO)	H04L 43/0876	(32) 06.11.2015
(51) H04L 12/423	H04L 45/00	(33) United States of America
(11) EP4046339	H04L 45/02	(51) H04L 45/30
(21) EP20792648.6	H04L 47/127	H04L 67/63
(47) 11.01.2023	H04L 47/70	(11) EP2641186
(87) EP2020079201	(11) EP3881494	(21) EP11841062.0
22.04.2021	(21) EP18807228.4	(47) 11.01.2023
(22) 16.10.2020	(47) 11.01.2023	(87) US2011061067
(54) SAFE TEST ARRANGEMENT	(87) EP2018080960	24.05.2012
(73) Omicron electronics GmbH	22.05.2020	(22) 16.11.2011
(72) NUSSBAUMER, Roland	(22) 12.11.2018	(54) FAST CONTENT-BASED ROUTING
BLOCHER, Thomas	(54) TECHNIQUE FOR SELECTING A TRANSPORT CONFIGURATION FOR A DATA NETWORK	(73) TIBCO Software Inc.
KUKUK, Matthias	(73) Telefonaktiebolaget LM Ericsson (publ)	(72) LESHCHINER, Dan
(31) 508982019	(72) BÁDER, Attila	MAHURKAR, Balbhim
(32) 18.10.2019	KOVÁCS, László	SELPH, Russell
(33) Austria	MAGYAR, Gábor	(31) 414327 P
(51) H04L 25/03		201161538645 P
(11) EP3516835		(32) 16.11.2010

23.09.2011	United States of America	H04N 21/854
(33) United States of America	(51) H04L 49/55	(11) EP2761880
United States of America	H04L 49/65	(21) EP12834874.5
(51) H04L 45/50	H04L 69/40	(47) 11.01.2023
H04L 45/16	(11) EP3570507	(87) KR2012007828
(11) EP3873041	(21) EP19171708.1	04.04.2013
(21) EP21161645.3	(47) 11.01.2023	(22) 27.09.2012
(47) 11.01.2023	(22) 29.04.2019	(54) METHOD FOR TRANSMITTING MEDIA
(22) 30.11.2016	(54) SWITCH CONFIGURATION	DATA
(54) MULTICAST (P2MP) SUPPORT FOR	SYNCHRONIZATION	(73) Samsung Electronics Co., Ltd.
PATH COMPUTATION ELEMENT	(73) Hewlett Packard Enterprise Development	(72) RHYU, Sung-Ryeul
CENTRAL CONTROLLER (PCECC)	LP	PARK, Kyung-Mo
(73) Huawei Technologies Co., Ltd.	(72) WILD, Christopher	SONG, Jae-Yeon
(72) PALLE, Udayasree	ZAYATS, Michael	HWANG, Sung-Oh
DHODY, Dhruv	IYER, Ganesh M.	(31) 20110104882
(31) 201641014323	SHAH, Dhruv	20110099426
(32) 25.04.2016	(31) 201815966887	(32) 13.10.2011
(33) India	(32) 30.04.2018	29.09.2011
(51) H04L 47/24	(33) United States of America	(33) Korea (Republic)
H04L 47/2416	(51) H04L 65/10	Korea (Republic)
H04L 12/40	(11) EP3799387	(51) H04L 67/10
(11) EP3560153	(21) EP20198361.6	G06F 9/50
(21) EP17797621.4	(47) 11.01.2023	H04L 43/045
(47) 11.01.2023	(22) 25.09.2020	H04L 43/08
(87) EP2017078734	(54) METHOD AND SYSTEM	(11) EP3934206
28.06.2018	FOR HANDLING MCDATA	(21) EP20197006.8
(22) 09.11.2017	COMMUNICATIONS USING PRE-	(47) 11.01.2023
(54) METHOD FOR OPERATING A DATA	ESTABLISHED SESSION	(22) 18.09.2020
PROCESSING SYSTEM, AND DATA	(73) Samsung Electronics Co., Ltd.	(54) SCALABLE CONTROL PLANE FOR
PROCESSING SYSTEM	(72) Shah, Sapan Pramodkumar	TELEMETRY DATA COLLECTION
(73) Robert Bosch GmbH	Pattan, Basavaraj Jayawant	WITHIN A DISTRIBUTED COMPUTING
(72) ZYMERI, Gafur	Gupta, Nishant	SYSTEM
POEHL, Michael	Gundur, Siva Prasad	(73) Juniper Networks, Inc.
DOERING, Michael Ernst	Sangameshwara, Vijay	(72) PATKI, Neeren Shripad
WAGNER, Marco Andreas	(31) 201941039029	CHITALIA, Harshit Naresh
SCHNEIDER, Klaus	201941039029	GUPTA, Moitrayee
(31) 102016225755	(32) 08.04.2020	(31) 202016916798
(32) 21.12.2016	26.09.2019	(32) 30.06.2020
(33) Germany	(33) India	(33) United States of America
(51) H04L 47/2483	India	(51) H04L 67/1095
H04L 67/1014	(51) H04L 67/00	H04L 67/12
H04L 43/028	H04L 69/28	H04L 67/02
H04L 45/302	H04L 41/0806	G01C 21/26
H04L 9/40	H04L 41/084	G01S 5/00
H04L 43/20	H04W 4/021	G06F 21/10
(11) EP3662644	H04L 67/52	G01S 19/39
(21) EP18807148.4	H04W 4/80	H04W 4/80
(47) 11.01.2023	H04W 4/02	(11) EP3584714
(87) US2018057184	(11) EP3619928	(21) EP19183628.7
02.05.2019	(21) EP18717483.4	(47) 11.01.2023
(22) 23.10.2018	(47) 11.01.2023	(22) 19.03.2015
(54) SERVICE OPERATION CHAINING	(87) US2018024106	(54) INFORMATION PROVIDING SYSTEM
METHODS AND COMPUTER	08.11.2018	AND METHOD THEREOF
PROGRAMS	(22) 23.03.2018	(73) LG ELECTRONICS INC.
(73) Nicira, Inc.	(54) LOW ENERGY BEACON	(72) CHOI, Sungha
(72) BOUTROS, Sami	CONFIGURATION BY TAPPING	RYOO, Kgiwung
MONCLUS, Pere	BEACON WITH ANOTHER DEVICE	(31) 20140061717
KIPPEN, Philip	(73) Qualcomm Incorporated	(32) 22.05.2014
RAJAN, Dharma	(72) ANGELINI, Donato	(33) Korea (Republic)
NARANG, Yashika	CHAPELOT, Pascal	(51) H04L 67/141
(31) 201815881670	PYNADATH, Samson	H04L 67/51
201815881674	SINGH, Jatinderjit	H04L 67/561
201762578507 P	(31) 201715583671	H04L 67/568
(32) 26.01.2018	(32) 01.05.2017	H04L 67/63
26.01.2018	(33) United States of America	H04L 45/302
29.10.2017	(51) H04L 67/06	H04L 9/40
(33) United States of America	H04H 20/95	H04L 45/00
United States of America	H04N 21/236	H04L 45/02

H04L 45/745	201662339557 P	HWANG, Taedon
H04L 45/748	(32) 18.05.2017	(31) 20200035101
(11) EP3542518	20.05.2016	(32) 23.03.2020
(21) EP17749791.4	(33) United States of America	(33) Korea (Republic)
(47) 11.01.2023	United States of America	(51) H04M 1/02
(87) US2017044296	(51) H04L 69/40	H04M 1/72454
24.05.2018	H04W 4/50	G06F 1/16
(22) 28.07.2017	H04L 67/51	G06F 3/04883
(54) ENABLING CONNECTIONS IN A	H04L 67/56	(11) EP3896946
CONTENT CENTRIC NETWORK	H04L 67/567	(21) EP20748031.0
(73) Cisco Technology, Inc.	(11) EP3836515	(47) 11.01.2023
(72) FOX, Kevin, C.	(21) EP19849892.5	(87) CN2020072941
(31) 201615357849	(47) 11.01.2023	06.08.2020
(32) 21.11.2016	(87) CN2019100418	(22) 19.01.2020
(33) United States of America	20.02.2020	(54) DISPLAY METHOD FOR ELECTRONIC
(51) H04L 69/04	(22) 13.08.2019	DEVICE HAVING FLEXIBLE SCREEN
(11) EP3905627	(54) COMMUNICATION METHOD	AND ELECTRONIC DEVICE
(21) EP19927399.6	AND COMMUNICATION DEVICE	(73) HUAWEI TECHNOLOGIES CO., LTD.
(47) 11.01.2023	FOR REDUCING COMPLEXITY	(72) HU, Kai
(87) CN2019085340	IN PROCESSING OF SERVICE	ZHU, Guangze
05.11.2020	INSTANCES.	HAN, Ping
(22) 30.04.2019	(73) HUAWEI TECHNOLOGIES CO., LTD.	TIAN, Huajian
(54) WIRELESS COMMUNICATION	(72) ZONG, Zaifeng	(31) 201910108021
METHOD AND APPARATUS	ZHU, Fenqin	(32) 02.02.2019
(73) GUANGDONG OPPO MOBILE	(31) 201910523684	(33) China
TELECOMMUNICATIONS CORP., LTD.	201810918830	(51) H04M 3/30
(72) LU, Qianxi	(32) 17.06.2019	H04L 12/64
(51) H04L 69/04	13.08.2018	(11) EP3879800
H04L 1/00	(33) China	(21) EP20162086.1
H04W 28/06	China	(47) 11.01.2023
H04L 1/18	(51) H04M 1/02	(22) 10.03.2020
(11) EP3573366	G06F 1/16	(54) METHOD OF GENERATING AND
(21) EP18767398.3	G06F 13/10	HANDLING OF DSL-CONNECTION
(47) 11.01.2023	(11) EP3295655	PROFILES, THEREBY PROVIDING AN
(87) CN2018078796	(21) EP16725683.3	ADAPTATION FUNCTIONALITY OF A
20.09.2018	(47) 11.01.2023	DSL-CONNECTION
(22) 13.03.2018	(87) US2016031967	(73) Deutsche Telekom AG
(54) DATA TRANSMISSION METHOD AND	17.11.2016	(72) QUADE, Michael
RELATED DEVICE	(22) 12.05.2016	(51) H04M 3/42
(73) Huawei Technologies Co., Ltd.	(54) MANAGING DEVICE FUNCTIONS	H04M 3/48
(72) QIAO, Yunfei	BASED ON PHYSICAL INTERACTION	H04M 7/00
ZHANG, Chaolong	WITH DEVICE MODULES	(11) EP3688974
WANG, Jian	(73) Google LLC	(21) EP18783072.4
DAI, Shengchen	(72) LIU, Eric	(47) 11.01.2023
LI, Rong	MATSUOKA, Yoshimichi	(87) FR2018052332
(31) 201710152691	CHUA, Jason	04.04.2019
(32) 15.03.2017	BRUNE, Kevin	(22) 24.09.2018
(33) China	(31) 201514709982	(54) METHOD FOR MANAGING A FAILURE
(51) H04L 69/18	(32) 12.05.2015	TO ESTABLISH A COMMUNICATION
H04L 69/40	(33) United States of America	BETWEEN A FIRST AND A SECOND
H04L 69/165	(51) H04M 1/02	TERMINAL
H04L 69/326	G06F 1/16	(73) ORANGE
H04L 69/321	H04N 5/247	(72) SUART, Christophe
H04L 69/166	H04N 5/262	GESTRAUD, Yann
H04L 69/328	H04N 5/225	(31) 1759044
H04L 43/0811	H04N 5/232	(32) 29.09.2017
(11) EP3459219	(11) EP3886408	(33) France
(21) EP17726815.8	(21) EP20202096.2	(51) H04M 3/428
(47) 11.01.2023	(47) 11.01.2023	H04M 1/82
(87) US2017033528	(22) 15.10.2020	H04M 1/725
23.11.2017	(54) DISPLAY APPARATUS AND CONTROL	H04W 4/16
(22) 19.05.2017	METHOD THEREOF	(11) EP3785426
(54) ADAPTIVE SESSION RELIABILITY	(73) Samsung Electronics Co., Ltd.	(21) EP18743295.0
OVER MULTIPLE TRANSPORTS	(72) KANG, Kunsok	(47) 11.01.2023
(73) Citrix Systems, Inc.	SOH, Byungseok	(87) US2018040065
(72) MOMCHILOV, Georgy	YOON, Seungil	02.01.2020
TREDER, Terry	YOON, Eungsik	(22) 28.06.2018
(31) 201715598912	JIN, Suhwan	

(54) METHODS AND APPARATUS FOR MANAGING HELD CALLS	(72) INOE, Masanobu KOBAYASHI, Yuki	(73) Christie Digital Systems USA, Inc.
(73) Google LLC	(31) 2017189358	(72) Perkins, Michael
(72) XIA, Cassandra COBO RUS, Luis Carlos	(32) 29.09.2017	Kiers, David
(51) H04N 1/00	(33) Japan	(31) 201916670581
(11) EP3264255	(51) H04N 1/387	(32) 31.10.2019
(21) EP17001073.0	H04B 10/116	(33) United States of America
(47) 11.01.2023	H04N 19/467	(51) H04N 13/30
(22) 23.06.2017	H04N 21/234	H04N 13/305
(54) INFORMATION PROCESSING APPARATUS, INFORMATION PROCESSING METHOD, AND PROGRAM	H04N 21/8358	H04N 13/398
(73) CANON KABUSHIKI KAISHA	(11) EP3528486	G02B 30/28
(72) SUZUKI, Tomohiro	(21) EP16918783.8	(11) EP2736260
SUMI, Naoki	(47) 11.01.2023	(21) EP13194449.8
UMEDA, Kiyoshi	(87) JP2016080287	(47) 11.01.2023
SAKAI, Hiroyuki	19.04.2018	(22) 26.11.2013
OMAGARI, Yuki	(22) 12.10.2016	(54) 3D display device and driving method thereof
(31) 2016132015	(54) SIGNAL ADJUSTMENT PROGRAM, SIGNAL ADJUSTMENT APPARATUS, AND SIGNAL ADJUSTMENT METHOD	(73) BOE Technology Group Co., Ltd.
(32) 01.07.2016	(73) Fujitsu Limited	(72) Wu, Yanbing
(33) Japan	(72) KURAKI, Kensuke	(31) 201210493192
(51) H04N 1/00	TANAKA, Ryuta	(32) 27.11.2012
(11) EP3503519	(51) H04N 1/60	(33) China
(21) EP18199388.2	H04N 1/62	(51) H04N 19/105
(47) 11.01.2023	H04N 1/54	H04N 19/119
(22) 09.10.2018	(11) EP3430796	H04N 19/136
(54) ELECTRONIC APPARATUS, INFORMATION PROCESSING SYSTEM AND METHOD OF PROCESSING INFORMATION	(21) EP17714598.4	H04N 19/176
(73) Ricoh Company, Ltd.	(47) 11.01.2023	H04N 19/196
(72) HAN, Xiaofeng	(87) US2017022133	H04N 19/44
(31) 2018148899	21.09.2017	H04N 19/46
2017245084	(22) 13.03.2017	H04N 19/593
(32) 07.08.2018	(54) INK JET PRINT METHOD WITH INTEGRATED SPOT COLOR AND PROCESS COLOR	(11) EP3567855
21.12.2017	(73) Avery Dennison Corporation	(21) EP19184146.9
(33) Japan	(72) CHANG, Ying	(47) 11.01.2023
Japan	AGASHE, Nikhil R.	(22) 16.03.2010
(51) H04N 1/00	PECK, John D.	(54) IMAGE PREDICTIVE ENCODING DEVICE, IMAGE PREDICTIVE ENCODING METHOD, IMAGE PREDICTIVE ENCODING PROGRAM, IMAGE PREDICTIVE DECODING DEVICE, IMAGE PREDICTIVE DECODING METHOD, AND IMAGE PREDICTIVE DECODING PROGRAM
B41J 2/21	(31) 201662309673 P	(73) NTT DOCOMO, INC.
B41J 2/165	(32) 17.03.2016	(72) SUZUKI, Yoshinori
B41J 13/22	(33) United States of America	BOON, Choong Seng
B41J 29/393	(51) H04N 5/645	(31) 2009069975
(11) EP3659813	H04N 5/655	(32) 23.03.2009
(21) EP18208751.0	G06F 1/16	(33) Japan
(47) 11.01.2023	G09F 9/30	(51) H04N 19/52
(22) 28.11.2018	G02F 1/1333	H04N 19/513
(54) VARIABLE PRINT CONTROL BARS	(11) EP3657777	(11) EP3849192
(73) Heidelberg Druckmaschinen AG	(21) EP18835880.8	(21) EP21160519.1
(72) Tita, Ralf	(47) 11.01.2023	(47) 11.01.2023
Stegmaier, Daniel	(87) KR2018007792	(22) 23.11.2011
Mayer, Martin	24.01.2019	(54) METHOD FOR DERIVING A MOTION VECTOR FOR VIDEO DECODING AND VIDEO ENCODING
Junghans, Gerd	(22) 10.07.2018	(73) LG Electronics, Inc.
(51) H04N 1/04	(54) DISPLAY DEVICE	(72) Choi, Young Hee
G06T 1/00	(73) LG Electronics Inc.	Jeon, Byeong Moon
H04N 1/00	(72) KANG, Seunggyu	Jeon, Yong Joon
H04N 1/10	CHOI, Woohyuk	Kim, Jung Sun
(11) EP3672216	(31) 20170092279	Lim, Jae Hyun
(21) EP18862443.1	(32) 20.07.2017	Park, Joon Young
(47) 11.01.2023	(33) Korea (Republic)	Park, Seung Wook
(87) JP2018026975	(51) H04N 9/31	(31) 201161502829 P
04.04.2019	(11) EP3817377	201161502833 P
(22) 18.07.2018	(21) EP20204421.0	201161501772 P
(54) PLACEMENT DETECTION SYSTEM	(47) 11.01.2023	(32) 29.06.2011
(73) Panasonic Intellectual Property Management Co., Ltd.	(22) 28.10.2020	
	(54) DEVICE, SYSTEM AND METHOD FOR MODULATING LIGHT USING A PHASE LIGHT MODULATOR AND A SPATIAL LIGHT MODULATOR	

29.06.2011	(54) RENDERER DEVICE, RENDERER	(54) METHODS AND INTERFACES FOR
28.06.2011	PLAYBACK SYSTEM AND	HOME MEDIA CONTROL
(33) United States of America	INFORMATION UPDATING METHOD	(73) Apple Inc.
United States of America	(73) Panasonic Intellectual Property	(72) COFFMAN, Patrick L.
United States of America	Management Co., Ltd.	GRAHAM, David Chance
(51) H04N 19/593	(72) OKAMOTO, Yuuki	(31) PA201870060
H04N 19/59	(31) 2018069516	PA201770410
(11) EP3827591	(32) 30.03.2018	PA201770409
(21) EP20841841.8	(33) Japan	PA201770408
(47) 11.01.2023	(51) H04R 3/12	PA201770406
(87) CN2020117911	G06F 13/38	PA201770404
08.04.2021	(11) EP3657817	PA201770403
(22) 25.09.2020	(21) EP18835505.1	PA201770402
(54) VIDEO CODING WITH MATRIX-BASED	(47) 11.01.2023	PA201770401
INTRA PREDICTION	(87) CN2018088288	PA201770392
(73) GUANGDONG OPPO MOBILE	24.01.2019	201862622122 P
TELECOMMUNICATIONS CORP., LTD.	(22) 24.05.2018	201762514932 P
(72) HUO, Junyan	(54) SIGNAL TRANSMISSION CIRCUIT	201762507208 P
(31) 201962911166 P	(73) ZTE Corporation	201762507202 P
(32) 04.10.2019	(72) HOU, Fangxi	(32) 29.01.2018
(33) United States of America	(31) 201710601544	29.05.2017
(51) H04N 21/2343	(32) 21.07.2017	29.05.2017
H04N 21/2365	(33) China	29.05.2017
H04N 21/2387	(51) H04R 25/00	29.05.2017
H04N 21/438	(11) EP3429232	29.05.2017
H04N 21/44	(21) EP18187832.3	29.05.2017
H04N 21/6405	(47) 11.01.2023	29.05.2017
H04N 21/6408	(22) 12.06.2007	29.05.2017
H04N 21/845	(54) ONLINE ANTI-FEEDBACK SYSTEM	29.05.2017
(11) EP3890329	FOR A HEARING AID	25.01.2018
(21) EP20167111.2	(73) Oticon A/S	04.06.2017
(47) 11.01.2023	(72) Boldt, Jesper Bünsow	16.05.2017
(22) 31.03.2020	Elmedyb, Thomas Bo	16.05.2017
(54) VIDEO ENCODING METHOD AND	(51) H04R 25/00	(33) Denmark
APPARATUS	(11) EP3582514	Denmark
(73) Nokia Solutions and Networks Oy	(21) EP19179956.8	Denmark
(72) Dobbelaere, Philippe	(47) 11.01.2023	Denmark
(51) H04N 21/24	(22) 13.06.2019	Denmark
H04N 21/262	(54) SOUND PROCESSING APPARATUS	Denmark
H04N 21/84	(73) Oticon A/S	Denmark
H04N 19/30	(72) LUNNER, Thomas	Denmark
H04N 19/436	GRAVERSEN, Carina	Denmark
(11) EP3780632	ALICKOVIC, Emina	Denmark
(21) EP20184248.1	MENDOZA LARA, Carlos Francisco	United States of America
(47) 11.01.2023	SEGAR, Andrew	United States of America
(22) 06.07.2020	(31) 18184385	United States of America
(54) SYSTEM FOR DISTRIBUTING	18177765	United States of America
AUDIOVISUAL CONTENT	(32) 19.07.2018	(51) H04W 4/00
(73) Quortex	14.06.2018	H04M 1/72403
(72) VIERON, Jérôme	(33) European Patent Office (EPO)	H04W 88/06
TROLEZ, Thierry	European Patent Office (EPO)	H04W 76/15
BAILLAVOINE, Marc	(51) H04S 7/00	H04B 7/022
VILLERET, Julien	G06F 3/16	(11) EP3840526
(31) 1907690	H04L 12/28	(21) EP19857999.7
(32) 09.07.2019	H04N 21/41	(47) 11.01.2023
(33) France	H04N 21/414	(87) CN2019102883
(51) H04N 21/436	H04N 21/422	12.03.2020
G09G 5/00	H04N 21/431	(22) 27.08.2019
H04N 21/442	H04N 21/436	(54) SERVICE IDENTIFIER DISPLAY
H04N 21/426	H04N 21/439	CONTROL METHOD AND APPARATUS
H04N 21/422	H04N 21/442	(73) GUANGDONG OPPO MOBILE
(11) EP3780635	H04N 21/482	TELECOMMUNICATIONS CORP., LTD.
(21) EP19776749.4	H04N 21/485	(72) TANG, Kai
(47) 11.01.2023	H04N 21/81	XIA, Yang
(87) JP2019012674	(11) EP3675508	ZHANG, Tao
03.10.2019	(21) EP20158824.1	(31) 201811027733
(22) 26.03.2019	(47) 11.01.2023	(32) 04.09.2018
	(22) 16.05.2018	(33) China

(51) H04W 4/00 H04W 72/12 H04W 84/18 H04W 88/06 H04W 84/00	(31) 102013216962 (32) 26.08.2013 (33) Germany	(11) EP3572293 (21) EP19170734.8 (47) 11.01.2023 (22) 24.04.2019
(11) EP3484189 (21) EP17201345.0 (47) 11.01.2023 (22) 13.11.2017	(51) H04W 4/021 H04W 4/90 H04N 1/00 H04N 5/232 H04N 7/18	(54) METHOD FOR ASSISTING DRIVING OF AT LEAST ONE MOTOR VEHICLE AND ASSISTANCE SYSTEM (73) VOLKSWAGEN AKTIENGESELLSCHAFT
(54) ROAD-SIDE NETWORK NODE AND METHOD TO OPERATE THE ROAD-SIDE NETWORK NODE (73) Robert Bosch GmbH (72) Eckert, Kurt Brahmi, Nadia	(11) EP3595341 (21) EP19195313.2 (47) 11.01.2023 (22) 30.09.2011 (54) METHOD, SERVER, SYSTEM AND COMPUTER PROGRAM FOR DETERMINING A LOCATION OF A MOBILE COMMUNICATION TERMINAL	(72) Max, Stephan Günzel, Thorben Klomp, Sven (31) 102018208105 (32) 23.05.2018 (33) Germany
(51) H04W 4/02 (11) EP3937517 (21) EP21193646.3 (47) 11.01.2023 (22) 03.06.2019	(73) Thinkwaresystems Corp (72) JO, Yongrae YOO, Junghwa YOO, Jihyun	(51) H04W 4/44 H04W 76/14 H04W 4/38 H04W 4/46 H04L 65/40 H04W 40/34 H04W 40/22 G08G 1/01 H04L 67/125 H04L 67/1008
(54) LOW POWER PERIODIC AND TRIGGERED LOCATION OF A MOBILE DEVICE USING EARLY DATA TRANSMISSION (73) QUALCOMM Incorporated (72) EDGE, Stephen William ZISIMOPOULOS, Haris SPEICHER, Sebastian	(31) 20100095186 (32) 30.09.2010 (33) Korea (Republic)	(11) EP3484194 (21) EP18205862.8 (47) 11.01.2023 (22) 13.11.2018
(31) 201916368204 201862732558 P 201862689820 P (32) 28.03.2019 17.09.2018 25.06.2018 (33) United States of America United States of America United States of America	(51) H04W 4/06 H04W 52/02 H04W 76/40 H04W 72/12 (11) EP3723394 (21) EP20176268.9 (47) 11.01.2023 (22) 08.11.2011 (54) METHOD AND DEVICE FOR RECEIVING A SUBFRAME IN DIFFERENT FORMS IN A WIRELESS COMMUNICATION SYSTEM (73) Samsung Electronics Co., Ltd. (72) JANG, Jae Hyuk JEONG, Kyeong In VAN LIESHOUT, Gert Jan KIM, Soeng Hun HAN, Jin-Kyu	(54) VEHICLE INFORMATION COMMUNICATION SYSTEM AND ENVIRONMENT IMPROVEMENT SYSTEM, AND SERVER USED THEREIN (73) TOYOTA JIDOSHA KABUSHIKI KAISHA (72) SAWADA, Hiroki TAMAOKI, Masato ANDO, Eisuke ENDO, Masato HASEGAWA, Kuniaki
(51) H04W 4/02 E02F 9/26 G06T 7/73 (11) EP3450637 (21) EP18189922.0 (47) 11.01.2023 (22) 21.08.2018	(31) 41111510 P (32) 08.11.2010 (33) United States of America	(54) TOYOTA JIDOSHA KABUSHIKI KAISHA (72) SAWADA, Hiroki TAMAOKI, Masato ANDO, Eisuke ENDO, Masato HASEGAWA, Kuniaki
(54) EXCAVATOR BUCKET POSITIONING VIA MOBILE DEVICE (73) Trimble Inc. (72) Li, Ding Crozier, Scott Wilson, Eric K	(51) H04W 4/10 H04W 76/12 H04W 76/27 (11) EP3820170 (21) EP19940164.7 (47) 11.01.2023 (87) CN2019100280 18.02.2021 (22) 12.08.2019	(31) 2017218408 (32) 13.11.2017 (33) Japan
(31) 201715685617 (32) 24.08.2017 (33) United States of America	(54) SESSION ESTABLISHMENT METHOD AND APPARATUS (73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. (72) YANG, Haorui LIU, Jianhua	(87) CN2019072564 29.08.2019 (22) 21.01.2019
(51) H04W 4/02 H04L 9/40 (11) EP3039843 (21) EP14747539.6 (47) 11.01.2023 (87) EP2014065175 05.03.2015 (22) 15.07.2014	(54) FILTER METHOD FOR ADAPTING A COMPUTING LOAD (73) Continental Automotive Technologies GmbH (72) SCHERPING, Richard STÄHLIN, Ulrich MENZEL, Marc	(54) METHOD, SYSTEM AND COMPUTER PROGRAMS FOR THE TRANSMISSION OF INFREQUENT SMALL DATA IN A TELECOMMUNICATION SYSTEM (73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. (72) LIN, Huei-Ming LIU, Jianhua
(54) FILTER METHOD FOR ADAPTING A COMPUTING LOAD (73) Continental Automotive Technologies GmbH (72) SCHERPING, Richard STÄHLIN, Ulrich MENZEL, Marc	(51) H04W 4/44 G08G 1/01 B60W 30/09 B60W 30/18 B60W 50/14 G06V 20/58 B60W 30/095 G08G 1/16 B60W 40/08	(31) 201862632565 P (32) 20.02.2018 (33) United States of America
		(51) H04W 4/90 H04W 4/02 G06Q 10/00 G08B 25/10

(11) EP3836584	(21) EP19718037.5	02.03.2017
(21) EP20205414.4	(47) 11.01.2023	(22) 24.08.2015
(47) 11.01.2023	(87) US2019025556	(54) DEVICE ASSOCIATION METHOD AND RELATED DEVICE
(22) 03.11.2020	10.10.2019	(73) Huawei Technologies Co., Ltd.
(54) RESCUE SUPPORT IN LARGE-SCALE EMERGENCY SITUATIONS	(22) 03.04.2019	(72) JIN, Hui
(73) Sony Group Corporation	(54) SECURE PACKET DATA CONVERGENCE PROTOCOL (PDCP) VERSION CHANGE	WANG, Jian
(72) HUANG, Sangxia	(73) QUALCOMM INCORPORATED	WANG, Da
AHLTIN, Karin	(72) BALASUBRAMANIAN, Arun Prasanth	<hr/>
ATTARIANI, Mostafa	KITAZOE, Masato	(51) H04W 16/32
(31) 1951450	YU, Yu-Ting	H04W 24/02
(32) 13.12.2019	KUBOTA, Keiichi	H04W 84/04
(33) Sweden	(31) 201916373205	(11) EP3456119
<hr/>	201862653174 P	(21) EP17714239.5
(51) H04W 12/04	(32) 02.04.2019	(47) 11.01.2023
H04L 9/08	05.04.2018	(87) EP2017057626
H04W 12/0433	(33) United States of America	16.11.2017
H04W 12/0431	United States of America	(22) 30.03.2017
H04W 12/041	<hr/>	(54) ANCHOR BASE STATION, SLAVE CELL AND USER EQUIPMENT
H04L 9/40	(51) H04W 12/06	(73) Sony Group Corporation
(11) EP3531732	H04W 12/08	(72) WEI, Yuxin
(21) EP18795025.8	H04W 76/14	WAKABAYASHI, Hideji
(47) 11.01.2023	H04W 88/04	TSUDA, Shinichiro
(87) CN2018084416	H04W 12/33	(31) 16168961
08.11.2018	(11) EP3498034	(32) 10.05.2016
(22) 25.04.2018	(21) EP17752231.5	(33) European Patent Office (EPO)
(54) ANCHOR KEY GENERATION METHOD, DEVICE AND SYSTEM	(47) 11.01.2023	<hr/>
(73) Huawei Technologies Co., Ltd.	(87) US2017045164	(51) H04W 24/00
(72) WU, Rong	15.02.2018	H04W 88/08
ZHANG, Bo	(22) 02.08.2017	(11) EP3767989
GAN, Lu	(54) METHOD AND APPARATUS FOR POWER EFFICIENT D2D COMMUNICATIONS FOR WEARABLE AND IOT DEVICES	(21) EP20193465.0
(31) 201710908017	(73) Interdigital Patent Holdings, Inc.	(47) 11.01.2023
201710313519	(72) AHMAD, Saad	(22) 13.09.2012
(32) 29.09.2017	FREDA, Martino M	(54) NARROW BANDWIDTH OPERATIONS IN LTE
05.05.2017	(31) 201662373111 P	(73) QUALCOMM Incorporated
(33) China	(32) 10.08.2016	(72) MONTOJO, Juan
China	(33) United States of America	DAMNJANOVIC, Jelena M
<hr/>	<hr/>	XU, Hao
(51) H04W 12/041	(51) H04W 12/06	CHEN, Wanshi
H04L 9/40	H04W 12/33	GAAL, Peter
H04L 9/08	H04L 9/40	(31) 201213612503
H04L 9/14	G06F 1/16	201161534206 P
G06Q 20/34	(11) EP3657750	(32) 12.09.2012
G06Q 20/32	(21) EP18207595.2	13.09.2011
G06Q 20/38	(47) 11.01.2023	(33) United States of America
G06Q 20/40	(22) 21.11.2018	United States of America
G06Q 20/10	(54) METHOD FOR THE AUTHENTICATION OF A PAIR OF DATA GLASSES IN A DATA NETWORK	<hr/>
H04W 4/80	(73) TeamViewer Germany GmbH	(51) H04W 28/16
(11) EP3942768	(72) Holle, Henrik	H04W 80/02
(21) EP20718948.1	Witt, Hendrik	H04W 80/04
(47) 11.01.2023	Eggert, Christoph	H04L 12/14
(87) US2020023123	<hr/>	H04M 15/00
24.09.2020	(51) H04W 12/08	H04W 4/24
(22) 17.03.2020	H04W 88/04	H04W 28/02
(54) NFC MOBILE CURRENCY TRANSFER	H04W 48/08	(11) EP3747212
(73) Capital One Services, LLC	H04W 88/06	(21) EP19753801.0
(72) ILINCIC, Rajko	H04W 52/02	(47) 11.01.2023
RULE, Jeffrey	H04W 48/14	(87) CN2019075029
(31) 201916359971	H04W 12/04	22.08.2019
(32) 20.03.2019	H04W 12/084	(22) 14.02.2019
(33) United States of America	H04W 12/33	(54) TRACKING QOS VIOLATED EVENTS
<hr/>	(11) EP3324663	(73) Huawei Technologies Co., Ltd.
(51) H04W 12/041	(21) EP15901932.2	(72) DAO, Ngoc Dung
H04W 12/086	(47) 11.01.2023	(31) 201916274769
H04W 12/30	(87) CN2015087895	201862631113 P
H04W 36/00		(32) 13.02.2019
H04W 36/06		15.02.2018
H04W 76/22		(33) United States of America
H04W 76/27		United States of America
(11) EP3777275		<hr/>

(51) H04W 36/00	201762519871 P	(31) 201615168780
(11) EP3829211	(32) 15.06.2017	201562171684 P
(21) EP21152818.7	15.06.2017	(32) 31.05.2016
(47) 11.01.2023	(33) United States of America	05.06.2015
(22) 16.08.2011	United States of America	(33) United States of America
(54) USER EQUIPMENT, BASE STATION	(51) H04W 48/18	United States of America
AND METHODS OF COMMUNICATING	H04W 8/02	(51) H04W 56/00
MEASUREMENT INFORMATION	H04W 60/06	(11) EP3621369
ASSOCIATED WITH A USER	H04W 48/04	(21) EP17908454.6
EQUIPMENT IN A WIRELESS	H04W 84/04	(47) 11.01.2023
COMMUNICATION NETWORK	H04W 60/00	(87) JP2017017297
ENVIRONMENT	(11) EP3432652	08.11.2018
(73) Samsung Electronics Co., Ltd.	(21) EP17779313.0	(22) 02.05.2017
(72) Jain, Nitin	(47) 11.01.2023	(54) USER TERMINAL AND WIRELESS
Basu Mallick, Prateek	(87) KR2017003623	COMMUNICATION METHOD
Ramamoorthy, Shrinath	12.10.2017	(73) NTT DOCOMO, INC.
(31) 2347CH2010	(22) 03.04.2017	(72) HARADA, Hiroki
(32) 14.08.2010	(54) METHOD FOR PROCESSING ACCESS	TAKEDA, Daiki
(33) India	REQUEST FROM UE, AND NETWORK	NAGATA, Satoshi
(51) H04W 36/00	NODE	WANG, Jing
H04W 16/22	(73) LG Electronics Inc.	(51) H04W 56/00
(11) EP3937453	(72) KIM, Hyunsook	(11) EP3703437
(21) EP20185039.3	PARK, Sangmin	(21) EP18879930.8
(47) 11.01.2023	YOUN, Myungjune	(47) 11.01.2023
(22) 09.07.2020	CHUN, Sungduck	(87) CN2018076780
(54) METHOD FOR AN IMPROVED	(31) 201662337343 P	23.05.2019
EMULATION AND/OR INTERWORKING	201662318229 P	(22) 13.02.2018
FUNCTIONALITY BETWEEN A	(32) 17.05.2016	(54) TIME SYNCHRONIZATION METHOD
FIRST MOBILE COMMUNICATION	05.04.2016	AND DEVICE
NETWORK AND A SECOND MOBILE	(33) United States of America	(73) Huawei Technologies Co., Ltd.
COMMUNICATION NETWORK,	United States of America	(72) YU, Feng
SYSTEM, EMULATION FUNCTION,	(51) H04W 52/02	YU, Haifeng
PROGRAM AND COMPUTER	H04B 7/005	LIN, Bo
PROGRAM PRODUCT	(11) EP3482587	YU, Guangwei
(73) Deutsche Telekom AG	(21) EP17836381.8	GAO, Feng
(72) COLOM IKUNO, Josep	(47) 11.01.2023	(31) PCT/CN2017/111470
LAUSTER, Reinhard	(87) CN2017095467	(32) 16.11.2017
(51) H04W 36/00	08.02.2018	(33) World Intellectual Property Office (WIPO)
H04W 36/14	(22) 01.08.2017	(51) H04W 56/00
(11) EP3764690	(54) SYSTEM AND METHOD FOR WAKING	(11) EP3687231
(21) EP19785927.5	UP A RADIO COMMUNICATIONS	(21) EP20160686.0
(47) 11.01.2023	MODULE OF A DEVICE	(47) 11.01.2023
(87) CN2019079778	(73) Huawei Technologies Co., Ltd.	(22) 31.01.2014
17.10.2019	(72) YANG, Yunsong	(54) METHOD AND APPARATUS FOR
(22) 27.03.2019	RONG, Zhigang	PROVIDING COMMON TIME
(54) NETWORK SWITCHING METHOD AND	DU, Zhenguo	REFERENCE IN WIRELESS
APPARATUS FOR VOICE SERVICE	(31) 201715648945	COMMUNICATION SYSTEM
(73) HUAWEI TECHNOLOGIES CO., LTD.	201662370509 P	(73) Samsung Electronics Co., Ltd.
(72) CHONG, Weiwei	(32) 13.07.2017	(72) Ro, Sangmin
WU, Xiaobo	03.08.2016	Kwak, Yongjun
(31) 201810312595	(33) United States of America	Ji, Hyoungju
(32) 09.04.2018	United States of America	Cho, Joonyoung
(33) China	(51) H04W 52/34	Kim, Younsun
(51) H04W 48/14	H04L 5/00	Choi, Seunghoon
H04W 48/20	(11) EP3295724	(31) 20130011883
(11) EP3607780	(21) EP16802599.7	(32) 01.02.2013
(21) EP18818395.8	(47) 11.01.2023	(33) Korea (Republic)
(47) 11.01.2023	(87) CN2016084754	(51) H04W 56/00
(87) KR2018006757	08.12.2016	H04W 72/12
20.12.2018	(22) 03.06.2016	(11) EP3481115
(22) 15.06.2018	(54) SYSTEMS AND METHODS FOR	(21) EP17838603.3
(54) METHOD AND APPARATUS FOR	ADAPTIVE PILOT ALLOCATION	(47) 11.01.2023
HANDLING FAILURE OF SYSTEM	(73) Huawei Technologies Co., Ltd.	(87) CN2017095466
INFORMATION REQUEST	(72) KRZYMIEN, Lukasz	15.02.2018
(73) LG Electronics Inc.	SARTORI, Philippe	(22) 01.08.2017
(72) LEE, Youngdae	XIAO, Weimin	(54) TIMING SEQUENCE ADJUSTMENT
KIM, Sangwon	CHENG, Qian	METHOD, BASE STATION, TERMINAL
(31) 201762519872 P	COZZO, Carmela	AND COMMUNICATION SYSTEM

(73) Datang Mobile Communications Equipment Co., Ltd.	(73) Beijing Xiaomi Mobile Software Co., Ltd.	China
(72) WANG, Lei	(72) LIU, Yang	China
SI, Qianqian	(51) H04W 72/04	China
PAN, Xueming	H04W 4/70	China
GAO, Xuejuan	H04W 74/08	(51) H04W 74/00
(31) 201610659286	(11) EP3917248	H04W 74/08
(32) 11.08.2016	(21) EP21173349.8	(11) EP3753354
(33) China	(47) 11.01.2023	(21) EP19707165.7
(51) H04W 68/02	(22) 08.09.2016	(47) 11.01.2023
H04W 52/02	(54) METHODS PROVIDING UL GRANTS INCLUDING TIME DOMAIN CONFIGURATION	(87) US2019015912 22.08.2019
(11) EP3735057	(73) Telefonaktiebolaget LM Ericsson (publ)	(22) 30.01.2019
(21) EP18903120.6	(72) Tirronen, Tuomas	(54) GROUP BASED SCHEDULED AND AUTONOMOUS UPLINK COEXISTENCE
(47) 11.01.2023	Blankenship, Yufei	(73) QUALCOMM Incorporated
(87) CN2018074763	Bergman, Johan	(72) YERRAMALLI, Srinivas
08.08.2019	Yavuz, Emre	SUN, Jing
(22) 31.01.2018	(31) 201562232743 P	ZHANG, Xiaoxia
(54) PAGING METHOD, TERMINAL DEVICE AND NETWORK DEVICE	(32) 25.09.2015	BHATTAD, Kapil
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(33) United States of America	(31) 201841006008
(72) TANG, Hai	(51) H04W 72/08	201916261203
(51) H04W 72/04	H04W 72/04	(32) 16.02.2018
(11) EP3840505	(11) EP3541130	29.01.2019
(21) EP19866949.1	(21) EP16922094.4	(33) India
(47) 11.01.2023	(47) 11.01.2023	United States of America
(87) CN2019103143	(87) CN2016107229	(51) H04W 74/00
02.04.2020	31.05.2018	H04W 74/08
(22) 28.08.2019	(22) 25.11.2016	H04W 72/02
(54) METHOD AND DEVICE FOR CONFIGURING MEASUREMENT SIGNAL	(54) DATA TRANSMISSION METHOD AND APPARATUS	(11) EP3768016
(73) HUAWEI TECHNOLOGIES CO., LTD.	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(21) EP19781910.5
(72) LIU, Fengwei	(72) YANG, Ning	(47) 11.01.2023
CHEN, Lei	(51) H04W 72/12	(87) CN2019081524
QIU, Jing	H04W 92/18	10.10.2019
(31) 201811122607	(11) EP3806577	(22) 04.04.2019
(32) 26.09.2018	(21) EP18925229.9	(54) COMMUNICATIONS METHODS, COMMUNICATIONS APPARATUSES AND COMPUTER STORAGE MEDIUM
(33) China	(47) 11.01.2023	(73) HUAWEI TECHNOLOGIES CO., LTD.
(51) H04W 72/04	(87) CN20181115283	(72) LIU, Jianqin
H04L 1/18	09.01.2020	GAO, Xiang
H04L 5/14	(22) 13.11.2018	ZHOU, Yongxing
H04L 5/00	(54) CONTROL INFORMATION TRANSMISSION METHOD AND APPARATUS, RESOURCE POOL CONFIGURATION METHOD AND APPARATUS, AND COMMUNICATION DEVICE	(31) 201810302376
(11) EP3751930	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(32) 04.04.2018
(21) EP18906001.5	(72) LU, Qianxi	(33) China
(47) 11.01.2023	LIN, Huei-Ming	(51) H04W 74/08
(87) CN2018076679	(31) 201811027557	H04W 52/32
22.08.2019	201811026782	(11) EP3873162
(22) 13.02.2018	201811028294	(21) EP19888293.8
(54) METHOD AND APPARATUS FOR TRANSMITTING HARQ INFORMATION, AND COMPUTER STORAGE MEDIUM	201810799372	(47) 11.01.2023
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	201810730628	(87) CN2019120034
(72) TANG, Hai	201810731570	04.06.2020
(51) H04W 72/04	201810729890	(22) 21.11.2019
H04L 5/00	(32) 04.09.2018	(54) RANDOM ACCESS METHOD AND DEVICE
H04L 27/00	04.09.2018	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
H04W 74/08	04.09.2018	(72) XU, Weijie
(11) EP3873152	04.09.2018	HE, Chuanfeng
(21) EP18939033.9	19.07.2018	XU, Jing
(47) 11.01.2023	05.07.2018	SHI, Cong
(87) CN2018112776	05.07.2018	WU, Zuomin
07.05.2020	05.07.2018	(31) PCT/CN2018/118653
(22) 30.10.2018	(33) China	(32) 30.11.2018
(54) DOWNLINK CONTROL INFORMATION RECEIVING METHOD, TRANSMITTING METHOD AND APPARATUSES	China	(33) World Intellectual Property Office (WIPO)
	China	(51) H04W 76/14
	China	H04W 16/20
		H04L 12/28

H04W 84/12	(51) H04W 84/20	ILIC, Miroslav
(11) EP3745808	H04W 8/00	MILOSAVLJEVIC, Ratko
(21) EP20176345.5	H04W 84/12	(31) 18202638
(47) 11.01.2023	H04W 88/00	(32) 25.10.2018
(22) 25.05.2020	H04W 24/02	(33) European Patent Office (EPO)
(54) METHOD AND DEVICE FOR	H04W 28/18	(51) H05B 45/10
INSTALLING A NODE IN A HOME	(11) EP3419379	H05B 45/50
NETWORK	(21) EP18182969.8	H05B 45/48
(73) SAGEMCOM BROADBAND SAS	(47) 11.01.2023	H05B 45/395
(72) ROCQUELAY, Antonie	(22) 22.04.2010	(11) EP3305025
ATZEL, Loig	(54) COMMUNICATION DEVICE, CONTROL	(21) EP16728601.2
(31) 1905680	METHOD OF COMMUNICATION	(47) 11.01.2023
(32) 28.05.2019	DEVICE AND PROGRAM	(87) AT2016050167
(33) France	(73) Canon Kabushiki Kaisha	08.12.2016
(51) H04W 76/19	(72) SAKAI, Tatsuhiko	(22) 30.05.2016
(11) EP3750372	(31) 2009118973	(54) ILLUMINATING DEVICE FOR
(21) EP18707881.1	(32) 15.05.2009	VEHICLES
(47) 11.01.2023	(33) Japan	(73) ZKW Group GmbH
(87) EP2018054281	(51) H05B 3/14	(72) WEBER, Emanuel
29.08.2019	H05B 3/48	FRITZ, Gerald
(22) 21.02.2018	H01J 1/24	(31) 504452015
(54) CLIENT DEVICE AND NETWORK	H01J 1/22	(32) 01.06.2015
ACCESS NODE FOR CONTROLLING A	(11) EP3991515	(33) Austria
RADIO LINK FAILURE TIMER	(21) EP20750935.7	(51) H05B 45/58
(73) HUAWEI TECHNOLOGIES CO., LTD.	(47) 11.01.2023	H05B 47/20
(72) WANG, Peng	(87) US2020041336	H05B 47/28
CAI, Tao	04.02.2021	(11) EP3217766
(51) H04W 80/10	(22) 09.07.2020	(21) EP17160361.6
H04W 76/00	(54) MULTI-APERTURED CONDUCTION	(47) 11.01.2023
H04W 36/00	HEATER	(22) 10.03.2017
H04W 36/12	(73) Lockheed Martin Corporation	(54) METHOD FOR OPERATING A LIGHT
H04W 76/11	(72) EBERSOHN, Frans, Hendrik	(73) Trilux GmbH & Co. KG
H04W 76/12	SOVEREIGN, Randall, James	(72) Müller, Sven
H04W 76/19	SULLIVAN, Regina, Mariko	Pausch, Chaled
(11) EP3923674	(31) 201916529454	Bigge, Guido
(21) EP21170011.7	(32) 01.08.2019	Knoche, Sebastian
(47) 11.01.2023	(33) United States of America	(31) 102016104493
(22) 20.03.2017	(51) H05B 6/06	(32) 11.03.2016
(54) METHOD AND APPARATUS FOR	H05B 6/12	(33) Germany
ESTABLISHING PDU SESSIONS	F24C 7/08	(51) H05B 47/105
(73) Huawei Technologies Co., Ltd.	F24C 15/10	H05B 47/155
(72) DOU, Fenghui	(11) EP3738407	H05B 47/195
JIN, Hui	(21) EP18815816.6	H05B 45/12
OUYANG, Guowei	(47) 11.01.2023	H05B 47/115
HE, Yue	(87) IB2018059302	H05B 47/11
YANG, Haorui	11.07.2019	H02J 9/02
(51) H04W 84/12	(22) 26.11.2018	(11) EP3414977
H04B 7/0452	(54) HOB DEVICE	(21) EP17717245.9
H04J 1/00	(73) BSH Hausgeräte GmbH	(47) 11.01.2023
H04L 27/26	(72) DELGADO SANCHO, Enrique	(87) IT2017000019
H04W 28/04	FUERTES PINOL, Clara	17.08.2017
H04W 72/12	HERRERA RODRIGUEZ, Javier	(22) 01.02.2017
(11) EP3488659	MENA RAMIREZ, Jorge	(54) APPARATUS AND METHOD FOR
(21) EP17830833.4	PALACIOS TOMAS, Daniel	REMOTE CONTROL OF LIGHTING
(47) 11.01.2023	(31) 201830011	EQUIPMENTS
(87) JP2017024482	(32) 08.01.2018	(73) Beghelli S.p.A.
25.01.2018	(33) Spain	(72) BEGHELLI, Gian Pietro
(22) 04.07.2017	(51) H05B 45/00	(31) UA20163277
(54) TRANSMISSION APPRATUS AND	(11) EP3871470	UB20160571
TRANSMISSION METHOD	(21) EP19786999.3	(32) 09.05.2016
(73) Panasonic Intellectual Property	(47) 11.01.2023	08.02.2016
Corporation of America	(87) EP2019078661	(33) Italy
(72) CHITRAKAR Rojan	30.04.2020	Italy
HUANG Lei	(22) 22.10.2019	(51) H05B 47/105
URABE Yoshio	(54) ELECTRONIC CONTROLLER	H05B 47/18
(31) 2016144911	APPARATUS AND CONTROL METHOD	(11) EP2868161
(32) 22.07.2016	(73) Signify Holding B.V.	(21) EP13735151.6
(33) Japan	(72) FATIUK, Oleksandr	(47) 11.01.2023

- | | |
|---|--|
| <p>(87) US2013047602
09.01.2014
(22) 25.06.2013
(54) MODULAR LIGHTING CONTROL
(73) IDEAL INDUSTRIES LIGHTING LLC
(72) HARRIS, Michael, James
(31) 201213589899
201261666920 P
(32) 20.08.2012
01.07.2012
(33) United States of America
United States of America</p> <hr/> <p>(51) H05K 3/30
H05K 3/12
(11) EP3621417
(21) EP18193210.4
(47) 11.01.2023
(22) 07.09.2018
(54) METHOD FOR APPLYING
ELECTRONIC COMPONENTS
(73) Lumileds LLC
(72) EPMEIER, Matthias
WELLMEIER, Petra
GIESE, Frank
WEBER, Carsten
DECKERS, Michael</p> <hr/> <p>(51) H05K 7/14
(11) EP3858121
(21) EP18780090.9
(47) 11.01.2023
(87) EP2018076335
02.04.2020
(22) 27.09.2018
(54) INHIBITOR MODULE AND SHIELDING
ARRANGEMENTS FOR HIGH
VOLTAGE EQUIPMENT
(73) Hitachi Energy Switzerland AG
(72) LARSSON, Mats
TORNKVIST, Christer
ARÉVALO, Liliana
WU, Dong</p> <hr/> <p>(51) H05K 7/20
(11) EP3935926
(21) EP20707618.3
(47) 11.01.2023
(87) EP2020055139
10.09.2020
(22) 27.02.2020
(54) DIRECT COOLING OF A POWER
CONVERTER BY USING A STAMPED
PLATE
(73) Audi AG
Hitachi Energy Switzerland AG
(72) GRADINGER, Thomas
APELSMEIER, Andreas
SÖHNLE, Benjamin
TORRESIN, Daniele
(31) 102019202902
(32) 04.03.2019
(33) Germany</p> <hr/> <p>(51) H05K 7/20
H02B 1/56
(11) EP3664588
(21) EP19207752.7
(47) 11.01.2023
(22) 07.11.2019</p> | <p>(54) SYSTEM FOR MANAGING THE
TEMPERATURE IN AN ELECTRIC
ENVELOPE
(73) Schneider Electric Industries SAS
(72) AGNAOU, Abderrahmane
LOPEZ, Josep
PERRIN, Alain
(31) 1872311
(32) 04.12.2018
(33) France</p> <hr/> <p>(51) H05K 7/20
H02J 7/00
(11) EP3694301
(21) EP18873394.3
(47) 11.01.2023
(87) CN2018112256
09.05.2019
(22) 27.10.2018
(54) WIRELESS CHARGING DEVICE
(73) Huawei Technologies Co., Ltd.
(72) SUI, Jiajia
LI, Quanming
YANG, Guo
LIN, Shuainan
(31) 201711035158
(32) 30.10.2017
(33) China</p> <hr/> |
|---|--|

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 17/00 A01C 15/00 A01B 63/10 G01G 23/00	29.06.2020 (33) Taiwan, Province of China Taiwan, Province of China (47) 04.01.2023	C12N 5/077 (11) EP3069606 (21) EP14862785.4 (22) 13.11.2014
(11) EP3771320 (21) EP20401041.7 (22) 16.07.2020 (54) METHOD FOR ADJUSTING THE INCLINATION OF AN AGRICULTURAL SPREADER	(51) A01H 5/08 C12N 15/82 A01H 1/04 C12Q 1/68 (11) EP2753168 (21) EP12756468.0 (22) 07.09.2012 (54) NEW PEPPER PLANTS AND FRUITS WITH IMPROVED NUTRITIONAL VALUE	(54) INTERLEUKIN 2 RECEPTOR GAMMA GENE TARGETING VECTOR, PRODUCTION OF IMMUNE CELL-DEFICIENT TRANSGENIC CLONED MINI PIG HAVING VECTOR INTRODUCED THEREIN, PREPARATION METHOD THEREFOR AND USE THEREOF (73) The Curators of the University of Missouri Kim, Jin-Hoi (72) LEE, Kiho KWON, Deug-Nam PRATHER, Randall S. KIM, Jin-Hoi
(73) Amazonen-Werke H. Dreyer SE & Co. KG (72) Kötter, Heiner Kleine-Hartlage, Hubertus Meyer zu Hoberge, Jörg Ströbel-Fröschle, Markus (74) ir. W.J.J.M. Kempes (31) 102019120473 (32) 30.07.2019 (33) Germany (47) 30.11.2022	(54) NEW PEPPER PLANTS AND FRUITS WITH IMPROVED NUTRITIONAL VALUE (73) Syngenta Participations AG (72) COOK, Kevin CZAPLEWSKI, Steven, John VAN WIJK, Henricus, Johannes BOYDEN, Laurie (74) ir. W.J.J.M. Kempes (31) 11180586 (32) 08.09.2011 (33) European Patent Office (EPO) (47) 19.10.2022	(73) The Curators of the University of Missouri Kim, Jin-Hoi (72) LEE, Kiho KWON, Deug-Nam PRATHER, Randall S. KIM, Jin-Hoi (74) dr. R.C. van Duijvenbode c.s. (31) 20130137675 (32) 13.11.2013 (33) Korea (Republic) (47) 04.01.2023
(51) A01D 34/17 A01D 34/135 (11) EP3881664 (21) EP20204705.6 (22) 29.10.2020 (54) MOWER BLADE DEVICE	(32) 08.09.2011 (33) European Patent Office (EPO) (47) 19.10.2022 (51) A01H 5/12 C07K 14/415 (11) EP3182820 (21) EP15763211.8 (22) 17.08.2015 (54) TOMATO PLANTS ALLOWING THE ESTABLISHMENT OF MITES	(54) INTERLEUKIN 2 RECEPTOR GAMMA GENE TARGETING VECTOR, PRODUCTION OF IMMUNE CELL-DEFICIENT TRANSGENIC CLONED MINI PIG HAVING VECTOR INTRODUCED THEREIN, PREPARATION METHOD THEREFOR AND USE THEREOF (73) The Curators of the University of Missouri Kim, Jin-Hoi (72) LEE, Kiho KWON, Deug-Nam PRATHER, Randall S. KIM, Jin-Hoi (74) dr. R.C. van Duijvenbode c.s. (31) 20130137675 (32) 13.11.2013 (33) Korea (Republic) (47) 04.01.2023
(73) Wepfer Technics AG (72) Wepfer, Hans (74) ir. H.A. Witmans c.s. (31) 3142020 (32) 16.03.2020 (33) Switzerland (47) 19.10.2022	(32) 08.09.2011 (33) European Patent Office (EPO) (47) 19.10.2022 (51) A01H 5/12 C07K 14/415 (11) EP3182820 (21) EP15763211.8 (22) 17.08.2015 (54) TOMATO PLANTS ALLOWING THE ESTABLISHMENT OF MITES	(54) RECOMBINATION ACTIVATING GENE 2 GENE TARGETING VECTOR, PRODUCTION OF SCID-LIKE MINIATURE PIGS BY TALEN-MEDIATED GENE TARGETING AND USE THEREOF (73) The Curators of the University of Missouri Kim, Jin-Hoi (72) KIM, Jin-Hoi LEE, Kiho KWON, Deug-Nam PRATHER, Randall S. (74) dr. R.C. van Duijvenbode c.s. (31) 20130137677 (32) 13.11.2013 (33) Korea (Republic) (47) 04.01.2023
(51) A01F 15/08 (11) EP3855884 (21) EP19768852.6 (22) 18.09.2019 (54) BALLER WITH AN HYDRAULIC MOTOR	(73) Rijk Zwaan Zaadteelt en Zaadhandel B.V. (72) VAN HERWIJNEN, Zeger Otto VAN HOUTEN, Yvonne, Maria BOLCKMANS, Karel, Jozef, Florent DE JOODE, Jasper DRÄGER, Dörthe Bettina (74) dr. ir. G.J.C. Verdijck c.s. (31) 14181306 (32) 18.08.2014 (33) European Patent Office (EPO) (47) 05.10.2022	(54) RECOMBINATION ACTIVATING GENE 2 GENE TARGETING VECTOR, PRODUCTION OF SCID-LIKE MINIATURE PIGS BY TALEN-MEDIATED GENE TARGETING AND USE THEREOF (73) The Curators of the University of Missouri Kim, Jin-Hoi (72) KIM, Jin-Hoi LEE, Kiho KWON, Deug-Nam PRATHER, Randall S. (74) dr. R.C. van Duijvenbode c.s. (31) 20130137677 (32) 13.11.2013 (33) Korea (Republic) (47) 04.01.2023
(73) Hylar BVBA (72) BAERT, Niels (74) dr. ir. G.J.C. Verdijck c.s. (31) 1858848 (32) 27.09.2018 (33) France (47) 02.11.2022	(51) A01K 5/00 A01K 5/02 (11) EP3741207 (21) EP20185236.5 (22) 19.06.2018 (54) ROBOT	(54) RECOMBINATION ACTIVATING GENE 2 GENE TARGETING VECTOR, PRODUCTION OF SCID-LIKE MINIATURE PIGS BY TALEN-MEDIATED GENE TARGETING AND USE THEREOF (73) The Curators of the University of Missouri Kim, Jin-Hoi (72) KIM, Jin-Hoi LEE, Kiho KWON, Deug-Nam PRATHER, Randall S. (74) dr. R.C. van Duijvenbode c.s. (31) 20130137677 (32) 13.11.2013 (33) Korea (Republic) (47) 04.01.2023
(51) A01G 9/02 A01G 27/02 (11) EP3932185 (21) EP21178988.8 (22) 11.06.2021 (54) PLANT POT	(54) ROBOT (73) Trioliet B.V. (72) Liet, Cornelius Hendricus (74) dr. R.C. van Duijvenbode c.s. (31) 202017104377 U (32) 21.07.2017 (33) Germany (47) 16.11.2022	(54) RECOMBINATION ACTIVATING GENE 2 GENE TARGETING VECTOR, PRODUCTION OF SCID-LIKE MINIATURE PIGS BY TALEN-MEDIATED GENE TARGETING AND USE THEREOF (73) The Curators of the University of Missouri Kim, Jin-Hoi (72) KIM, Jin-Hoi LEE, Kiho KWON, Deug-Nam PRATHER, Randall S. (74) dr. R.C. van Duijvenbode c.s. (31) 20130137677 (32) 13.11.2013 (33) Korea (Republic) (47) 04.01.2023
(73) Sheng San Co., Ltd. (72) CHANG, Cheng-Chung (74) ir. M.B. Plaggenborg (31) 110206440 U 109208209 U (32) 03.06.2021	(51) A01K 67/027 C12N 5/10 C12N 15/85 C12N 15/877	(54) PROTECTOR FOR ANIMAL HOOVES (73) Evo Horse S.L. (72) PEREIRA SUÁREZ, Florentino VILLASEVIL FLORENSA, Albert BERND WERNER, Jung

(74) dr. R.C. van Duijvenbode c.s. (47) 02.11.2022	ACTON, Dennis Stanley ABRAHAMSE-BERKEVELD, Marieke	(73) Philip Morris Products S.A. (72) ROSTAMI, Ali A.
(51) A01M 7/00 (11) EP3636075 (21) EP19401038.5 (22) 27.09.2019 (54) AGRICULTURAL DISTRIBUTION MACHINE AND METHOD FOR EXAMINING A DISTRIBUTION ELEMENT	(74) dr. R.C. van Duijvenbode c.s. (31) 15190039 (32) 15.10.2015 (33) European Patent Office (EPO) (47) 16.11.2022	TUCKER, Christopher S. LIPOWICZ, Peter MISHRA, Munmaya K. ARENA, Richard KANE, David KOBAL, Gerd FLORA, Jason KOLLER, Kent B. BARNES, Catherine PITHAWALLA, Yezdi KARLES, George
(73) Amazonen-Werke H. Dreyer SE & Co. KG (72) Trentmann, Markus (74) ir. W.J.J.M. Kempes (31) 102018125152 (32) 11.10.2018 (33) Germany (47) 07.12.2022	(51) A24B 15/16 A24F 47/00 (11) EP3813567 (21) EP19733804.9 (22) 28.06.2019 (54) CARTRIDGE FOR AN AEROSOL-GENERATING SYSTEM CONTAINING A NICOTINE SOURCE COMPRISING A LIQUID NICOTINE FORMULATION	(74) dr. W.A.H.M. Van Borm (31) 201615067867 (32) 11.03.2016 (33) United States of America (47) 30.11.2022
(51) A01N 25/02 A01N 25/04 (11) EP3787402 (21) EP19727153.9 (22) 23.04.2019 (54) EMULSIFIABLE CONCENTRATES	(73) Philip Morris Products S.A. (72) ZINOVIK, Ihar Nikolaevich TAURINO, Irene (74) dr. W.A.H.M. Van Borm (31) 18180542 (32) 28.06.2018 (33) European Patent Office (EPO) (47) 23.11.2022	(74) dr. W.A.H.M. Van Borm (31) 201615067867 (32) 11.03.2016 (33) United States of America (47) 30.11.2022
(73) Dow Global Technologies LLC (72) LAITAR, David S. KLAMO, Sara B. CADE, Keosha L. (74) ir. W.J.J.M. Kempes (31) 201862664994 P (32) 01.05.2018 (33) United States of America (47) 09.11.2022	(51) A24C 5/358 (11) EP3415018 (21) EP18177475.3 (22) 13.06.2018 (54) CARTON CARRIER FOR CARTONS WITH ROD-SHAPED PRODUCTS OF THE TOBACCO PROCESSING INDUSTRY AND INSTALLATION FOR THE TRANSPORT OF SUCH CARTON CARRIERS	(11) EP3471564 (21) EP17726591.5 (22) 22.05.2017 (54) VAPORISER ASSEMBLY FOR AN AEROSOL-GENERATING SYSTEM
(51) A23B 7/16 A01N 3/00 A23B 5/06 A23B 9/14 C09D 7/63 (11) EP3349589 (21) EP16781890.5 (22) 15.09.2016 (54) METHOD FOR FORMING A PROTECTIVE COATING BY APPLYING FATTY ACID GLYCERIDE COMPOUNDS TO A SURFACE	(73) Körber Technologies GmbH (72) HARTMANN, Florian ROOSE, Jan SCHULTZ, Christine (74) ir. F.A. Geurts c.s. (31) 102017113215 (32) 15.06.2017 (33) Germany (47) 19.10.2022	(73) Philip Morris Products S.A. (72) DUC, Fabien (74) dr. W.A.H.M. Van Borm (31) 16175307 (32) 20.06.2016 (33) European Patent Office (EPO) (47) 30.11.2022
(73) Apeel Technology, Inc. (72) FRAZIER, Charles Patrick ROGERS, James HERNANDEZ, Carlos HOLLAND, Chance KAUN, Stephen William PEREZ, Louis (74) dr. A. Krebs (31) 201562219372 P (32) 16.09.2015 (33) United States of America (47) 14.12.2022	(51) A24D 1/20 A24D 3/04 A24D 3/06 A24D 3/17 (11) EP3566591 (21) EP18178812.6 (22) 20.06.2018 (54) HEAT-NOT-BURN (HNB) SMOKING ARTICLE	(11) EP3558038 (21) EP17821577.8 (22) 18.12.2017 (54) AEROSOL-GENERATING SYSTEM WITH PAIRS OF ELECTRODES
(51) A23L 33/17 A23L 33/115 (11) EP3574771 (21) EP19176762.3 (22) 14.10.2016 (54) INFANT FORMULA WITH SPECIAL LIPID ARCHITECTURE FOR PROMOTING HEALTHY GROWTH	(73) Shenzhen Dakavape Tech Co., Ltd. (72) WANG, Huayou (74) ir. W.J.J.M. Kempes (31) 201820716879 U (32) 12.05.2018 (33) China (47) 12.10.2022	(73) Philip Morris Products S.A. (72) EMMETT, Robert REEVELL, Tony BESSANT, Michel ROBERT, Jacques (74) dr. W.A.H.M. Van Borm (31) 16206381 (32) 22.12.2016 (33) European Patent Office (EPO) (47) 30.11.2022
(73) N.V. Nutricia (72) VAN DER BEEK, Eline Marleen SCHOEN, Stefanie	(51) A24F 40/10 A24F 40/30 A24F 40/40 A24F 40/50 H04B 7/26 (11) EP3426075 (21) EP17710246.4 (22) 10.03.2017 (54) E-VAPING DEVICE	(51) A24F 40/42 A24F 40/46 A24F 40/485 A24F 40/10 A24F 40/70 (11) EP3471564 (21) EP17726591.5 (22) 22.05.2017 (54) VAPORISER ASSEMBLY FOR AN AEROSOL-GENERATING SYSTEM
		(73) Shanghai Pacific Hat Manufacturing Co., Ltd. (72) WARSAW, Joshua TSAI, Chia-Ching SUN, Yan (74) dr. A. Krebs

(47) 14.12.2022	(21) EP21154838.3	(73) Storyteller Overland, LLC
(51) A45D 29/11	(22) 02.02.2021	(72) HUNTER, Jeffrey
A45D 29/18	(54) ADJUSTABLE WORKING OR	ISBELL, Mark
A45D 34/04	MOUNTING TABLE	SLATER, Dave
A46B 5/00	(73) Reinhold Beck Maschinenbau GmbH	FREYERMUTH, Dan
A46B 7/00	(72) Beck, Reinhold	LANG, Brent
A46B 11/00	(74) mr. ir. J. van Breda c.s.	DONALDSON, Adam
A45D 29/22	(31) 102020111319	(74) dr. R.C. van Duijvenbode c.s.
A45D 29/17	(32) 25.04.2020	(31) 201962816571 P
(11) EP3576567	(33) Germany	(32) 11.03.2019
(21) EP18747437.4	(47) 14.12.2022	(33) United States of America
(22) 31.01.2018	(51) A47C 21/04	(47) 12.10.2022
(54) AUTOMATED NAIL POLISH	A47C 17/48	(51) A47K 13/12
APPLICATION APPARATUS	A47C 27/15	(11) EP3574813
(73) Nailomatic Ltd.	(11) EP3813597	(21) EP18189769.5
(72) MOR YOSEF, Avichay	(21) EP19827157.9	(22) 20.08.2018
SOKOL, Gil	(22) 26.06.2019	(54) HINGE FOR A TOILET SEAT SET
MILLER, Ron	(54) BODY SUPPORT CUSHION WITH	(73) Franz Joseph Schütte GmbH
MORAN, Omri	VENTILATION SYSTEM	(72) LIETZMANN, Sebastian
(74) ir. W.J.J.M. Kempes	(73) Tempur World, LLC	(74) ir. H.A. Witmans c.s.
(31) 201762533720 P	(72) EVANS, JR., James A.	(31) 202018102956 U
201762452461 P	ALBERTO, Justin	(32) 28.05.2018
201762574241 P	SWITZER, Stephen	(33) Germany
(32) 18.07.2017	GHANEI, Hamid	(47) 19.10.2022
31.01.2017	GWALTNEY, Judson P.	(51) A47L 9/04
19.10.2017	JANSEN, Taylor M.	(11) EP3900598
(33) United States of America	GARMA, Henry	(21) EP21177966.5
United States of America	TAR, Alanda	(22) 10.05.2019
United States of America	(74) ir. H.A. Witmans c.s.	(54) VACUUM CLEANER AND METHOD
(47) 19.10.2022	(31) 201816023364	FOR CONTROLLING THEREOF
(51) A46B 5/00	(32) 29.06.2018	(73) Samsung Electronics Co., Ltd.
(11) EP3855976	(33) United States of America	(72) KIM, Kyoungwoung
(21) EP20754261.4	(47) 21.12.2022	LEE, Yongdae
(22) 14.08.2020	(51) A47F 5/11	LIM, Seungmoo
(54) PERSONAL CARE SYSTEM WITH A	(11) EP3871565	JUNG, Bumun
SET OF FUNCTIONAL UNITS	(21) EP21156655.9	(74) dr. R.C. van Duijvenbode c.s.
(73) Koninklijke Philips N.V.	(22) 11.02.2021	(31) 20180056968
(72) MULDER, Bernardo, Arnoldus	(54) GOODS DISPLAY STATION	(32) 18.05.2018
NENGERMAN, Joost, Willem, Frederik	(73) Gustav Stabernack GmbH	(33) Korea (Republic)
YPENBURG, Renger	(72) Füg, Jörg	(47) 30.11.2022
BRON, Johan	(74) ir. J.C. Volmer c.s.	(51) A47L 9/14
VIET, Peter, Sofrides	(31) 102020104995	(11) EP3560402
(74) drs. O. Griebing	(32) 26.02.2020	(21) EP18169777.2
(31) 19192763	(33) Germany	(22) 27.04.2018
(32) 21.08.2019	(47) 19.10.2022	(54) VACUUM CLEANER FILTER BAG WITH
(33) European Patent Office (EPO)	(51) A47J 43/042	FILM IN THE AREA OF THE HOLDING
(47) 19.10.2022	A47J 43/07	PLATE
(51) A46B 9/04	(11) EP3727113	(73) Eurofilters Holding N.V.
A46B 9/02	(21) EP18839617.0	(72) SCHULTINK, Jan
(11) EP3169185	(22) 18.12.2018	SAUER, Ralf
(21) EP15744798.8	(54) DEVICE FOR THE AUTOMATIC	(74) dr. R.C. van Duijvenbode c.s.
(22) 14.07.2015	PREPARATION OF A FOOD PRODUCT	(47) 07.12.2022
(54) ORAL-CARE IMPLEMENT HAVING	AND METHOD OF OFFERING AND/OR	(51) A47L 11/08
COLOR-COMMUNICATIVE ELEMENT	SELLING SUCH A FOOD PRODUCT	A47L 11/26
(73) The Procter & Gamble Company	(73) Crop's Fruit	A47L 11/40
(72) NEWMAN, Matthew Lloyd	(72) DELBAERE, Pieter	B24B 7/18
WEN, Li	(74) ir. W.J.J.M. Kempes	(11) EP3784103
RENO, Elizabeth Ann Brown	(31) 201705959	(21) EP19719614.0
ALINSKI, Jens	(32) 19.12.2017	(22) 23.04.2019
(74) ir. W.J.J.M. Kempes	(33) Belgium	(54) FLOOR TREATMENT MACHINE
(31) 201414331662	(47) 12.10.2022	(73) NUMATIC INTERNATIONAL LIMITED
(32) 15.07.2014	(51) A47K 3/32	(72) WILTSHIRE, Simon
(33) United States of America	B60R 15/02	(74) ir. H.J.G. Lips c.s.
(47) 30.11.2022	B60P 3/34	(31) 201806768
(51) A47B 9/10	(11) EP3977904	(32) 25.04.2018
A47B 9/12	(21) EP21210196.8	(33) United Kingdom
A47B 9/20	(22) 10.03.2020	(47) 21.12.2022
(11) EP3900575	(54) RV RETROFIT SYSTEM	

- (51) A47L 11/30
(11) EP3597094
(21) EP19186883.5
(22) 18.07.2019
(54) ULTRASONIC CLEANING TOOL AND SYSTEM FOR CLEANING A SURFACE
(73) Bissell Inc.
(72) PRUIETT, Jason W.
SCHOLTEN, Jeffrey A.
BOILS, Danielle
YU, Jian Jun
HOFFMAN, Jeremy
(74) ir. H.A. Witmans c.s.
(31) 201862700620 P
(32) 19.07.2018
(33) United States of America
(47) 02.11.2022
-
- (51) A47L 11/40
G01S 17/88
A47L 9/28
(11) EP3478143
(21) EP17846882.3
(22) 16.08.2017
(54) ROBOT CLEANER
(73) Samsung Electronics Co., Ltd.
(72) YOON, Sang Sik
KIM, Shin
KIM, Yong-Seok
KIM, Kyong Su
JUNG, Hyun Soo
ROH, Kyung Shik
(74) dr. R.C. van Duijvenbode c.s.
(31) 20160170239
20160111020
(32) 14.12.2016
30.08.2016
(33) Korea (Republic)
Korea (Republic)
(47) 12.10.2022
-
- (51) A61B 1/303
A61B 1/00
A61B 1/06
A61B 1/32
(11) EP3595506
(21) EP17718284.7
(22) 05.04.2017
(54) LIGHTING MODULE FOR A MEDICAL DEVICE AND METHODS FOR USING THE SAME
(73) Ceek Women's Health, Inc.
(72) LEE, Katie
HARE, Wesley
LALLI, Maria
NI, Jia Lu
THOMPSON, Chase
FREISSLER, Christian
(74) drs. C.M.A. Quintelier
(31) 201715468934
201762473169 P
(32) 24.03.2017
17.03.2017
(33) United States of America
United States of America
(47) 14.12.2022
-
- (51) A61B 1/303
A61B 1/012
A61B 1/00
(11) EP3468443
(21) EP17733225.1
(22) 08.06.2017
(54) MEDICAL DEVICE HANDLES
(73) Boston Scientific Scimed, Inc.
(72) CHU, Michael, S.H.
(74) ir. H.J.G. Lips c.s.
(31) 201715616261
201662347697 P
(32) 07.06.2017
09.06.2016
(33) United States of America
United States of America
(47) 23.11.2022
-
- (51) A61B 5/00
A61B 5/06
A61N 1/36
(11) EP3612083
(21) EP18788381.4
(22) 19.04.2018
(54) SYSTEMS AND METHODS FOR REAL-TIME MONITORING OF PHYSIOLOGICAL BIOMARKERS THROUGH NERVE SIGNALS AND USES THEREOF
(73) The Feinstein Institute for Medical Research
(72) ZANOS, Theodoros
TRACEY, Kevin J.
BOUTON, Chad E.
CHAVAN, Sangeeta
LEVY, Todd
BATTINELLI, Emily
SILVERMAN, Harold
(74) dr. A. Ellens c.s.
(31) 201762487865 P
(32) 20.04.2017
(33) United States of America
(47) 23.11.2022
-
- (51) A61B 5/00
A61B 5/145
(11) EP3578097
(21) EP19172498.8
(22) 27.10.2014
(54) DEVICES USED IN CONNECTION WITH CONTINUOUS ANALYTE MONITORING THAT PROVIDE THE USER WITH ONE OR MORE NOTIFICATIONS
(73) DexCom, Inc.
(72) Hall, Thomas
Koehler, Katherine Yerre
Blackwell, Jennifer
Reihman, Eli
Wightlin, Matthew D.
Bowman, Leif N.
McDaniel, Zebediah L.
(74) ir. W.J.J.M. Kempes
(31) 201361896597 P
(32) 28.10.2013
(33) United States of America
(47) 30.11.2022
-
- (51) A61B 5/00
A61B 5/291
A61B 5/377
(11) EP3820362
(21) EP19753235.1
(22) 03.07.2019
(54) RECORDING ELECTRODE FOR ELECTROPHYSIOLOGICAL SIGNAL MEASUREMENT
(73) DEYMED Diagnostic s.r.o.
(72) MORAVEC, Miroslav
(74) dr. R.C. van Duijvenbode c.s.
(31) 20180339
(32) 09.07.2018
(33) Czech Republic
(47) 26.10.2022
-
- (51) A61B 5/02
A61B 5/0215
A61B 5/00
(11) EP3644846
(21) EP18759003.9
(22) 27.07.2018
(54) SYSTEMS FOR ASSESSING FRACTIONAL FLOW RESERVE
(73) Boston Scientific Scimed, Inc.
(72) LI, Wenguang
(74) ir. A.R. Aalbers
(31) 201762541069 P
(32) 03.08.2017
(33) United States of America
(47) 19.10.2022
-
- (51) A61B 6/03
A61B 6/00
(11) EP3912558
(21) EP20189543.0
(22) 05.08.2020
(54) STROKE DIAGNOSIS APPARATUS BASED ON AI (ARTIFICIAL INTELLIGENCE) AND METHOD
(73) HEURON CO., LTD.
(72) LEE, Seong Joon
KIM, Dohyun
SONG, Soo Hwa
JUNG, Sumin
LEE, Jin Soo
(74) dr. ir. G.J.C. Verdijck c.s.
(31) 20200061088
(32) 21.05.2020
(33) Korea (Republic)
(47) 05.10.2022
-
- (51) A61B 6/03
A61B 6/00
G01T 1/36
G06T 11/00
(11) EP3565472
(21) EP18709126.9
(22) 05.01.2018
(54) ENERGY-DISCRIMINATING PHOTON-COUNTING DETECTOR AND THE USE THEREOF
(73) General Electric Company
(72) JIN, Yannan
RUI, Xue
FU, Geng
EDIC, Peter, Michael
(74) dr. R.C. van Duijvenbode c.s.
(31) 201715400798
(32) 06.01.2017
(33) United States of America
(47) 07.12.2022
-
- (51) A61B 10/00
A63H 27/10
A61B 5/155
A61B 5/15

B65B 3/00	(54) MAGNETIC SWITCHING DEVICE	(72) Tam, Tammy
(11) EP3763296	WITH A SWITCH FORMED BY AN	Ryan, Timothy R.
(21) EP20180804.5	ELECTROCAUTERY PEN	Campbell, Louis
(22) 10.03.2015	(73) Cardiac Lead Technologies, LLC	Glynn, Brian A.
(54) APPARATUS, SYSTEM AND METHOD	(72) CHOE, William	Laske, Timothy
FOR FILLING CONTAINERS WITH	Yoon, Sang, Won	Tabor, Charles
FLUIDS	(74) J.M.H. Duyver lic.	Morrow, Joseph
(73) Tinnus Enterprises, LLC	(31) 227351 P	Rubin, Anne B.
(72) MALONE, Joshua	(32) 21.07.2009	Tuchek, Michael J.
(74) ir. W.J.J.M. Kempes	(33) United States of America	Eberhardt, Carol E.
(31) 201414492487	(47) 05.10.2022	(74) ir. W.J.J.M. Kempes
201461942193 P	(51) A61B 34/20	(31) 7590208 P
201461937083 P	H02G 15/007	6220708 P
(32) 22.09.2014	(11) EP3909537	(32) 26.06.2008
20.02.2014	(21) EP20174670.8	24.01.2008
07.02.2014	(22) 14.05.2020	(33) United States of America
(33) United States of America	(54) TRACKING DEVICE, SURGICAL	United States of America
United States of America	INSTRUMENT COMPRISING SAME,	(47) 21.12.2022
United States of America	AND SURGICAL NAVIGATION SYSTEM	(51) A61F 2/58
(47) 07.12.2022	WITH THE SURGICAL INSTRUMENT	A61F 2/68
(51) A61B 17/34	(73) Stryker European Operations Limited	A61F 2/70
A61B 10/02	(72) MELDER, Ulrich	(11) EP3856089
(11) EP3854330	FREI, Maxi	(21) EP19772800.9
(21) EP21162001.8	(74) J.M.H. Duyver lic.	(22) 13.09.2019
(22) 31.01.2018	(47) 30.11.2022	(54) APPARATUS FOR SUPPORTING A
(54) PUNCTURING INSTRUMENT AND	(51) A61C 5/00	MECHANICAL HAND
PUNCTURING DEVICE	(11) EP3541317	(73) Covvi Limited
(73) Transell Co., Ltd.	(21) EP17804668.6	(72) TAYLOR, Simon David
(72) NAKAMURA, Shuji	(22) 16.11.2017	VARLEY, Edward William
MASAMUNE, Ken	(54) THREE-DIMENSIONAL ORTHODONTIC	(74) dr. A. Krebs
MIKI, Kohei	RETAINER AND METHOD FOR	(31) 201815634
SADO, Katsuyuki	PRODUCING A THREE-DIMENSIONAL	(32) 25.09.2018
TAKAGAWA, Hirokazu	ORTHODONTIC RETAINER	(33) United Kingdom
IWASHIMA, Fumiya	(73) Hostettler, Jürg	(47) 26.10.2022
NABESHIMA, Akihiro	Hostettler, Jonas	(51) A61F 2/66
(74) dr. R.C. van Duijvenbode c.s.	(72) Hostettler, Jürg	A61F 2/68
(31) 2017015795	Hostettler, Jonas	A61F 2/70
2017015767	(31) 15322016	A61F 2/74
2017015764	(32) 21.11.2016	(11) EP3634321
(32) 31.01.2017	(33) Switzerland	(21) EP18729945.8
31.01.2017	(47) 28.09.2022	(22) 06.06.2018
31.01.2017	(51) A61F 2/12	(54) ORTHOPEDIC JOINT DEVICE
(33) Japan	(11) EP3531972	(73) Ottobock SE & Co. KGaA
Japan	(21) EP17791173.2	(72) SIEWERT, Gordon
Japan	(22) 18.10.2017	MÜLLER, André
(47) 30.11.2022	(54) DEVICE TO BE IMPLANTED IN A	KROLL-ORYWAHL, Olaf
(51) A61B 17/88	SUBJECT'S BODY TO FORM AN	(74) dr. R.C. van Duijvenbode c.s.
A61B 17/84	IMPLANT	(31) 102017115267
A61B 17/86	(73) Université de Lille	102017112457
(11) EP3531944	Payen, Julien	(32) 07.07.2017
(21) EP16787431.2	Centre Hospitalier Regional Universitaire	06.06.2017
(22) 25.10.2016	de Lille	(33) Germany
(54) OSSEOUS PIN	(72) DANZE, Pierre-Marie	Germany
(73) Swemac Innovation AB	MARCHETTI, Philippe	(47) 09.11.2022
(72) HANSSON, Henrik	GUERRESCHI, Pierre	(51) A61F 9/007
(74) ir. W.J.J.M. Kempes	PAYEN, Julien	A61F 13/38
(47) 23.11.2022	(74) ir. F.A. Geurts c.s.	(11) EP3470027
(51) A61B 18/12	(31) 1670642	(21) EP18208406.1
A61B 18/14	(32) 28.10.2016	(22) 30.01.2015
A61N 1/08	(33) France	(54) INSTRUMENTS FOR REMOVING
A61N 1/362	(47) 07.12.2022	DEBRIS FROM AN EYE
A61N 1/372	(51) A61F 2/24	(73) Rynerson, James, M.
A61N 1/39	(11) EP3572045	(72) Rynerson, James, M.
(11) EP2456516	(21) EP19182656.9	(74) ir. H.A. Witmans c.s.
(21) EP10802858.0	(22) 23.01.2009	(47) 30.11.2022
(22) 21.07.2010	(54) STENTS FOR PROSTHETIC HEART	(51) A61F 9/008
	VALVES	A61B 90/50
	(73) Medtronic, Inc.	A61F 9/009

A61B 18/20	A61F 13/514	A61P 25/08
A61B 90/00	D04H 3/14	A61P 25/16
A61B 18/22	A61F 13/537	A61P 25/18
A61B 34/30	D04H 3/018	A61P 25/22
(11) EP3743006	D04H 3/16	A61P 25/24
(21) EP19701128.1	D04H 3/147	A61P 25/28
(22) 25.01.2019	A61F 13/51	A61P 25/30
(54) DEVICE AND METHOD FOR	D04H 3/007	A61P 25/36
CONTROLLING THE MOVEMENT OF	(11) EP3576700	(11) EP3302437
AN OCULAR THERAPY APPARATUS	(21) EP18705203.0	(21) EP16800777.1
INCLUDING AN ARTICULATED	(22) 25.01.2018	(22) 27.05.2016
SUPPORT ARM	(54) SHAPED NONWOVEN	(54) STABLE CANNABINOID
(73) Keranova	(73) The Procter & Gamble Company	FORMULATIONS
(72) BOULAROT, Nicolas	(72) SINIGAGLIA, Stefano, Michele	(73) Radius Pharmaceuticals, Inc.
ROMANO, Fabrizio	ASHRAF, Arman	(72) VANGARA, Kiran, Kumar
(74) J.M.H. Duyver lic.	GRENIER, Adrien	LI, Huaguang
(31) 1850578	JAMES, Martin, Ian	YAN, Ningxin
(32) 25.01.2018	WEISMAN, Paul, Thomas	NGUYEN, Hung, Q.
(33) France	(74) ir. W.J.J.M. Kempes	GOSKONDA, Venkat, R.
(47) 05.10.2022	(31) 201762452518 P	(74) dr. R.C. van Duijvenbode c.s.
(51) A61F 13/42	(32) 31.01.2017	(31) 201514815936
(11) EP3487462	(33) United States of America	201514724351
(21) EP17736643.2	(47) 30.11.2022	(32) 31.07.2015
(22) 04.07.2017	(51) A61G 5/10	28.05.2015
(54) SENSING DEVICE AND CHARGING	A61G 5/06	(33) United States of America
SYSTEM	G05D 1/02	United States of America
(73) Essity Hygiene and Health Aktiebolag	B60L 15/10	(47) 16.11.2022
(72) SAUVE, Catherine	(11) EP3443426	(51) A61K 9/48
DHAR, Sameer	(21) EP17734520.4	A61K 9/14
PORTHIYAS, Danny	(22) 13.04.2017	A61K 31/4184
AHONG, Timothy	(54) A TRANSPORTER AND A CONTROL	A61K 47/10
CHRISTENSEN, Stophor	METHOD FOR A TRANSPORTER	A61K 9/16
EDDING, Jacob	(73) DEKA Products Limited Partnership	A61K 9/20
DABOR, Jeremy	(72) COULTER, Stewart, M.	A61K 9/28
IRONSTONE, Joel	KAMEN, Dean	A61K 31/573
MALI, Shyam	PERET, Bob, D.	A61P 35/00
(74) dr. R.C. van Duijvenbode c.s.	KANE, Derek, G.	A61P 35/02
(31) 201662365423 P	(74) ir. W.J.J.M. Kempes	(11) EP2575785
(32) 22.07.2016	(31) 201662322522 P	(21) EP11727917.4
(33) United States of America	(32) 14.04.2016	(22) 01.06.2011
(47) 02.11.2022	(33) United States of America	(54) ORAL DOSAGE FORMS OF
(51) A61F 13/511	(47) 26.10.2022	BENDAMUSTINE AND THERAPEUTIC
D04H 1/54	(51) A61G 7/10	USE THEREOF
D04H 1/541	A61G 7/14	(73) Pharma& Schweiz GmbH
D01F 8/06	(11) EP3220872	(72) PATZAK, Ulrich
D01F 8/14	(21) EP15861570.8	OUATAS, Taoufik
D01D 5/253	(22) 17.11.2015	(74) drs. B. Taneja
D01D 5/26	(54) CEILING LIFT TILT MANAGEMENT	(31) 10005762
D01D 5/34	SYSTEM	11075046
(11) EP3448342	(73) Arjo IP Holding AB	(32) 02.06.2010
(21) EP17723946.4	(72) BRULOTTE, Denis-Alexandre	14.03.2011
(22) 28.04.2017	FAUCHER, Martin	(33) European Patent Office (EPO)
(54) BI-COMPONENT STAPLE OR SHORT-	BOSSÈ, Joel	European Patent Office (EPO)
CUT TRILOBAL FIBRES AND THEIR	(74) ir. W.J.J.M. Kempes	(47) 26.10.2022
USES	(31) 201462080843 P	(51) A61K 31/04
(73) Beaulieu International Group NV	(32) 17.11.2014	A61P 35/00
(72) PINOCA, Leonardo	(33) United States of America	C07D 205/04
BIAGIOTTI, Jerico	(47) 05.10.2022	(11) EP2763667
BEUN, Gillis	(51) A61K 9/127	(21) EP12839088.7
(74) M.A.T. Beck MSc LL.B	A61K 31/352	(22) 18.05.2012
(31) 16195024	A61K 9/08	(54) ORGANONITRO THIOETHER
16167771	A61K 9/00	COMPOUNDS AND MEDICAL USES
(32) 21.10.2016	A61P 1/04	THEREOF
29.04.2016	A61P 3/04	(73) EpicentRx, Inc.
(33) European Patent Office (EPO)	A61P 9/10	(72) SCICINSKI, Jan
European Patent Office (EPO)	A61P 19/02	ORONSKY, Bryan, T.
(47) 12.10.2022	A61P 25/00	(74) ir. W.J.J.M. Kempes
(51) A61F 13/513	A61P 25/04	(31) 201161544378 P

(32) 07.10.2011	A61P 21/00	WUERSCH, Kuno
(33) United States of America	A61P 25/00	WOLF, Armin
(47) 26.10.2022	A61P 29/00	FAIRHURST, Robin Alec
(51) A61K 31/20	(11) EP3459543	MAHL, Andreas Joerg
A61K 31/70	(21) EP17799675.8	(74) dr. R.C. van Duijvenbode c.s.
A23L 33/12	(22) 18.05.2017	(31) 201662416222 P
A61P 25/08	(54) CARBAMATE COMPOUND FOR	(32) 02.11.2016
A61P 25/16	PREVENTING OR TREATING	(33) United States of America
A61P 25/28	FIBROMYALGIA	(47) 23.11.2022
A61P 3/10	(73) SK Biopharmaceuticals Co., Ltd.	(51) A61K 31/506
A61P 43/00	(72) HWANG, Sun Gwan	C07D 401/14
A61K 31/19	YI, Han Ju	A61P 35/02
(11) EP2861226	JO, Min Jae	A61K 9/20
(21) EP13730925.8	(74) ir. A. Blokland c.s.	A61K 9/48
(22) 14.06.2013	(31) 20160061392	(11) EP3429589
(54) NUTRITIONAL PRODUCT	(32) 19.05.2016	(21) EP17766004.0
COMPRISING DECANOIC ACID AND	(33) Korea (Republic)	(22) 17.03.2017
OCTANOIC ACID	(47) 21.12.2022	(54) PHARMACEUTICAL COMPOSITION OF
(73) Vitaflo International Ltd.	(51) A61K 31/4184	NILOTINIB
UCL Business Plc.	A61K 31/506	(73) Sun Pharmaceutical Industries Ltd
(72) O'DONNELL, Maura	(11) EP3463345	(72) JADHAV, Bhushan
LAMBERT, Bridget	(21) EP17807555.2	KULKARNI, Shirish
WALLIS, Patricia	(22) 02.06.2017	KULKARNI, Amol
HEALES, Simon	(54) PHARMACEUTICAL COMBINATIONS	THENNATI, Rajamannar
HUGHES, Sean-David	(73) Array BioPharma Inc.	JAHAGIRDAR, Harshal
CROSS, Helen	(72) CAPONIGRO, Giordano	(74) dr. A. Krebs
EATON, Simon	CAO, Zhu Alexander	(31) 201621009437
RUTHERFORD, Patricia	(74) ir. W.J.J.M. Kempes	(32) 17.03.2016
(74) ir. F.A. Geurts c.s.	(31) 201662345389 P	(33) India
(31) 201210699	(32) 03.06.2016	(47) 14.12.2022
201261704277 P	(33) United States of America	(51) A61K 31/519
(32) 15.06.2012	(47) 02.11.2022	A61P 29/00
21.09.2012	(51) A61K 31/426	A61P 19/02
(33) United Kingdom	A61K 45/06	(11) EP3784243
United States of America	A61P 1/16	(21) EP19724743.0
(47) 02.11.2022	A61P 11/00	(22) 24.04.2019
(51) A61K 31/40	(11) EP3777855	(54) METHOTREXATE FOR USE AS A
A61K 31/167	(21) EP20194458.4	MEDICAMENT
A61K 31/395	(22) 13.03.2017	(73) GF Service S.r.l.
C07D 401/14	(54) METHODS OF TREATMENT FOR	(72) BIANCHI, Federica
C07D 403/14	FIBROTIC DISEASES	BIANCHI, Maria Giovanna
C07D 471/04	(73) Genfit	(74) J.M.H. Duyver lic.
(11) EP3340981	(72) DARTEIL, Raphaël	(31) 201800004922
(21) EP16840121.4	WALCZAK, Robert	(32) 27.04.2018
(22) 25.08.2016	BELANGER, Carole	(33) Italy
(54) ARYL, HETEROARYL, AND	NEGRO, Emilie	(47) 26.10.2022
HETEROCYCLIC COMPOUNDS	DAUBERSIES, Pierre	(51) A61K 31/7068
FOR TREATMENT OF MEDICAL	DELATAILLE, Philippe	A61K 9/00
DISORDERS	(74) J.M.H. Duyver lic.	A61M 31/00
(73) Achillion Pharmaceuticals, Inc.	(31) 16305425	A61P 13/02
(72) PHADKE, Avinash, S.	(32) 11.04.2016	A61P 13/10
AGARWAL, Atul	(33) European Patent Office (EPO)	A61P 35/00
GADHACHANDA, Venkat, Rao	(47) 19.10.2022	A61P 35/04
HASHIMOTO, Akihiro	(51) A61K 31/4545	A61K 45/06
WANG, Qiuping	A61K 31/506	(11) EP3452053
WANG, Xiangzhu	A61P 35/00	(21) EP17793523.6
WILES, Jason, Allan	A61K 45/06	(22) 05.05.2017
PAIS, Godwin	(11) EP3534902	(54) METHOD OF TREATING LOWER
CHEN, Dawei	(21) EP17812269.3	TRACT UROTHELIAL CANCER
DESHPANDE, Milind	(22) 01.11.2017	(73) TARIS Biomedical LLC
(74) ir. W.J.J.M. Kempes	(54) COMBINATIONS OF FGFR4	(72) LARRIVEE-ELKINS, Cheryl
(31) 201562209972 P	INHIBITORS AND BILE ACID	SEARCY, Christopher
(32) 26.08.2015	SEQUESTRANTS	CUTIE, Christopher
(33) United States of America	(73) Novartis AG	GIESING, Dennis
(47) 12.10.2022	(72) GRAUS PORTA, Diana	AGARWAL, Vikas
(51) A61K 31/41	KINYAMU-AKUNDA, Jacqueline	SARMA, Purnanand
A61K 31/16	MANENTI, Luigi	(74) dr. R.C. van Duijvenbode c.s.
A61K 9/00	WEISS, Andreas	(31) 201762443614 P

- 201662333151 P
(32) 06.01.2017
06.05.2016
(33) United States of America
United States of America
(47) 14.12.2022
-
- (51) A61K 33/14
A61K 31/7072
A61K 45/06
A61K 9/00
A61K 9/08
A61K 47/12
A61P 7/00
A61P 43/00
(11) EP3503899
(21) EP17764459.8
(22) 23.08.2017
(54) PRODUCT AND METHOD
FOR INCREASING URIDINE
CONCENTRATION IN BLOOD PLASMA
(73) N.V. Nutricia
(72) HAGEMAN, Robert Johan Joseph
(74) dr. R.C. van Duijvenbode c.s.
(31) PCT/NL2016/050587
(32) 23.08.2016
(33) World Intellectual Property Office (WIPO)
(47) 23.11.2022
-
- (51) A61K 35/74
A61K 35/744
A61K 35/747
C12N 1/20
A61P 1/12
A61P 31/12
(11) EP3209307
(21) EP15784636.1
(22) 21.10.2015
(54) PROBIOTIC AND PREBIOTIC
COMPOSITIONS
(73) Aquilon Cyl Sociedad Limitada
Universidad De León
(72) RUBIO NISTAL, Pedro Miguel
CARVAJAL URUEÑA, Ana Maria
GARCÍA DÍEZ, Marta
(74) dr. ir. F.M. van Bouwelen
(31) 14382412
(32) 21.10.2014
(33) European Patent Office (EPO)
(47) 05.10.2022
-
- (51) A61K 35/741
A23K 50/30
A23K 50/60
A23K 10/18
A61P 1/00
(11) EP3501526
(21) EP17210273.3
(22) 22.12.2017
(54) USE OF CORIOBACTERIIA TO
PROMOTE GUT HEALTH
(73) DSM Austria GmbH
(72) Schatzmayr, Dian
Binder, Eva Maria
Nagl, Veronika
Schatzmayr, Gerd
(74) mr. ir. J. van Breda c.s.
(47) 02.11.2022
-
- (51) A61K 38/07
C07K 5/10
A61P 25/04
(11) EP3442557
(21) EP17782756.5
(22) 13.04.2017
(54) A DRUG FORMULATION FOR USE IN
THE EFFECTIVE CONTROL OF ACUTE
AND/OR CHRONIC PAIN
(73) PVP Labs PTE. Ltd.
(72) KOSORUKOV, Vyacheslav
Stanislavovich
RZHANINOV, Evgeny Stanislavovich
KOROBOV, Nikolai Vasilievich
(74) ir. A. Blokland c.s.
(31) 2016133329
10201602973W
(32) 12.08.2016
14.04.2016
(33) Russian Federation
Singapore
(47) 05.10.2022
-
- (51) A61K 38/12
A61K 47/36
A61P 31/00
(11) EP3528830
(21) EP17791037.9
(22) 20.10.2017
(54) POLYMYXIN-ALGINATE OLIGOMER
CONJUGATES
(73) Algipharma AS
(72) FERGUSON, Elaine
THOMAS, David William
DESSEN, Arne
RYE, Philip
(74) J.M.H. Duyver lic.
(31) 201714710
201617860
(32) 13.09.2017
21.10.2016
(33) United Kingdom
United Kingdom
(47) 05.10.2022
-
- (51) A61K 38/19
A61K 39/00
A61K 9/19
A61K 47/10
A61K 47/26
(11) EP3744319
(21) EP19177024.7
(22) 28.05.2019
(54) A STABLE LYOPHILIZED
FORMULATION FOR HYBRID FC
FUSED G-CSF
(73) Ilkogen Ilac Sanayi Ve Ticaret A.S.
(72) Öncel, Hatice
Daglikoca, Emine Duygu
Sahin, Adem
Çorbacioglu Pala, Meltem
Özkan, Aylin
Pinarbasli, Onur
Sarracoglu, Nagehan
(74) ir. W.J.J.M. Kempes
(47) 19.10.2022
-
- (51) A61K 39/12
A61K 39/00
(11) EP3035958
(21) EP14761742.7
(22) 20.08.2014
(54) PORCINE CIRCOVIRUS TYPE 2 (PCV2)
SUBUNIT VACCINE
(73) Boehringer Ingelheim Animal Health USA
Inc.
(72) EICHMEYER, Marc Allan
MUEHLENTHALER, Christine Margaret
HERNANDEZ, Luis Alejandro
HAIWICK, Gregory
VAUGHN, Eric Martin
JOHNSON, Wesley Scott
(74) ir. F.A. Geurts c.s.
(31) 201361869353 P
(32) 23.08.2013
(33) United States of America
(47) 26.10.2022
-
- (51) A61K 39/12
A61K 39/285
C07K 16/28
C12N 15/39
C12N 15/62
C12N 15/863
G01N 33/68
(11) EP3445397
(21) EP17786694.4
(22) 21.04.2017
(54) INTEGRAL MEMBRANE PROTEIN
DISPLAY ON POXVIRUS
EXTRACELLULAR ENVELOPED
VIRIONS
(73) Vaccinex, Inc.
(72) SMITH, Ernest S.
PARIS, Mark
CORNELISON, Angelica A.
SCRIVENS, Maria G. M.
KIRK, Renee A.
(74) ir. J.C. Volmer c.s.
(31) 201662326501 P
(32) 22.04.2016
(33) United States of America
(47) 09.11.2022
-
- (51) A61K 39/155
A61K 39/245
C12N 15/86
C12N 15/88
(11) EP4005592
(21) EP21204155.2
(22) 06.07.2011
(54) VIRION-LIKE DELIVERY PARTICLES
FOR SELF-REPLICATING RNA
MOLECULES
(73) GlaxoSmithKline Biologicals S.A.
(72) GEALL, Andrew
MANDL, Christian
O'HAGAN, Derek
SINGH, Manmohan
(31) 36182810 P
(32) 06.07.2010
(33) United States of America
(47) 12.10.2022
-
- (51) A61K 39/39
A61K 9/127
(11) EP4066856
(21) EP22174931.0
(22) 31.08.2011
(54) PEGYLATED LIPOSOMES FOR
DELIVERY OF IMMUNOGEN-
ENCODING RNA
(73) GlaxoSmithKline Biologicals SA
(72) VERMA, Ayush
GEALL, Andrew

(31) 37882610 P	(22) 07.12.2017	(73) Terumo BCT, Inc.
(32) 31.08.2010	(54) DEODORIZING COMPOSITIONS,	TERUMO Kabushiki Kaisha
(33) United States of America	ESPECIALLY IN COMBINATION WITH	(72) BENZ, Debis
(47) 07.12.2022	OSTOMY DEVICES	IGARASHI, Masatsugu
(51) A61K 48/00	(73) Emory University	(74) J.M.H. Duyver lic.
A61K 9/127	(72) TIMMS, Cynthia	(31) 2018206654
A61K 39/00	BRACKEN, Ronald	(32) 01.11.2018
A61K 9/00	(74) dr. R.C. van Duijvenbode c.s.	(33) Japan
A61P 31/04	(31) 201662431141 P	(47) 23.11.2022
A61P 31/10	(32) 07.12.2016	(51) A61M 1/30
A61P 31/12	(33) United States of America	A61M 1/38
A61P 33/00	(47) 23.11.2022	A61M 1/02
A61P 37/04	(51) A61L 27/18	A61M 1/36
C12N 15/88	A61L 29/06	(11) EP3860677
(11) EP4008357	A61L 31/06	(21) EP19801426.8
(21) EP21208092.3	(11) EP3833408	(22) 21.10.2019
(22) 31.08.2011	(21) EP19762321.8	(54) BIOLOGICAL COMPONENT
(54) SMALL LIPOSOMES FOR DELIVERY	(22) 07.08.2019	COLLECTION SYSTEM AND CIRCUIT
OF IMMUNOGEN-ENCODING RNA	(54) AN IMPLANTABLE BIOMATERIAL,	INTERNAL PRESSURE ACQUISITION
(73) GlaxoSmithKline Biologicals SA	AND METHOD OF MANUFACTURING	METHOD
(72) GEALL, Andrew	THEREOF	(73) TERUMO Kabushiki Kaisha
VERMA, Ayush	(73) National University of Ireland, Galway	Terumo BCT, Inc.
(31) 37883110 P	(72) MARRINAN, Brendan	(72) BENZ, Debis
(32) 31.08.2010	O'HALLORAN, Tony	IGARASHI, Masatsugu
(33) United States of America	SHARIF, Faisal	(74) J.M.H. Duyver lic.
(47) 28.12.2022	SANDER, Elizabeth	(31) 2018206645
(51) A61L 2/10	PENDLEBURY, Robert	(32) 01.11.2018
(11) EP3950009	HICKEY, William	(33) Japan
(21) EP21191961.8	(74) J.M.H. Duyver lic.	(47) 30.11.2022
(22) 19.02.2019	(31) 18187715	(51) A61M 5/162
(54) METHOD OF DESTROYING	(32) 07.08.2018	A61M 5/178
PATHOGENS	(33) European Patent Office (EPO)	A61M 5/20
(73) Freestyle Partners, LLC	(47) 05.10.2022	A61M 5/19
(72) ROSEN, Jennifer K.	(51) A61L 27/34	A61M 5/24
FEENEY, Benjamin X.	A61L 27/36	A61J 1/14
(74) dr. R.C. van Duijvenbode c.s.	A61L 27/38	A61J 1/20
(31) 201862694482 P	A61F 2/04	A61M 39/00
201862632716 P	A61F 2/06	(11) EP3813904
(32) 06.07.2018	A61F 2/82	(21) EP19732388.4
20.02.2018	B29L 23/00	(22) 26.06.2019
(33) United States of America	(11) EP2661243	(54) DEVICE FOR FORMING A MEDICAL
United States of America	(21) EP12731951.5	PASTE
(47) 05.10.2022	(22) 06.01.2012	(73) Ferrosan Medical Devices A/S
(51) A61L 2/10	(54) TISSUE-ENGINEERED CONSTRUCTS	(72) LARSEN, Kristian
A61L 9/20	(73) Humacyte, Inc.	HAMMERSHØJ, Peter, Lund
(11) EP3755384	(72) NIKLASON, Laura E.	(74) ir. W.J.J.M. Kempes
(21) EP19756528.6	STRADER, Justin T.	(31) 18180033
(22) 19.02.2019	TENTE, William E.	(32) 27.06.2018
(54) PORTABLE FAR-UVC DEVICE	PRICHARD, Heather L.	(33) European Patent Office (EPO)
(73) Freestyle Partners, LLC	LUNDQUIST, Joseph J.	(47) 09.11.2022
(72) ROSEN, Jennifer K.	DAHL, Shannon L.M.	(51) A61M 16/00
FEENEY, Benjamin X.	BLUM, Juliana	(11) EP3259000
(74) dr. R.C. van Duijvenbode c.s.	(74) ir. W.J.J.M. Kempes	(21) EP16771498.9
(31) 201862694482 P	(31) 201161430381 P	(22) 31.03.2016
201862632716 P	(32) 06.01.2011	(54) APPARATUS FOR HIGH GAS FLOW
(32) 06.07.2018	(33) United States of America	(73) Fisher & Paykel Healthcare Limited
20.02.2018	(47) 12.10.2022	(72) CONNOLLY, Nicholas Simon David
(33) United States of America	(51) A61M 1/30	PAYTON, Matthew Jon
United States of America	A61M 1/38	WHITE, Craig Karl
(47) 30.11.2022	A61M 1/02	NOURAEI, Seyed Ahmad Reza
(51) A61L 9/01	A61M 1/36	KEOGH, Geraldine Frances
A61L 28/00	(11) EP3860676	EVANS, Alicia Jerram Hunter
A61L 9/013	(21) EP19801121.5	PATEL, Anil
A61L 9/014	(22) 21.10.2019	(74) ir. W.J.J.M. Kempes
A61F 5/441	(54) BIOLOGICAL COMPONENT	(31) 201562232231 P
A61F 5/445	COLLECTION SYSTEM AND CIRCUIT	201562140727 P
(11) EP3551238	INTERNAL PRESSURE ACQUISITION	(32) 24.09.2015
(21) EP17878256.1	METHOD	31.03.2015

(33) United States of America United States of America (47) 09.11.2022	(73) Coagulant Therapeutics Corporation (72) Hermiston, Terry Bauzon, Maxine (74) dr. A. Krebs (31) EP3448530 201361787026 P 201261745674 P (32) 15.03.2013 24.12.2012 (33) United States of America United States of America (47) 14.12.2022	(47) 30.11.2022 (51) B01D 53/04 A61M 16/00 B01J 20/34 A61M 16/10 (11) EP3183049 (21) EP15771217.5 (22) 20.08.2015 (54) IMPROVEMENTS TO HALOCARBON RECYCLING METHODS AND SYSTEMS (73) Sagetech Medical Equipment Limited (72) BROWN, Sebastian Matthew (74) dr. R.C. van Duijvenbode c.s. (31) 201414820 (32) 20.08.2014 (33) United Kingdom (47) 12.10.2022
(51) A61M 16/00 A61M 16/04 A61M 16/08 A61M 16/10 A61M 16/12 A61M 16/14 (11) EP3651843 (21) EP18832429.7 (22) 09.07.2018 (54) MOISTURE REMOVAL AND CONDENSATION AND HUMIDITY MANAGEMENT APPARATUS FOR A BREATHING CIRCUIT (73) Medline Industries, LP (72) JACKSON, Christopher S. DWYER, Daniel P. (74) J.M.H. Duyver lic. (31) 201762530631 P (32) 10.07.2017 (33) United States of America (47) 07.12.2022	(51) A62C 4/00 (11) EP3448530 (21) EP17721448.3 (22) 28.04.2017 (54) FLAME ARRESTERS (73) Elmac Technologies Limited (72) BINGHAM, Lewis HONG, Daomin (74) dr. A. Krebs (31) 201607505 (32) 29.04.2016 (33) United Kingdom (47) 26.10.2022	(51) B01D 53/40 B01D 53/46 B01D 53/48 B01D 53/52 B01D 53/62 B01D 53/96 (11) EP3506994 (21) EP17844696.9 (22) 01.09.2017 (54) COMBINED ACIDIC GAS CAPTURE AND WATER EXTRACTION PROCESS (73) Commonwealth Scientific and Industrial Research Organisation (72) FERON, Paul, Hubert, Maria COUSINS, Ashleigh, Jane THIRUVENKATACHARI, Ramesh (74) ir. W.J.J.M. Kempes (31) 2016903512 (32) 02.09.2016 (33) Australia (47) 30.11.2022
(51) A61M 16/08 (11) EP3335756 (21) EP17195173.4 (22) 10.08.2012 (54) CONDUIT CONNECTOR FOR A PATIENT BREATHING DEVICE (73) Fisher & Paykel Healthcare Limited (72) Ronayne, Michael Gulliver, Laurence Irving, Charles (74) ir. W.J.J.M. Kempes (31) 201161521972 P (32) 10.08.2011 (33) United States of America (47) 12.10.2022	(51) A62C 13/76 A62C 37/36 G08B 17/00 A62C 13/62 A62C 37/50 (11) EP3781270 (21) EP19724619.2 (22) 15.04.2019 (54) INSPECTION SYSTEM FOR MAINTENANCE FREE FIRE EXTINGUISHING DEVICES (73) Kammer, Peter (72) Kammer, Peter (31) 18170028 18167559 (32) 30.04.2018 16.04.2018 (33) European Patent Office (EPO) European Patent Office (EPO) (47) 05.10.2022	(51) B01D 61/14 B01D 61/18 B01D 63/08 C07K 1/34 B01D 65/02 (11) EP3693080 (21) EP20167074.2 (22) 15.06.2015 (54) SINGLE-PASS FILTRATION SYSTEMS AND PROCESSES (73) EMD Millipore Corporation (72) PARRELLA, Joseph RAGHUNATH, Bala LUTZ, Herbert (74) dr. R.C. van Duijvenbode c.s. (31) 201462012792 P (32) 16.06.2014 (33) United States of America (47) 16.11.2022
(51) A61M 25/00 A61F 5/451 (11) EP2688629 (21) EP12713441.9 (22) 13.03.2012 (54) URINE COLLECTION ASSEMBLY AND METHOD OF MANUFACTURE THEREOF (73) Hollister Incorporated (72) Hannon David JENSEN, Bent CREAVEN, Martin, P. O'BRIEN, Daniel MURRAY, Michael (74) ir. W.J.J.M. Kempes (31) 201161467679 P (32) 25.03.2011 (33) United States of America (47) 14.12.2022	(51) A62C 37/50 A62C 35/68 F16K 31/06 G08B 17/04 F16K 37/00 F16K 27/02 A62C 37/46 A62C 35/02 (11) EP3455530 (21) EP17796631.4 (22) 08.05.2017 (54) SOLENOID WITH SUPERVISION SWITCH (73) TLX Technologies, LLC. (72) SCHWOBE, Patrick Thomas SHIMON, Benjamin Nathan DAHLGREN, Derek Arvid (74) dr. R.C. van Duijvenbode c.s. (31) 201615352379 201615151707 (32) 15.11.2016 11.05.2016 (33) United States of America United States of America	(51) B01F 23/53 B01F 27/271 (11) EP3887030 (21) EP20700885.5 (22) 14.01.2020 (54) ROTOR FOR A DEVICE FOR MIXING POWDER AND LIQUID, AND DEVICE FOR MIXING POWDER AND LIQUID (73) Ystral GmbH Maschinenbau + Processtechnik

(72) MANKE, David SEEGER, Hanspeter	(54) STRUCTURED PACKING ELEMENTS FORMED BY A FLAT PLATE PROVIDED WITH NOTCHES AND RECESSES	F21K 9/64 F21V 9/30 F21V 9/32
(74) ir. H.A. Witmans c.s.	(73) AXENS	(11) EP3774091
(31) 102019102585	(72) LAMBERT, Nicolas	(21) EP19709763.7
(32) 01.02.2019	(74) ir. W.J.J.M. Kempes	(22) 22.03.2019
(33) Germany	(31) 1758446	(54) SYSTEM FOR PLANAR UV-C BASED BIOFOULING PREVENTION
(47) 07.12.2022	(32) 12.09.2017	(73) Koninklijke Philips N.V.
(51) B01J 2/14	(33) France	(72) JONGERIUS, Michiel, Johannes
B01J 2/18	(47) 19.10.2022	(74) drs. O. Griebing
B29B 9/08	(51) B01J 19/32	(31) 18164192
(11) EP3912715	B01D 3/28	(32) 27.03.2018
(21) EP21173439.7	B01D 3/00	(33) European Patent Office (EPO)
(22) 11.05.2021	(11) EP3436189	(47) 19.10.2022
(54) MATERIAL PREPARATION METHOD FOR INJECTION MOULDING, EXTRUSION AND/OR THERMOFORMING	(21) EP17710573.1	(51) B09B 3/00
(73) Refork SE	(22) 17.03.2017	B03B 9/06
(72) Faltus, Milos	(54) CONTACTOR	B09B 5/00
Proksan, Zbynek	(73) Hirschberg Engineering AG	C04B 18/16
(74) dr. R.C. van Duijvenbode c.s.	(72) HIRSCHBERG, Sebastian	G06Q 10/00
(31) 20200274	(74) ir. W.J.J.M. Kempes	C04B 28/00
(32) 15.05.2020	(31) 16163271	C04B 28/04
(33) Czech Republic	(32) 31.03.2016	(11) EP3860775
(47) 09.11.2022	(33) European Patent Office (EPO)	(21) EP19828861.5
(51) B01J 2/16	(47) 05.10.2022	(22) 30.09.2019
(11) EP3768416	(51) B01J 37/02	(54) METHOD AND SYSTEM TO CONVERT DEMOLISHED CONCRETE INTO A READILY RECYCLABLE PRODUCT
(21) EP19711917.5	B01J 27/188	(73) C2CA Technology B.V.
(22) 21.03.2019	B01J 27/19	(72) DI MAIO, Francesco
(54) FLUID-BED GRANULATOR SYSTEM WITH COATING MATERIAL TO PREVENT DUST BUILDUP IN THE AIR SYSTEMS OF UREA GRANULATION PLANTS	C10G 45/08	BANERJEE, Shyama Prasad
(73) thyssenkrupp Fertilizer Technology GmbH	C10G 49/04	REM, Peter Carlo
thyssenkrupp AG	B01J 38/52	GEBREMARIAM, Abraham Teklay
(72) FRANZRAHE, Harald	B01J 38/62	BERKHOUT, Simon Petrus Maria
POTTHOFF, Matthias	B01J 31/06	HERMANS, Giel
GRULKE, Andreas	B01J 35/10	(74) mr. ir. J. van Breda c.s.
(74) dr. R.C. van Duijvenbode c.s.	B01J 37/20	(31) 2021751
(31) 18175723	(11) EP2906344	(32) 03.10.2018
18163504	(21) EP13776996.4	(33) Netherlands
(32) 04.06.2018	(22) 07.10.2013	(47) 09.11.2022
23.03.2018	(54) SUPPORTED HYDROTREATING CATALYSTS HAVING ENHANCED ACTIVITY	(51) B21C 37/08
(33) European Patent Office (EPO)	(73) Albemarle Europe Sprl.	B21H 8/00
European Patent Office (EPO)	(72) VAN OENE, Johan	B21D 5/12
(47) 09.11.2022	VOGELAAR, Bastiaan Maarten	B23D 15/06
(51) B01J 19/22	TROMP, Henk Jan	C21D 9/46
B01J 19/14	BERGWERFF, Jacob Arie	C21D 1/34
(11) EP3496849	(74) J.M.H. Duyver lic.	(11) EP3785816
(21) EP17757561.0	(31) 201261712108 P	(21) EP18933897.3
(22) 08.08.2017	(32) 10.10.2012	(22) 26.12.2018
(54) ARRANGEMENT FOR CONTINUOUS PRODUCTION OF POLYMER	(33) United States of America	(54) EMBOSSED STAINLESS PIPE MANUFACTURING APPARATUS AND EMBOSSED STAINLESS PIPE MANUFACTURING METHOD USING SAME
(73) Kemira Oyj	(47) 07.12.2022	(73) Lee, Changyub
(72) GOULT, David	(51) B07B 1/28	Lee, Bohyun
NAYLOR, Simon	B07B 1/42	(72) Lee, Bohyun
TUFF, Dave	(11) EP3463692	Lee, Changyub
(74) ir. W.J.J.M. Kempes	(21) EP17731071.1	(74) dr. R.C. van Duijvenbode c.s.
(31) 20165607	(22) 24.05.2017	(31) 20180112755
(32) 08.08.2016	(54) A SCREENING MACHINE FOR SCREENING MATERIAL ACCORDING TO SIZE	(32) 20.09.2018
(33) Finland	(73) Finbawn Ltd	(33) Korea (Republic)
(47) 05.10.2022	(72) NABERG, Ralph	(47) 07.12.2022
(51) B01J 19/32	(74) J.M.H. Duyver lic.	(51) B22F 10/20
(11) EP3453449	(31) 16171447	B22F 10/30
(21) EP18191613.1	(32) 25.05.2016	C22F 1/047
(22) 30.08.2018	(33) European Patent Office (EPO)	C22C 21/06
	(47) 28.09.2022	C22C 21/08
	(51) B08B 7/00	
	B08B 17/00	
	E02B 17/00	

(11) EP3732310	201816107842	(11) EP3294506
(21) EP18836367.5	(32) 23.01.2019	(21) EP16831005.0
(22) 21.12.2018	19.09.2018	(22) 06.07.2016
(54) ALUMINIUM ALLOY	21.08.2018	(54) MANDOLINE-TYPE FOOD SLICER
(73) Fehrmann Alloys GmbH & Co. Kg	(33) United States of America	(73) Helen of Troy Limited
(72) FEHRMANN, Henning	United States of America	(72) CHANG, Hyuk, Jae
(74) J.M.H. Duyver lic.	United States of America	COLBURN, Eric, Richard
(31) 17210900	(47) 26.10.2022	MOR, Mackenzie
(32) 28.12.2017	(51) B25J 9/16	(74) ir. F.A. Geurts c.s.
(33) European Patent Office (EPO)	G06F 3/01	(31) 201562196533 P
(47) 12.10.2022	G05D 1/00	(32) 24.07.2015
(51) B22F 10/28	(11) EP3178617	(33) United States of America
B22F 12/00	(21) EP16161314.6	(47) 26.10.2022
B22F 12/86	(22) 21.03.2016	(51) B26F 1/38
B29C 64/153	(54) HYBRID REALITY BASED I-BOT	B26D 1/00
B29C 64/259	NAVIGATION AND CONTROL	D21F 9/00
B33Y 10/00	(73) Tata Consultancy Services Ltd.	B29C 43/46
B33Y 30/00	(72) VERMA, Arvind	B31D 5/02
B22F 12/70	TOMMY, Robin	D21J 5/00
(11) EP3600726	DESHMUKH, Lokesh	B29C 51/00
(21) EP18709590.6	BHATIA, Aaditya	B29C 51/44
(22) 08.03.2018	CHAKRABORTY, Kaustav	B29C 51/10
(54) APPARATUS AND METHOD	(74) dr. ir. G.J.C. Verdijck c.s.	B29C 43/02
FOR MANUFACTURING THREE	(31) 4671MU2015	B31B 50/59
DIMENSIONAL WORKPIECES	(32) 11.12.2015	B29L 31/28
(73) SLM Solutions Group AG	(33) India	B29K 1/00
(72) KROL, Toni Adam	(47) 02.11.2022	(11) EP3969659
ROLINK, Gesa	(51) B25J 11/00	(21) EP20726387.2
HAACK, Bodo	B62D 55/065	(22) 14.05.2020
HOPPE, Birk	B62D 55/24	(54) A METHOD FOR PRODUCING
(74) ir. H.A. Witmans c.s.	(11) EP3504118	CELLULOSE PRODUCTS AND A
(31) 102017205027	(21) EP17844012.9	ROTARY FORMING MOULD SYSTEM
(32) 24.03.2017	(22) 24.08.2017	(73) PulPac AB
(33) Germany	(54) HOLDING MEANS FOR HOLDING AN	(72) LARSSON, Ove
(47) 19.10.2022	APPARATUS AGAINST A METALLIC	GUIDOTTI, Edward
(51) B23K 20/12	SURFACE	LARSSON, Linus
B23K 20/22	(73) Remotion AS	HÖGBLOM, Olle
(11) EP3980215	(72) URRANG, Morten	(74) dr. R.C. van Duijvenbode c.s.
(21) EP20838988.2	(74) ir. A. Blokland c.s.	(31) 1950584
(22) 19.12.2020	(31) 20161367	(32) 16.05.2019
(54) FRICTION STIR WELDING TOOL	(32) 26.08.2016	(33) Sweden
INSERT WITH A PCBN-BASED	(33) Norway	(47) 05.10.2022
MATERIAL HAVING A TEXTURED	(47) 05.10.2022	(51) B28B 17/00
SURFACE LAYER	(51) B26D 3/26	B28B 23/02
(73) ELEMENT SIX (UK) LIMITED	B26D 3/30	E04C 5/20
(72) SCARSBROOK, Geoffrey Alan	B26D 7/01	B28B 23/00
RODRIGUEZ SUAREZ, Teresa	B26D 7/06	(11) EP3517268
CANN, Maria Louise	(11) EP3221100	(21) EP19155066.4
PFAFF, Josquin	(21) EP15797979.0	(22) 11.08.2016
(74) ir. F.A. Geurts c.s.	(22) 17.11.2015	(54) INSTALLATION DEVICE
(31) 201918891	(54) CUTTING APPARATUS FOR CUTTING	(73) Progress Holding A.G.
(32) 19.12.2019	VEGETABLE FOOD PRODUCTS	(72) STOFNER, Helmut
(33) United Kingdom	(73) Finis Foodprocessing Equipment BV	(74) J.M.H. Duyver lic.
(47) 19.10.2022	(72) VAN RAAIJ, Antony Henri Lucy Otto	(31) 507262015
(51) B25B 27/02	Marie Josephe	(32) 17.08.2015
B25B 27/14	(74) ir. A.R. Aalbers	(33) Austria
B25B 27/18	(31) 14193666	(47) 19.10.2022
B25B 27/04	(32) 18.11.2014	(51) B29C 64/135
(11) EP3814060	(33) European Patent Office (EPO)	B29C 64/153
(21) EP19852303.7	(47) 26.10.2022	B29C 64/393
(22) 25.07.2019	(51) B26D 3/28	B33Y 10/00
(54) FASTENER EXTRACTOR DEVICE	A47J 43/20	B33Y 50/02
(73) Grip Holdings LLC	A47J 43/25	B22F 10/20
(72) KUKUCKA, Thomas Stefan	B26D 1/02	B22F 10/10
KUKUCKA, Paul	B26D 1/03	B22F 10/85
(74) ir. W.J.J.M. Kempes	B26D 3/12	(11) EP3519156
(31) 201916255341	B26D 3/24	(21) EP17780968.8
201862733507 P	B26D 7/26	(22) 26.09.2017

(54) ENERGY DENSITY MAPPING IN ADDITIVE MANUFACTURING	C08J 5/18 C08J 9/32	VAN KASTEREN, Hubertus Hendrikes Adrianus
(73) Materialise NV	(11) EP3569410	(74) ir. A. Blokland c.s.
(72) PAVAN, Michele	(21) EP18175051.4	(31) 2017415
(33) CRAEGHS, Tom	(22) 30.05.2018	(32) 05.09.2016
VAN DEN ECKER, Piet	(54) AGRICULTURE COVERING FILM	(33) Netherlands
(74) dr. R.C. van Duijvenbode c.s.	FOR GREENHOUSES WITH HIGH IR	(47) 05.10.2022
(31) 201662400392 P	EFFECTIVENESS, AND SHIELDING	(51) B60H 1/00
(32) 27.09.2016	EFFECT TO N.I.R. RADIATIONS,	B60H 1/03
(33) United States of America	GAINED WITH UTILIZATION OF	F24F 3/147
(47) 16.11.2022	HOLLOW GLASS MICROSPHERES,	F28D 9/00
(51) B29D 99/00	AND RELEVANT PRODUCTION	F28D 21/00
B29C 70/30	METHOD	(11) EP3271676
(11) EP3482923	(73) Agriplast S.r.l.	(21) EP16721930.2
(21) EP18207660.4	(72) CASCONE, Marco	(22) 17.03.2016
(22) 29.04.2015	(74) J.M.H. Duyver lic.	(54) EXCHANGE ELEMENT FOR
(54) FABRIC JACKETED UNIDIRECTIONAL	(31) 201800005317	PASSENGER CABIN AND PASSENGER
NOODLE	(32) 14.05.2018	CABIN EQUIPPED WITH SUCH AN
(73) The Boeing Company	(33) Italy	EXCHANGE ELEMENT
(72) ANDRYUKOV, Vladislav A	(47) 09.11.2022	(73) Zehnder Group International AG
ZARFOS, Joshua	(51) B33Y 10/00	(72) HIRSCH, Christian
CAMPBELL, Darrell D	B33Y 30/00	(74) ir. W.J.J.M. Kempes
(74) dr. R.C. van Duijvenbode c.s.	B22F 3/105	(31) 1012016
(31) 201414340982	B29C 64/153	5482015
(32) 25.07.2014	B29C 64/218	3872015
(33) United States of America	B29C 64/241	(32) 16.12.2015
(47) 07.12.2022	B22F 10/20	21.04.2015
(51) B32B 5/14	B22F 12/00	17.03.2015
B32B 27/12	B29C 64/135	(33) Switzerland
B32B 27/30	(11) EP3263338	Switzerland
B32B 27/32	(21) EP17178266.7	Switzerland
B32B 3/26	(22) 28.06.2017	(47) 05.10.2022
B32B 3/30	(54) METHOD FOR GENERATING A	(51) B60K 7/00
D06N 7/00	THREE-DIMENSIONAL OBJECT	(11) EP3980287
E04F 15/10	(73) EOS GmbH Electro Optical Systems	(21) EP20740162.1
(11) EP3538359	(72) PERRET, Hans	(22) 08.06.2020
(21) EP17804462.4	MARKL, Stefanie	(54) OMNIDIRECTIONAL WHEEL HUB
(22) 03.11.2017	(74) dr. ir. G.J.C. Verdijck c.s.	DRIVE
(54) PROCESS FOR THE PRODUCTION OF	(31) 102016211949	(73) Agilox Systems GmbH
LAMINATE COMPOSITE MATERIALS	(32) 30.06.2016	(72) SCHWAIGER, Meinhard
(73) Johns Manville Europe GmbH	(33) Germany	(74) ir. H.J.G. Lips c.s.
(72) ECKERT, Bernhard	(47) 05.10.2022	(31) 601452019
(74) ir. F.A. Geurts c.s.	(51) B42D 9/00	(32) 08.06.2019
(31) 102016013314	B42D 9/04	(33) Austria
(32) 08.11.2016	(11) EP3750715	(47) 28.09.2022
(33) Germany	(21) EP19179439.5	(51) B60L 3/00
(47) 19.10.2022	(22) 11.06.2019	B60L 3/04
(51) B32B 17/10	(54) BENDING SYSTEM, ENGRAVE	B60L 53/10
G02B 5/02	SYSTEM AND VALUE DOCUMENT	B60L 53/30
(11) EP3542195	MANUFACTURING DEVICE	B60L 53/31
(21) EP17714411.0	(73) IAI industrial systems B.V.	H02J 7/00
(22) 24.03.2017	(72) Peters, Maikel	H02J 7/34
(54) TUNABILITY IN SUN-LIGHT IMITATING	Verheijen, Johannes Hendrikus Antonius	(11) EP3589513
LIGHTING SYSTEMS	(74) dr. R.C. van Duijvenbode c.s.	(21) EP18708127.8
(73) CoeLux S.r.l.	(47) 26.10.2022	(22) 05.03.2018
(72) USSEGLIO NANOT, Sandro	(51) B60C 11/16	(54) CHARGING SYSTEM
BONANOMI, Simone	(11) EP3507108	(73) ABB Schweiz AG
(74) J.M.H. Duyver lic.	(21) EP17762238.8	(72) VAN-DER-HEIJDEN, Jim
(31) PCT/EP2016/001945	(22) 30.08.2017	KOOLEN, Gertjan
(32) 19.11.2016	(54) TIRE WITH MEANS FOR SETTING OUT	(74) ir. W.J.J.M. Kempes
(33) World Intellectual Property Office (WIPO)	STUDS AT THE TIRE SURFACE, AND	(31) 17159147
(47) 28.09.2022	METHOD	(32) 03.03.2017
(51) B32B 27/08	(73) Drive Technology Holland Ltd.	(33) European Patent Office (EPO)
B32B 27/18	(72) DE WIJS, Johannes Constant Maria	(47) 05.10.2022
B32B 27/30	VAN TILBURG, Marinus Johannes	(51) B60N 2/28
B32B 27/32	cornelis	(11) EP3763563
B32B 27/34	ESSENS, Henricus Josephus Maria	(21) EP19214842.7
B32B 27/40		(22) 10.12.2019

(54) SEAT LYING ADJUSTMENT MECHANISM AND CHILD SAFETY SEAT	(22) 24.05.2019	B62B 5/00
(73) Zhejiang Boan Mother and Child Products Co., Ltd.	(54) INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, AND INFORMATION PROCESSING SYSTEM	B65G 7/04
(72) XIAO, Gangsheng	(73) Sony Semiconductor Solutions Corporation	(11) EP3782873
CHI, Ruiwei	(72) NAKAYAMA Satoshi	(21) EP20767456.5
LIU, Yunzhou	YONEZAWA Kota	(22) 10.01.2020
(74) ir. F.A. Geurts c.s.	(74) ir. W.J.J.M. Kempes	(54) HEAVY-GOODS MOVING CART
(31) 201921078938 U	(31) 2018109523	(73) Hasegawa, Mitsuo
(32) 11.07.2019	(32) 07.06.2018	(72) Hasegawa, Mitsuo
(33) China	(33) Japan	(74) dr. A. Krebs
(47) 26.10.2022	(47) 14.12.2022	(31) 2019128683
(51) B60N 3/10	(51) B60T 13/66	(32) 10.07.2019
(11) EP3782853	B60T 8/17	(33) Japan
(21) EP20190834.0	(11) EP3592618	(47) 14.12.2022
(22) 13.08.2020	(21) EP18710085.4	(51) B62D 15/02
(54) STORAGE DEVICE FOR HOLDING LOOSE OBJECTS	(22) 28.02.2018	B60W 40/02
(73) DDS Digital Design Solutions GmbH	(54) BRAKING SYSTEM	B60W 40/08
(72) Endert, Guido	(73) AK Usatrucks Oy	B60W 50/08
Lehmann, Stefan	(72) HENRIKSSON, Tuomas	B60W 50/00
Wergen, Horst	(74) ir. W.J.J.M. Kempes	G08G 1/16
Christ, Alexander	(31) 20175204	(11) EP3517384
(74) ir. H.A. Witmans c.s.	(32) 07.03.2017	(21) EP17852881.6
(31) 102019122445	(33) Finland	(22) 12.09.2017
(32) 21.08.2019	(47) 16.11.2022	(54) VEHICLE CONTROL DEVICE, VEHICLE CONTROL METHOD, AND MOVING BODY
(33) Germany	(51) B60W 20/40	(73) Sony Group Corporation
(47) 12.10.2022	F02N 11/00	(72) KANEKO Asako
(51) B60P 1/04	(11) EP3095658	HAYAMIZU Shinnosuke
B60P 1/28	(21) EP16000918.9	SHIMIZU Itaru
B60P 1/16	(22) 22.04.2016	MARUKAWA Kazuyuki
(11) EP3689676	(54) METHOD AND CONTROL DEVICE FOR RECOVERY OF ENERGY IN A HYBRID VEHICLE	YUKAWA Yasuhiro
(21) EP20151566.5	(73) MAN Truck & Bus SE	(74) ir. W.J.J.M. Kempes
(22) 14.01.2020	(72) Hiermeier, Matthias	(31) 2016186480
(54) BEARING ASSEMBLY FOR A VEHICLE WITH A TILTING TRAILER	Pfau, Stefan	(32) 26.09.2016
(73) Franz Xaver Meiller Fahrzeug- und Maschinenfabrik - GmbH & Co KG	Fischer, Detlef	(33) Japan
(72) POPP, Klaus	(74) ir. A. Blokland c.s.	(47) 14.12.2022
(74) J.M.H. Duyver lic.	(31) 102015006454	(51) B62H 1/02
(31) 102019201389	(32) 19.05.2015	B62K 19/30
(32) 04.02.2019	(33) Germany	B62K 25/02
(33) Germany	(47) 30.11.2022	(11) EP3922538
(47) 30.11.2022	(51) B61L 15/00	(21) EP21178083.8
(51) B60P 1/64	B61L 27/40	(22) 07.06.2021
G01G 19/08	B61L 27/53	(54) BICYCLE STAND ASSEMBLY AND BICYCLE STANDS
B62D 33/04	B61L 27/57	(73) Hebie GmbH & Co. KG
(11) EP3597480	G05B 23/02	(72) SCHREIBER, Bodo
(21) EP19181909.3	(11) EP3649033	(74) ir. J.C. Volmer c.s.
(22) 24.06.2019	(21) EP18753083.7	(31) 202020103288 U
(54) COMMERCIAL VEHICLE, ESPECIALLY TRUCK, WITH STRUCTURE AND WEIGHT MEASUREMENT SENSORS	(22) 26.07.2018	(32) 08.06.2020
(73) MAN Truck & Bus SE	(54) METHOD FOR INVESTIGATING A FUNCTIONAL BEHAVIOUR OF A COMPONENT OF A TECHNICAL INSTALLATION, COMPUTER PROGRAM, AND COMPUTER-READABLE STORAGE MEDIUM	(33) Germany
(72) Artmaier, Wolfgang	(73) Siemens Mobility GmbH	(47) 02.11.2022
Peter, Andreas	(72) KLINGEBIEL, Dennis	(51) B62J 7/04
(74) ir. A. Blokland c.s.	MÜLLER, Thomas	B62J 7/08
(31) 102018117352	FANKHAUSER, Martin	(11) EP3889013
(32) 18.07.2018	(74) dr. R.C. van Duijvenbode c.s.	(21) EP21154034.9
(33) Germany	(31) 102017215341	(22) 19.02.2018
(47) 07.12.2022	(32) 01.09.2017	(54) MOUNTING SYSTEM FOR A BICYCLE LUGGAGE CARRIER
(51) B60R 16/02	(33) Germany	(73) Invented Here B.V.
B60R 1/00	(47) 19.10.2022	(72) ALAGOURIE, Ghassan
B60R 11/02	(51) B62B 3/00	(74) ir. H.A. Witmans c.s.
G08G 1/16		(31) 2018834
(11) EP3805048		(32) 02.05.2017
(21) EP19815404.9		(33) Netherlands
		(47) 12.10.2022
		(51) B62L 3/02
		B60T 8/36
		(11) EP3753833

(21) EP19710776.6	(33) Italy	(72) Bachmann, Reto
(22) 08.02.2019	(47) 02.11.2022	(74) dr. R.C. van Duijvenbode c.s.
(54) HYDRAULIC PRESSURE CONTROL UNIT	(51) B65C 3/06	(31) 2172018
(73) Robert Bosch GmbH	(11) EP3526126	(32) 22.02.2018
(72) CHIBA, Kazuki	(21) EP17791183.1	(33) Switzerland
ATSUSHI, Hiroaki	(22) 12.10.2017	(47) 12.10.2022
(74) ir. H.A. Witmans c.s.	(54) DEVICE AND SYSTEM FOR ARRANGING FOLDS IN FOIL MATERIAL	(51) B65D 88/28
(31) 2018023638	(73) Fuji Seal International, Inc.	(11) EP3762669
(32) 14.02.2018	(72) VAN RIJSEWIJK, Lucas	(21) EP18715127.9
(33) Japan	(74) J.M.H. Duyver lic.	(22) 08.03.2018
(47) 28.12.2022	(31) 2018117	(54) CONTAINER AND METHOD FOR STORING OR PROCESSING PARTICULATE MATERIALS TO MINIMIZE OR ELIMINATE VIBRATIONS SUCH AS QUAKING OR SHAKING
(51) B64C 39/02	(32) 04.01.2017	(73) DANIELI & C. OFFICINE MECCANICHE S.P.A.
B64C 29/02	(33) Netherlands	HYL Technologies, S.A. de C.V.
B64D 27/06	(47) 07.12.2022	(72) BECERRA LUCATERO, Luis Manuel
(11) EP3464064	(51) B65D 1/26	MAGGIOLINO, Stefano
(21) EP17807595.8	G07F 13/10	MARTINIS, Alessandro
(22) 02.06.2017	G07F 13/06	TAVANO, Andrea
(54) VERTICAL TAKE-OFF AND LANDING (VTOL) WINGED AIR VEHICLE WITH COMPLEMENTARY ANGLED ROTORS	(11) EP3656691	MORALES SERRANO, Raúl
(73) AeroVironment, Inc.	(21) EP19211029.4	(74) ir. W.J.J.M. Kempes
(72) LINDSEY, Quentin	(22) 22.11.2019	(47) 02.11.2022
WON, Henry Thome	(54) STACKABLE CUPS	(51) B65G 1/137
(74) dr. R.C. van Duijvenbode c.s.	(73) Lavazza Professional UK Limited	(11) EP3630655
(31) 201662345618 P	(72) Nicholls, Darren	(21) EP18740083.3
(32) 03.06.2016	(74) ir. W.J.J.M. Kempes	(22) 29.05.2018
(33) United States of America	(31) 201819092	(54) METHOD AND GOODS STORAGE SYSTEM FOR PICKING GOODS WITH EFFICIENTLY OPERATED DYNAMIC BUFFER
(47) 16.11.2022	(32) 23.11.2018	(73) TGW Logistics Group GmbH
(51) B64F 5/00	(33) United Kingdom	(72) LINDLEY, Timothy
G06Q 10/06	(47) 02.11.2022	SCHRÖPF, Harald Johannes
B64F 5/20	(51) B65D 47/24	(74) J.M.H. Duyver lic.
B64F 5/23	B65D 39/12	(31) 504632017
(11) EP3851383	B65D 39/16	(32) 02.06.2017
(21) EP20020631.6	B65D 81/20	(33) Austria
(22) 12.09.2014	B65B 31/04	(47) 05.10.2022
(54) METHOD AND SYSTEM FOR COORDINATING REMOVAL OF AIRCRAFT	(11) EP3568359	(51) B65G 17/32
(73) JCAI Inc.	(21) EP18700421.3	B65G 47/96
(72) Campbell, Jeffery P.	(22) 16.01.2018	(11) EP3418223
Bambrick, David	(54) STOPPER ASSEMBLY, USE OF A STOPPER ASSEMBLY	(21) EP17753119.1
(74) ir. G.P. den Braber	(73) Vacu Vin Innovations Ltd.	(22) 13.02.2017
(31) 201461953208 P	(72) VAN WINDEN, Jasper Wilhelmus Petrus	(54) CONVEYOR APPARATUS
201361877400 P	MEDEIROS SANTOS, Rui	(73) Daifuku Co., Ltd.
(32) 14.03.2014	(74) ir. H.A. Witmans c.s.	(72) FUJIO Yoshihiko
13.09.2013	(31) 2018182	(74) mr. ir. J. van Breda c.s.
(33) United States of America	(32) 16.01.2017	(31) 2016029437
United States of America	(33) Netherlands	(32) 19.02.2016
(47) 05.10.2022	(47) 28.09.2022	(33) Japan
(51) B65B 7/28	(51) B65D 77/04	(47) 07.12.2022
B65B 51/14	B65D 81/02	(51) B65G 21/06
B65B 57/00	B65D 65/46	B65G 21/10
(11) EP3976478	B65D 1/36	B65G 21/14
(21) EP20742877.2	B65D 81/133	(11) EP3476774
(22) 22.05.2020	B65D 77/26	(21) EP18202141.0
(54) BOTTLE CAPPING STATION, IN PARTICULAR FOR PRODUCTS OF THE PHARMACEUTICAL INDUSTRY	B65D 81/26	(22) 23.10.2018
(73) G.D SOCIETA' PER AZIONI	B65D 85/60	(54) TRANSPORT DEVICE
(72) MARIANI, Luca	A01G 9/02	(73) Weber Maschinenbau GmbH
TESTONI, Luca	B65D 77/20	Breidenbach
DONDINI, Andrea	B65D 25/28	(72) Jung-Sassmannshausen, Fabian
FEDERICI, Luca	(11) EP3530588	Kuhmichel, Christoph
(74) mr. ir. J. van Breda c.s.	(21) EP19156846.8	(74) dr. R.C. van Duijvenbode c.s.
(31) 201900007195	(22) 13.02.2019	(31) 102017125110
(32) 24.05.2019	(54) PACKAGING TRAY, ITS USE, AND PACKAGE INCLUDING THE TRAY	(32) 26.10.2017
	(73) Bachmann Forming AG	

(33) Germany	(72) LEHMANN, Walter	C04B 28/16
(47) 07.12.2022	VYDRA, Jan	C04B 111/00
(51) B66B 23/02	LANGNER, Andreas	C04B 111/34
(11) EP3887301	HÜNERMANN, Michael	C04B 111/60
(21) EP19791269.4	THOMAS, Stephan	(11) EP3805181
(22) 25.10.2019	HENGSTER, Stefan	(21) EP20206301.2
(54) METHOD FOR MOUNTING A CONVEYOR CHAIN FOR A PALLET BELT OF A WALKWAY	TROMMER, Martin	(22) 30.03.2015
(73) INVENTIO AG	BECKER, Klaus	(54) FAST DRYING BUILDING MATERIAL COMPOSITION BASED ON A MINERAL HYBRID ADHESIVE
(72) STREIBIG, Kurt	(74) ir. W.J.J.M. Kempes	(47) 14.12.2022
KLEEWEIN, Gerhard	(51) C03C 3/097	(73) SIKA TECHNOLOGY AG
PRAXMARER, Dominik	C03C 10/00	(72) Motzet, Hubert
(74) dr. R.C. van Duijvenbode c.s.	A61C 5/77	Börsting, Wolfgang
(31) 18208432	A61K 6/807	Knoebel, Markus
(32) 27.11.2018	A61K 6/816	Meinersmann, Thomas
(33) European Patent Office (EPO)	A61K 6/82	(74) ir. W.J.J.M. Kempes
(47) 30.11.2022	A61K 6/822	(31) 14162889
(51) B66C 15/04	A61K 6/824	(32) 31.03.2014
(11) EP3873844	A61K 6/818	(33) European Patent Office (EPO)
(21) EP20704401.7	A61K 6/833	(47) 19.10.2022
(22) 23.01.2020	A61K 6/836	(51) C07B 59/00
(54) COLLISION-FREE GUIDANCE OF A LOAD SUSPENDED ON A CABLE	A61K 6/838	A61K 49/10
(73) Siemens Aktiengesellschaft	A61K 6/842	G01R 33/28
(72) LADRA, Uwe	A61K 6/844	A61B 5/055
RECKTENWALD, Alois	(11) EP2635537	(11) EP3837230
(74) dr. R.C. van Duijvenbode c.s.	(21) EP11727924.0	(21) EP19758642.3
(31) 19155318	(22) 22.06.2011	(22) 14.08.2019
(32) 04.02.2019	(54) LITHIUM SILICATE GLASSES OR GLASS CERAMICS, METHOD FOR PRODUCTION THEREOF AND USE THEREOF	(54) METHOD AND APPARATUS FOR HYDROGENATION AND HYPERPOLARIZATION OF TRACER MOLECULES FOR MAGNETIC RESONANCE IMAGING
(33) European Patent Office (EPO)	(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	(73) Albert-Ludwigs-Universität Freiburg
(47) 19.10.2022	Vita Zahnfabrik H. Rauter GmbH & Co. KG	(72) BERNER, Stephan
(51) C01F 7/02	DeguDent GmbH	SCHMIDT, Andreas
B01J 21/10	(72) DURSCHANG, Bernhard	HÖVENER, Jan-Bernd
B01J 31/04	PROBST, Jörn	HENNIG, Jürgen
(11) EP3625174	THIEL, Norbert	(74) ir. H.A. Witmans c.s.
(21) EP18726619.2	GÖDIKER, Michael	(31) 102018119695
(22) 01.05.2018	VOLLMANN, Markus	(32) 14.08.2018
(54) METHODS FOR PREPARING MIXED-METAL OXIDE DIAMONDOID NANOCOMPOSITES AND CATALYTIC SYSTEMS INCLUDING THE NANOCOMPOSITES	SCHUSSER, Udo	(33) Germany
(73) Saudi Arabian Oil Company	(74) ir. W.J.J.M. Kempes	(47) 28.09.2022
Durham University	(31) 102010050275	(51) C07C 5/27
(72) VEERABHADRAPPA, Manohara, Gudiyor	(32) 02.11.2010	C07C 15/08
GREENWELL, Hugh, Christopher	(33) Germany	B01J 29/40
HALL, John, Adrian	(47) 30.11.2022	(11) EP3442933
ALABEDI, Gasan, Selman	(51) C04B 28/02	(21) EP17782913.2
WHITING, Andrew	C04B 28/04	(22) 10.04.2017
(74) ir. W.J.J.M. Kempes	C04B 28/10	(54) LIQUID PHASE XYLENE ISOMERIZATION IN THE ABSENCE OF HYDROGEN
(31) 201815966312	C04B 28/14	(73) UOP LLC
201762508672 P	C04B 38/10	(72) KUZMANICH, Gregory B.
(32) 30.04.2018	(11) EP3672923	BAMBAL, Ashish Suresh
19.05.2017	(21) EP18752153.9	WHITECHURCH, Patrick C.
(33) United States of America	(22) 10.08.2018	(74) ir. W.J.J.M. Kempes
United States of America	(54) HYBRID FOAM	(31) 201662322672 P
(47) 16.11.2022	(73) BASF SE	(32) 14.04.2016
(51) C03B 19/14	(72) CENTNER, Alexander	(33) United States of America
C03B 23/045	NIEDERMAIR, Fabian	(47) 30.11.2022
C03B 32/00	JAHNS, Ekkehard	(51) C07C 29/14
(11) EP3643688	DAXENBERGER, Georg	C07C 33/02
(21) EP18202857.1	(74) ir. W.J.J.M. Kempes	(11) EP3894381
(22) 26.10.2018	(31) 17187564	(21) EP19816340.4
(54) METHOD FOR HOMOGENISING GLASS	(32) 23.08.2017	(22) 10.12.2019
(73) Heraeus Quarzglas GmbH & Co. KG	(33) European Patent Office (EPO)	(54) DODECA-4,8,11-TRIEN-1-OL AND ITS USE AS AROMA CHEMICAL
	(47) 19.10.2022	(73) BASF SE
	(51) C04B 28/06	
	C04B 28/14	

- (72) BRU ROIG, Miriam
 PELZER, Ralf
 GARLICH, Florian
- (74) ir. W.J.J.M. Kempes
 (31) 18211704
 (32) 11.12.2018
 (33) European Patent Office (EPO)
 (47) 19.10.2022
-
- (51) C07C 51/245
 C07C 53/126
 C07C 67/31
 C07C 67/333
 C07C 69/67
 C11C 3/00
 C07C 51/09
- (11) EP3792243
 (21) EP20204446.7
 (22) 29.12.2010
 (54) CONTINUOUS PROCESS OF
 OXIDATIVE CLEAVAGE OF
 VEGETABLE OILS
- (73) Novamont S.p.A.
 (72) Borsotti, Giampietro
 Digioia, Francesca
 Ferrari, Adriano
 Bieser, Arno
 Pirocco, Alessandro
- (74) J.M.H. Duyver lic.
 (31) MI20092360
 (32) 30.12.2009
 (33) Italy
 (47) 30.11.2022
-
- (51) C07C 209/36
 B01J 23/40
 C07C 37/045
 C07C 245/20
 B01J 21/18
 B01J 23/42
 B01J 23/89
 B01J 35/00
- (11) EP3356033
 (21) EP16852675.4
 (22) 30.09.2016
 (54) PROCESS FOR CATALYTIC
 HYDROGENATION OF
 HALONITROAROMATICS
- (73) Monsanto Technology LLC
 (72) WAN, Kam-TO
 AHN, John H.
- (74) ir. W.J.J.M. Kempes
 (31) 201562236010 P
 (32) 01.10.2015
 (33) United States of America
 (47) 19.10.2022
-
- (51) C07C 229/16
 C07D 233/61
 C07C 275/14
 C07C 311/05
 C07C 335/08
 C07C 233/36
 C07D 295/13
 C07C 279/28
 C07D 239/46
 C07D 473/00
 A61K 47/14
 A61K 47/24
 A61K 47/28
 A61K 9/127
- A61K 9/51
 C07D 249/04
 C07C 259/06
 C07C 307/06
- (11) EP3596041
 (21) EP18715412.5
 (22) 15.03.2018
 (54) COMPOUND AND COMPOSITIONS
 FOR INTRACELLULAR DELIVERY OF
 THERAPEUTIC AGENTS
- (73) ModernaTX, Inc.
 (72) BENENATO, Kerry E.
 KUMARASINGHE, Ellalahewage
 Sathyajith
 CORNEBISE, Mark
- (74) ir. W.J.J.M. Kempes
 (31) 201762475140 P
 201762471937 P
 (32) 22.03.2017
 15.03.2017
 (33) United States of America
 United States of America
 (47) 02.11.2022
-
- (51) C07D 207/08
 (11) EP3713915
 (21) EP18803625.5
 (22) 13.11.2018
 (54) METHOD FOR PRODUCING
 BISPYRROLIDINE COMPOUNDS
- (73) BASF SE
 (72) KLOPSCH, Rainer
 ZIPFEL, Hannes Ferdinand
 GORDILLO BOLONIO, Alvaro
- (74) ir. W.J.J.M. Kempes
 (31) 17203292
 (32) 23.11.2017
 (33) European Patent Office (EPO)
 (47) 19.10.2022
-
- (51) C07D 215/50
 C07D 239/48
 C07D 241/42
 C07D 403/12
 A01N 1/02
 C07D 241/40
 C07D 209/04
- (11) EP3310761
 (21) EP15895847.0
 (22) 17.12.2015
 (54) PLATELET STORAGE METHODS AND
 COMPOSITIONS FOR SAME
- (73) Platefuse, Inc.
 (72) CANCELAS, Jose
 ZHENG, Yi
- (74) dr. ir. G.J.C. Verdijck c.s.
 (31) 201514743213
 (32) 18.06.2015
 (33) United States of America
 (47) 05.10.2022
-
- (51) C07D 233/36
 C07C 209/62
 C07C 211/02
- (11) EP3665159
 (21) EP18749378.8
 (22) 07.08.2018
 (54) PROCESS TO CONVERT THE CYCLIC
 MONOUREA OF AN ETHYLENE AMINE
 COMPOUND INTO THE ETHYLENE
 AMINE COMPOUND
- (73) Nouryon Chemicals International B.V.
 (72) JOVIC, Slavisa
 EDVINSSON, Rolf Krister
 VENEMAN, Rens
 KANTZER, Eike Nicolas
 VAN DAM, Hendrik
 RAAIJMAKERS, Michiel Jozef Thomas
 EHLERS, Ina
 TÖNNERFORS, Sara Erika
 LAKE, Karl Fredrik
 TEN KATE, Antoon Jacob Berend
- (74) dr. T. Wittop Koning PhD
 (31) 17185940
 (32) 11.08.2017
 (33) European Patent Office (EPO)
 (47) 28.12.2022
-
- (51) C07D 311/24
 C07D 405/12
 C07D 407/12
 A61K 31/352
 A61K 31/453
 A61P 31/00
 A61P 31/04
 A61P 31/06
- (11) EP3472141
 (21) EP17734411.6
 (22) 20.06.2017
 (54) ANTI-INFECTIVE AGENTS
- (73) University Of Dundee
 (72) BARAGANA, Beatriz
 CLEGHORN, Laura
 NORCROSS, Neil
 DAVIS, Susan
 WALPOLE, Christopher
 GILBERT, Ian
 JANSEN, Chimed
 FORTE, Barbara
- (74) ir. W.J.J.M. Kempes
 (31) 201610724
 (32) 20.06.2016
 (33) United Kingdom
 (47) 05.10.2022
-
- (51) C07D 405/14
 (11) EP3421465
 (21) EP17194116.4
 (22) 29.09.2017
 (54) RHO-ASSOCIATED PROTEIN KINASE
 INHIBITOR, PHARMACEUTICAL
 COMPOSITION COMPRISING THE
 SAME, AS WELL AS PREPARATION
 METHOD AND USE THEREOF
- (73) Beijing Tide Pharmaceutical Co., Ltd.
 (72) Li, Xiang
 Wang, Hongjun
 Li, Gong
 Liu, Yanan
 Jiang, Yuanyuan
 Zhao, Yanping
 Zhou, Liying
- (74) ir. F.A. Geurts c.s.
 (31) PCT/CN2017/091085
 (32) 30.06.2017
 (33) World Intellectual Property Office (WIPO)
 (47) 26.10.2022
-
- (51) C07D 405/14
 A61K 31/4427
 C07D 405/12
 C07D 409/14

- C07D 413/12
C07D 417/12
C07D 307/81
A61P 35/00
(11) EP3016946
(21) EP14742127.5
(22) 03.07.2014
(54) SUBSTITUTED BENZOFURANYL AND BENZOXAZOLYL COMPOUNDS AND PHARMACEUTICAL USES THEREOF
(73) Karyopharm Therapeutics Inc.
(72) BALOGLU, Erkan
SENAPEDIS, William
LANDESMAN, Yosef
SHECHTER, Sharon
SHACHAM, Sharon
MCCAULEY, Dilara
GOLAN, Gali
KALID, Ori
(74) ir. W.J.J.M. Kempes
(31) 201461975171 P
201361904843 P
201361879070 P
201361842856 P
(32) 04.04.2014
15.11.2013
17.09.2013
03.07.2013
(33) United States of America
United States of America
United States of America
United States of America
(47) 12.10.2022
(51) C07D 471/04
A61K 31/437
A61P 29/02
(11) EP3849976
(21) EP19765747.1
(22) 13.09.2019
(54) A GABA A RECEPTOR LIGAND
(73) Saniona A/S
(72) JACOBSEN, Thomas, Amos
LARSEN, Janus, S.
NIELSEN, Karin, Sandager
DYHRING, Tino
AMRUTKAR, Dipak
(74) ir. W.J.J.M. Kempes
(31) 18194297
(32) 13.09.2018
(33) European Patent Office (EPO)
(47) 26.10.2022
(51) C07D 471/04
C07D 487/04
C07D 519/00
A61P 11/00
A61P 31/12
A61K 31/437
A61K 31/5025
(11) EP3887372
(21) EP19817162.1
(22) 25.11.2019
(54) FURTHER HETEROAROMATIC COMPOUNDS HAVING ACTIVITY AGAINST RSV
(73) Janssen Sciences Ireland Unlimited Company
(72) GUILLEMONT, Jérôme, Émile, Georges
LANCOIS, David, Francis, Alain
- ANGIBAUD, Patrick, René
RIGAUX, Peter
MICHAUT, Antoine, Benjamin
MERCEY, Guillaume, Jean, Maurice
RABOISSON, Pierre, Jean-Marie, Bernard
CHAO, Sovy
(74) ir. W.J.J.M. Kempes
(31) 18208276
(32) 26.11.2018
(33) European Patent Office (EPO)
(47) 12.10.2022
(51) C07D 487/10
A61K 31/40
A61P 25/00
A61K 31/397
A61K 31/407
(11) EP3514158
(21) EP19161143.3
(22) 29.01.2014
(54) SPIRO-LACTAM NMDA RECEPTOR MODULATORS AND USES THEREOF
(73) Aptinyx Inc.
(72) LOWE, John A. III
KHAN, M. Amin
(74) dr. R.C. van Duijvenbode c.s.
(31) 201361757903 P
(32) 29.01.2013
(33) United States of America
(47) 12.10.2022
(51) C07D 513/22
C07D 515/22
A61P 11/00
A61K 31/437
(11) EP3752510
(21) EP19707648.2
(22) 14.02.2019
(54) MACROCYCLES AS MODULATORS OF CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR, PHARMACEUTICAL COMPOSITIONS THEREOF, THEIR USE IN THE TREATMENT OF CYCSTIC FIBROSIS, AND PROCESS FOR MAKING THEM
(73) Vertex Pharmaceuticals Incorporated
(72) GHIRMAL, Senait G.
GROOTENHUIS, Peter
KHATUYA, Haripada
CHEN, Weichao George
KANG, Ping
COON, Timothy Richard
BUSCH, Brett B.
SWIFT, Sara E.
HSIA, Clara Kuang-Ju
ZHOU, Jinglan
PIERRE, Fabrice
ABELA, Alexander Russell
ANDERSON, Corey Don
HADIDA RUAH, Sara Sabina
CLEVELAND, Thomas
MILLER, Mark Thomas
PARASELLI, Prasuna
CLEMENS, Jeremy J.
VOGEL, Carl V.
MCCARTNEY, Jason
TERMIN, Andreas
UY, Johnny
GULEVICH, Anton V.
- FRIEMAN, Bryan
(74) dr. R.C. van Duijvenbode c.s.
(31) 201862631453 P
(32) 15.02.2018
(33) United States of America
(47) 07.12.2022
(51) C07D 519/00
(11) EP3573948
(21) EP18704352.6
(22) 24.01.2018
(54) METHODS OF PREPARING CYTOTOXIC BENZODIAZEPINE DERIVATIVES
(73) Immunogen, Inc.
(72) GÉRARD, Baudouin
SILVA, Richard, A.
MILLER, Michael, Louis
SHIZUKA, Manami
(74) ir. H.A. Witmans c.s.
(31) 201762450270 P
(32) 25.01.2017
(33) United States of America
(47) 05.10.2022
(51) C07K 16/18
(11) EP3250592
(21) EP16702812.5
(22) 28.01.2016
(54) ANTI-TRANSTHYRETIN ANTIBODIES
(73) Prothena Biosciences Limited
University Health Network
(72) LIU, Yue
NIJJAR, Tarlochan S.
CHAKRABARTTY, Avijit
HIGAKI, Jeffrey, N.
(74) ir. W.J.J.M. Kempes
(31) 201562266556 P
201562109002 P
(32) 11.12.2015
28.01.2015
(33) United States of America
United States of America
(47) 05.10.2022
(51) C07K 16/28
A61K 39/395
G01N 33/53
(11) EP3800202
(21) EP20194896.5
(22) 11.12.2015
(54) ANTI-C10ORF54 ANTIBODIES AND USES THEREOF
(73) PIERRE FABRE MEDICAMENT
(72) THEUNISSEN, Jan-Willem
KIM, Sun, Young
LIPPINCOTT, John
PRESTA, Leonard, G.
VAN DER HORST, Edward Thein, Htun
(74) ir. F.A. Geurts c.s.
(31) 201462090880 P
(32) 11.12.2014
(33) United States of America
(47) 09.11.2022
(51) C08B 3/06
C08B 31/04
C08B 37/00
(11) EP3055334
(21) EP14781564.1
(22) 08.10.2014
(54) ACYLATION PROCESS

(73) Cerdia International GmbH	(47) 26.10.2022	C08K 7/14
(72) HUMMEL, Andreas	(51) C08G 63/181	C08K 13/02
EHRET, Hans-Juergen	C08G 63/20	C08K 13/04
(74) dr. R.C. van Duijvenbode c.s.	C09D 167/02	C08L 77/06
(31) 13188120	(11) EP3310839	C08L 77/00
(32) 10.10.2013	(21) EP16734429.0	C08L 77/02
(33) European Patent Office (EPO)	(22) 08.06.2016	C08K 5/20
(47) 07.12.2022	(54) HYDROXYLATED AND/OR	C08K 5/098
(51) C08F 2/00	CARBOXYLATED POLYESTER RESIN	C08K 5/101
C08F 210/06	WITH HIGH SOLIDS CONTENT AND	(11) EP2964698
C08F 4/654	HIGH COVERING POWER FOR	(21) EP14707327.4
(11) EP3645580	COATING OF METAL FOIL	(22) 27.02.2014
(21) EP18733618.5	(73) Arkema France	(54) FLAME-RETARDANT POLYAMIDE
(22) 27.06.2018	(72) COGORDAN, Frank	COMPOSITION
(54) PROCESS FOR PREPARING A	OZERAY, Hervé	(73) Clariant International Ltd
POLYPROPYLENE COMPOSITION	RIONDEL, Alain	(72) HÖROLD, Sebastian
(73) Borealis AG	(74) ir. W.J.J.M. Kempes	SICKEN, Martin
(72) MONNISSSEN, Luc	(31) 1555541	BAUER, Harald
GAHLEITNER, Markus	(32) 17.06.2015	(74) J.M.H. Duyver lic.
POTTER, Elisabeth	(33) France	(31) 102013004046
AHO, Jani	(47) 12.10.2022	(32) 08.03.2013
WANG, Jingbo	(51) C08G 65/32	(33) Germany
BERNREITNER, Klaus	B24B 37/24	(47) 30.11.2022
CIGON, Meta	C08F 290/14	(51) C08L 67/02
(74) J.M.H. Duyver lic.	C08G 18/64	C08L 75/04
(31) 17178776	C08L 71/00	C08L 77/12
(32) 29.06.2017	C09K 9/02	(11) EP3591007
(33) European Patent Office (EPO)	H01L 21/304	(21) EP19192025.5
(47) 14.12.2022	C08B 37/16	(22) 07.03.2017
(51) C08F 12/08	C08L 5/16	(54) THERMOPLASTIC COMPOSITIONS
C08F 4/34	G02B 1/00	(73) FKUr Property GmbH
C08F 2/18	(11) EP3795608	(72) KR PAN, Karel
C08J 9/20	(21) EP19804383.8	DOLFEN, Edmund
C08J 9/14	(22) 16.05.2019	MICHELS, Frank
(11) EP4017886	(54) LOW MOISTURE CONTENT	NEUMANN, Frank-Martin
(21) EP20848851.0	POLYROTAXANE MONOMER	(74) J.M.H. Duyver lic.
(22) 18.12.2020	AND CURABLE COMPOSITION	(31) 102016104379
(54) METHOD FOR POLYMERISING	COMPRISING SAID MONOMER	(32) 10.03.2016
AN AQUEOUS SUSPENSION OF	(73) Tokuyama Corporation	(33) Germany
STYRENE USING AT LEAST ONE	(72) KAWASAKI, Takayoshi	(47) 07.12.2022
ORGANIC HEMIPEROXYACETAL	TOCHI, Mitsuki	(51) C09D 1/00
PEROXIDE	SHIMIZU, Yasutomo	C09D 7/40
(73) ARKEMA FRANCE	(74) ir. A. Blokland c.s.	B05D 3/10
(72) VAN HEMELRYCK, Bruno	(31) 2018095771	(11) EP3831893
MASI, Isabelle	(32) 17.05.2018	(21) EP21154151.1
(74) dr. R.C. van Duijvenbode c.s.	(33) Japan	(22) 27.02.2018
(31) 1914739	(47) 28.12.2022	(54) SURFACE REACTIVATION
(32) 18.12.2019	(51) C08J 3/00	TREATMENT
(33) France	C08J 3/11	(73) The Boeing Company
(47) 30.11.2022	C08J 3/12	(72) SIMONS, Ranya
(51) C08G 18/10	(11) EP3577159	LI, Sheng
C09J 175/04	(21) EP18701767.8	BATEMAN, Stuart Arthur
C08L 75/04	(22) 31.01.2018	SIMMONDS, Emma
C08G 18/76	(54) PROCESS FOR MANUFACTURING	SEEBERGH, Jill Elisabeth
C08G 18/22	PARTICLES COMPRISING	BOLLES, Jason A.
(11) EP3497144	POLYLACTIC ACID	BERRY, Douglas Henry
(21) EP17757807.7	(73) PURAC Biochem BV	(74) dr. R.C. van Duijvenbode c.s.
(22) 01.08.2017	(72) GOBIUS DU SART, Gerrit	(31) 201762466659 P
(54) PROCESS FOR THE SYNTHESIS	DE VOS, Siebe Cornelis	(32) 03.03.2017
OF SILYLATED POLYURETHANES	VAN DOORN, Taco Pascal	(33) United States of America
AND SILYLATED POLYURETHANE	(74) ir. A.R. Aalbers	(47) 30.11.2022
COMPOSITION	(31) 17154402	(51) C09D 5/00
(73) Bostik SA	(32) 02.02.2017	(11) EP3837321
(72) LAFERTE, Olivier	(33) European Patent Office (EPO)	(21) EP19790740.5
(74) dr. R.C. van Duijvenbode c.s.	(47) 28.09.2022	(22) 11.10.2019
(31) 1657643	(51) C08K 5/5313	(54) A MIXTURE CURABLE TO PROVIDE
(32) 08.08.2016	C08K 3/32	AN INTUMESCENT COATING
(33) France	C08K 3/00	MATERIAL

(73) Advanced Innergy Ltd	(51) C10G 11/18	C10N 10/02
(72) SHEPHERD, Simon Harry	C10G 45/00	C10N 10/04
NAIK, Anil	C10G 45/02	C10N 20/02
JONES, Simon	C10G 45/44	C10N 20/04
JORDAN, Laura Louise	C10G 47/00	C10N 30/04
(74) J.M.H. Duyver lic.	C10G 3/00	C10N 30/06
(31) 201816974	C10G 45/06	C10N 30/10
(32) 18.10.2018	C10G 45/10	C10N 40/25
(33) United Kingdom	C10G 65/02	C10N 60/14
(47) 16.11.2022	(11) EP3898897	C10N 30/00
(51) C09D 167/08	(21) EP19828811.0	(11) EP3655509
C09F 9/00	(22) 18.12.2019	(21) EP18749703.7
(11) EP3077467	(54) SELECTIVE HYDROXYL GROUP	(22) 17.07.2018
(21) EP14816144.1	REMOVAL FROM ALKYLPHENOLS	(54) LOW ZINC LUBRICANT COMPOSITION
(22) 03.12.2014	(73) Neste Oyj	(73) The Lubrizol Corporation
(54) DRIER COMPOSITION AND USE	(72) MÄKELÄ, Eveliina	(72) DAVIES, Mark C.
THEREOF	LINDBLAD, Marina	MOSIER, Patrick E.
(73) PPG Europe B.V.	GONZÁLES ESCOBEDO, José Luis	SUTTON, Michael R.
(72) ANG, Tjian Hong	KARINEN, Reetta	JONES, Joanne L.
WEIJNEN, John	LAMMINPÄÄ, Kaisa	(74) ir. W.J.J.M. Kempes
(74) dr. A. Ellens c.s.	PUURUNEN, Riikka	(31) 201762533297 P
(31) PCT/EP2013/075430	(74) ir. W.J.J.M. Kempes	(32) 17.07.2017
(32) 03.12.2013	(31) 20186130	(33) United States of America
(33) World Intellectual Property Office (WIPO)	(32) 21.12.2018	(47) 07.12.2022
(47) 02.11.2022	(33) Finland	(51) C10M 151/04
(51) C09K 11/02	(47) 12.10.2022	C10N 30/02
C09K 11/70	(51) C10G 65/12	C10N 30/04
C09K 11/62	C10G 47/14	C10N 30/06
C09K 11/88	C10G 47/16	C10N 40/25
H01B 1/08	C10G 67/02	(11) EP3209756
H01L 33/06	(11) EP3561024	(21) EP15778794.6
H01L 51/50	(21) EP19181009.2	(22) 15.09.2015
(11) EP3775098	(22) 10.03.2016	(54) DISPERSANT VISCOSITY MODIFIERS
(21) EP19727198.4	(54) HYDROCRACKING PROCESS FOR	WITH SULFONATE FUNCTIONALITY
(22) 09.05.2019	HIGH YIELDS OF HIGH QUALITY LUBE	(73) The Lubrizol Corporation
(54) QUANTUM DOT LED DESIGN BASED	PRODUCTS	(72) PRESTON, Adam
ON RESONANT ENERGY TRANSFER	(73) ExxonMobil Technology and Engineering	ZHANG, Yanshi
(73) Nanosys, Inc.	Company	SLOCUM, Sona, S.
(72) GUO, Wenzhuo	(72) HOO, Tech-Mui	GIESELMAN, Matthew, D.
DOHNER, Emma Rose	CLARK, Michael C.	(74) ir. W.J.J.M. Kempes
TRUSKIER, Jonathan Andrew	CHEN, Fengrong	(31) 201462050317 P
CHOW, Yeewah Annie	MELLI, Tomas R.	(32) 15.09.2014
TILLMAN, Jason Travis	DOU, Suisheng M.	(33) United States of America
IPPEN, Christian Justus	UMANSKY, Benjamin S.	(47) 02.11.2022
(74) ir. W.J.J.M. Kempes	DEMMIN, Richard A.	(51) C11D 1/65
(31) 201916406930	GLEESON, James W.	C11D 3/04
201862670201 P	(74) ir. W.J.J.M. Kempes	C11D 3/34
(32) 08.05.2019	(31) 201562136692 P	C11D 3/37
11.05.2018	(32) 23.03.2015	C11D 3/40
(33) United States of America	(33) United States of America	C11D 1/22
United States of America	(47) 12.10.2022	C11D 1/62
(47) 14.12.2022	(51) C10G 65/14	(11) EP3623455
(51) C09K 11/06	(11) EP3693445	(21) EP19196827.0
C08G 61/02	(21) EP20154464.0	(22) 11.09.2019
G01N 33/58	(22) 30.01.2020	(54) DESCALING FORMULATION FOR WCS
(11) EP3889237	(54) PROCESSING SCHEME FOR	(73) Bolton Manitoba S.p.A.
(21) EP21156248.3	PRODUCTION OF LOW SULFUR	(72) RUSSO, Vincenzo
(22) 14.04.2017	BUNKER FUEL	BRIGNOLI, Cinzia
(54) PHOTOACTIVE MACROMOLECULES	(73) IFP Energies nouvelles	MARELLI, Roberta
AND USES THEREOF	(72) BABUSIAUX, Sophie	OLIVA, Marco
(73) Beckman Coulter, Inc.	DUDDY, John E.	(74) J.M.H. Duyver lic.
(72) EASWARAN, Arunkumar	PEER, Eric D.	(31) 201800008545
GULNIK, Sergei	(74) ir. W.J.J.M. Kempes	(32) 12.09.2018
(74) ir. H.J.G. Lips c.s.	(31) 201916267437	(33) Italy
(31) 201662323444 P	(32) 05.02.2019	(47) 07.12.2022
(32) 15.04.2016	(33) United States of America	(51) C12G 1/028
(33) United States of America	(47) 19.10.2022	C12H 1/04
(47) 28.12.2022	(51) C10M 141/12	C12F 3/02

C12F 3/04	(51) C12N 9/10	(54) RNA LIGAND-DISPLAYING EXOSOMES
(11) EP3875569	C12N 15/52	FOR SPECIFIC DELIVERY OF
(21) EP21156468.7	C12N 15/77	THERAPEUTICS TO CELL BY RNA
(22) 11.02.2021	C12P 13/06	NANOTECHNOLOGY
(54) FERMENTATION GAS CONDENSATION	(11) EP3858987	(73) Ohio State Innovation Foundation
(73) Neisius, Jürgen	(21) EP21154505.8	(72) GUO, Peixuan
(72) Neisius, Jürgen	(22) 20.10.2017	PI, Fengmei
(74) ir. W.J.J.M. Kempes	(54) A NOVEL ISOPROPYLMALATE	LI, Hui
(31) 102020105765	SYNTHASE VARIANT AND A METHOD	WANG, Shaoying
(32) 04.03.2020	OF PRODUCING L-LEUCINE USING	(74) dr. W.A.H.M. Van Borm
(33) Germany	THE SAME	(31) 201662380233 P
(47) 02.11.2022	(73) CJ Cheiljedang Corporation	201662319104 P
(51) C12N 1/12	(72) LEE, Ji Hye	(32) 26.08.2016
C12P 21/00	KIM, Jong Hyun	06.04.2016
(11) EP3325606	KIM, Hye Won	(33) United States of America
(21) EP16754404.8	SONG, Byeong Cheol	United States of America
(22) 13.07.2016	JEON, Ae Ji	(47) 28.09.2022
(54) THRAUSTOCHYTRID BIOMASS	(74) dr. R.C. van Duijvenbode c.s.	(51) C12P 19/04
ENRICHED WITH OILS AND	(31) 20160181343	A61K 39/09
PROTEINS, CULTURING METHOD,	(32) 28.12.2016	C08B 37/00
AND USES	(33) Korea (Republic)	C07K 14/315
(73) Fermentalg	(47) 09.11.2022	(11) EP3140414
(72) PAGLIARDINI, Julien	(51) C12N 9/26	(21) EP15720977.6
CALLEJA, Pierre	(11) EP3397761	(22) 05.05.2015
LEPENDRIE, Adeline	(21) EP16829095.5	(54) PURIFICATION OF SECRETED
CAGNAC, Olivier	(22) 29.12.2016	POLYSACCHARIDES FROM S.
(74) ir. W.J.J.M. Kempes	(54) ENZYME VARIANTS AND	AGALACTIAE
(31) 1556792	POLYNUCLEOTIDES ENCODING THE	(73) GlaxoSmithKline Biologicals S.A.
(32) 17.07.2015	SAME	(72) BALDUCCI, Evita
(33) France	(73) Novozymes A/S	BERTI, Francesco
(47) 05.10.2022	(72) PLESNER, Bitten	MARGARIT Y ROS, Immaculada
(51) C12N 5/00	ARNEHED, Sofia	TONIOLO, Chiara
(11) EP1984487	BLICHER, Thomas, Holberg	JANULCZYK, Valdemar, Robert
(21) EP06789485.7	ANDERSEN, Carsten	(31) 14167448
(22) 03.08.2006	CHRISTENSEN, Lars, Lehmann, Hylling	(32) 07.05.2014
(54) IMPROVED METHODS OF	HOUG, Anne, Dorte	(33) European Patent Office (EPO)
REPROGRAMMING ANIMAL SOMATIC	REGUEIRA, Torsten, Bak	(47) 26.10.2022
CELLS	(74) dr. R.C. van Duijvenbode c.s.	(51) C12Q 1/68
(73) Astellas Institute for Regenerative	(31) 16168114	C12N 15/82
Medicine	15203051	A01H 5/00
(72) WEST, Michael, D.	(32) 03.05.2016	(11) EP2247751
SARGENT, Roy, Geoffrey	30.12.2015	(21) EP09707597.2
CHAPMAN, Karen, B.	(33) European Patent Office (EPO)	(22) 04.02.2009
(74) ir. A. Blokland c.s.	European Patent Office (EPO)	(54) DISEASE RESISTANT PEPPER
(31) 818813 P	(47) 09.11.2022	PLANTS
729173 P	(51) C12N 15/10	(73) Hazera Seeds Ltd.
705625 P	(11) EP3412773	The Agricultural Research Organization -
(32) 05.07.2006	(21) EP18186343.2	Volcani Center
20.10.2005	(22) 25.09.2012	(72) PARAN, Ilan
03.08.2005	(54) RAPID METHOD FOR ISOLATING	BENAROUS, Serge
(33) United States of America	EXTRACELLULAR NUCLEIC ACIDS	ASHKENAZI, Varda
United States of America	(73) QIAGEN GmbH	(74) ir. J.C. Volmer c.s.
United States of America	(72) SPRENGER-HAUSSELS, Markus	(31) 25821 P
(47) 12.10.2022	NOCON, Annette	(32) 04.02.2008
(51) C12N 7/04	ERBACHER, Christoph	(33) United States of America
(11) EP3688147	GRÜNEFELD, Peter	(47) 05.10.2022
(21) EP18830794.6	HORLITZ, Martin	(51) C12Q 1/6816
(22) 18.12.2018	(74) ir. W.J.J.M. Kempes	C12Q 1/6825
(54) A NOVEL DRUG DELIVERY SYSTEM	(31) 11007824	C12Q 1/68
AND METHODS PROVIDING THEREOF	(32) 26.09.2011	(11) EP3529373
(73) NEUWAY Pharma GmbH	(33) European Patent Office (EPO)	(21) EP17790830.8
(72) KOßMANN, Katja Janina	(47) 16.11.2022	(22) 20.10.2017
MANNINGA, Heiko	(51) C12N 15/11	(54) METHOD FOR DETERMINING
SOTNIKOV, Sergey	C07H 21/04	THE PRESENCE, ABSENCE OR
STAPF, Marcus	A61K 9/51	AMOUNT OF TWO OR MORE TARGET
DEMINA, Victoria	(11) EP3440090	POLYNUCLEOTIDES
(74) dr. A. Krebs	(21) EP17779754.5	(73) Oxford Nanopore Technologies plc
(47) 14.09.2022	(22) 05.04.2017	(72) WHITE, James

FORDHAM, Daniel George SMITH, Nicholas Antony TURNER, Daniel John	ACTIVITY USING MATHEMATICAL MODELLING OF TARGET GENE EXPRESSION	(21) EP18712114.0 (22) 08.03.2018 (54) METHOD AND ARRANGEMENT FOR PROVIDING A PLURALITY OF NANOWIRES
(74) ir. W.J.J.M. Kempes (31) 201617886 (32) 21.10.2016 (33) United Kingdom (47) 07.12.2022	(73) InnoSIGN B.V. (72) DOU, Meng VERHAEGH, Wilhelmus, Franciscus, Johannes VAN DE STOLPE, Anja VELTER, Rick	(73) NanoWired GmbH (72) BIRLEM, Olav SCHLAAK, Helmut F. QUEDNAU, Sebastian ROUSTAIE, Farough DASSINGER, Florian WICK, Konja (74) dr. R.C. van Duijvenbode c.s. (31) 102017104906 (32) 08.03.2017 (33) Germany (47) 05.10.2022
(51) C12Q 1/683 (11) EP3665306 (21) EP18758742.3 (22) 10.08.2018 (54) RNA IDENTITY METHOD USING RNASE H DIGESTION AND SIZE FRACTIONATING	(74) ir. A. Blokland c.s. (31) 17194293 (32) 02.10.2017 (33) European Patent Office (EPO) (47) 21.12.2022	(74) dr. R.C. van Duijvenbode c.s. (31) 102017104906 (32) 08.03.2017 (33) Germany (47) 05.10.2022
(51) C12Q 1/685 (11) EP3591070 (21) EP19189091.2 (22) 27.11.2015 (54) DNA IMPURITIES IN A COMPOSITION COMPRISING A PARVOVIRAL VIRION	(51) C23C 2/00 C23C 2/04 C23C 2/06 (11) EP3880860 (21) EP19801839.2 (22) 08.11.2019 (54) METHOD FOR THE ZINC PLATING, IN PARTICULAR GALVANISING, OF IRON AND STEEL PRODUCTS	(51) C25D 5/26 C25D 3/30 C25D 9/10 C25D 3/32 C25D 5/36 (11) EP3255180 (21) EP16746740.6 (22) 08.02.2016 (54) METHOD OF MANUFACTURING A CHEMICALLY TREATED SN PLATED STEEL SHEET
(73) GlaxoSmithKline Biologicals SA (72) KOODATHINGAL, Prakash ZHANG, Ying (31) 201762544096 P (32) 11.08.2017 (33) United States of America (47) 19.10.2022	(73) Fontaine Holdings NV (72) PINGER, Thomas BAUMGÜRTEL, Lars (74) ir. W.J.J.M. Kempes (31) 102019108033 102019107941 102019104766 (32) 28.03.2019 27.03.2019 25.02.2019 (33) Germany Germany Germany (47) 02.11.2022	(73) Nippon Steel Corporation (72) FUTABA, Takashi GOTO, Yasuto (74) ir. A. Blokland c.s. (31) 2015022385 (32) 06.02.2015 (33) Japan (47) 28.12.2022
(51) C12Q 1/6869 C12Q 1/6851 (11) EP3591070 (21) EP19189091.2 (22) 27.11.2015 (54) DNA IMPURITIES IN A COMPOSITION COMPRISING A PARVOVIRAL VIRION	(73) uniQure IP B.V. (72) LUBELSKI, Jacek HERMENS, Wilhelmus Theodorus Johannes M. C. (74) dr. R.C. van Duijvenbode c.s. (31) 14195464 (32) 28.11.2014 (33) European Patent Office (EPO) (47) 21.12.2022	(73) Nippon Steel Corporation (72) FUTABA, Takashi GOTO, Yasuto (74) ir. A. Blokland c.s. (31) 2015022385 (32) 06.02.2015 (33) Japan (47) 28.12.2022
(51) C12Q 1/6881 G01N 27/447 C12Q 1/6883 (11) EP3533882 (21) EP19163862.6 (22) 15.10.2014 (54) MAJOR HISTOCOMPATIBILITY COMPLEX SINGLE NUCLEOTIDE POLYMORPHISMS	(51) C23C 14/50 (11) EP3583243 (21) EP18708327.4 (22) 16.02.2018 (54) TOOL FIXTURE FOR MULTIPLE PROCESS STEPS	(51) C25D 11/24 C25D 13/20 C25D 13/22 C23C 22/83 (11) EP3497268 (21) EP17758687.2 (22) 14.08.2017 (54) METHODS FOR TREATING A METAL SUBSTRATE AND SUBSTRATE TREATED BY THE METHOD
(73) Illumina, Inc. (72) HOGAN, Hayley Marianne MERCOURIA, Karolina SAYER, David Charles (74) ir. W.J.J.M. Kempes (31) 2013903971 (32) 15.10.2013 (33) Australia (47) 30.11.2022	(73) Oerlikon Surface Solutions AG, Pfäffikon (72) VOGEL, Remo ROMBACH, Mario BARTHOLET, Philipp DEMIRI, Masar MUELLER, Dieter HEGERSWEILER, Sven WALT, Roger SIEBERT, Max BENEDIKT, Sebastian (74) dr. R.C. van Duijvenbode c.s. (31) 201762459665 P (32) 16.02.2017 (33) United States of America (47) 05.10.2022	(73) PRC-Desoto International, Inc. (72) FLEGNY, Anaïs Mauricette Christiana SUTER, II, John D. POST, Gordon L. MAYO, Michael A. MORRIS, Eric L. (74) dr. W.A.H.M. Van Borm (31) 201662374188 P (32) 12.08.2016 (33) United States of America (47) 28.12.2022
(51) C12Q 1/6886 C12Q 1/6844 G16B 30/00 G16B 5/00 G16B 20/00 G16B 25/00 G16B 5/20 (11) EP3692172 (21) EP18773212.8 (22) 27.09.2018 (54) ASSESSMENT OF JAK-STAT3 CELLULAR SIGNALING PATHWAY	(33) United States of America (47) 05.10.2022 (51) C25D 1/00 C25D 1/04 C25D 3/38 H01L 23/00 H01M 4/75 H05K 3/24 H05K 3/40 B82Y 40/00 H01M 4/04 (11) EP3592696	(51) D04H 1/485 D04H 1/4291 D04H 1/541 D04H 1/544 B01D 39/16 D06N 7/00 E02D 17/20 (11) EP3825449 (21) EP20211118.3 (22) 17.03.2017

(54) NON-WOVEN STRUCTURE WITH FIBRES CATALYZED BY A METALLOCENE CATALYST	(74) dr. R.C. van Duijvenbode c.s. (31) 102018003875 (32) 15.05.2018 (33) Germany (47) 12.10.2022	HOPPE, Christian (74) ir. A. Blokland c.s. (31) 102016124755 (32) 19.12.2016 (33) Germany (47) 16.11.2022
(73) Beaulieu International Group NV (72) VROMMAN, Tim DE KEYZER, Daan	(51) D07B 1/02 F16G 11/00 D07B 1/14 D07B 1/20	(51) E02D 27/42 E04H 12/22 C08G 18/48 C08G 101/00
(74) M.A.T. Beck MSc LL.B (31) 201605213 (32) 24.03.2016 (33) Belgium (47) 26.10.2022	(11) EP3245331 (21) EP16704065.8 (22) 14.01.2016 (54) A MOORING MEMBER (73) Calorflex AS (72) BOYE HANSEN, Allan SÖRENSEN, Peter	(11) EP3097236 (21) EP15758918.5 (22) 15.01.2015 (54) POLYURETHANE FOAM IN FOUNDATION FOOTINGS FOR LOAD-BEARING STRUCTURES (73) Royal Adhesives & Sealants Canada Ltd. (72) BOTRIE, Alexander GOODMAN, Neil
(51) D04H 1/587 D04H 1/64 D04H 3/12 D06N 5/00 (11) EP3966379 (21) EP21713059.0 (22) 25.03.2021	(47) 02.11.2022 (51) E01B 27/17 E01B 35/06 B61L 23/04 E01B 27/16 G01C 15/00	(31) 201461928453 P (32) 17.01.2014 (33) United States of America (47) 14.12.2022 (51) E02D 29/073 E02D 29/16 E21D 11/38
(54) BITUMINOUS MEMBRANES WITH BIODEGRADABLE BINDER (73) Freudenberg Performance Materials SE & Co. KG	(32) 15.01.2015 (33) Norway (47) 02.11.2022 (51) E01B 27/17 E01B 35/06 B61L 23/04 E01B 27/16 G01C 15/00	(74) dr. R.C. van Duijvenbode c.s. (31) 20150074 (32) 15.01.2015 (33) Norway (47) 02.11.2022 (51) E01B 27/17 E01B 35/06 B61L 23/04 E01B 27/16 G01C 15/00
(72) ASSUMMA, Luca CONVERSO, Maria D'ANDRIA, Laura	(11) EP3622114 (21) EP18721287.3 (22) 11.04.2018 (54) METHOD FOR CONTROLLING A TRACK CONSTRUCTION MACHINE (73) Track Machines Connected Gesellschaft m.b.H.	(74) J.M.H. Duyver lic. (31) 20211895 20170583 20166708 (32) 04.12.2020 21.04.2020 30.03.2020 (33) European Patent Office (EPO) European Patent Office (EPO) European Patent Office (EPO) (47) 26.10.2022 (51) E02D 29/073 E02D 29/16 E21D 11/38 (11) EP3480369 (21) EP18154043.6 (22) 30.01.2018 (54) INTEGRATED IMMERSSED TUBE SECTION AND INSTALLATION METHOD THEREOF AS WELL AS INSTALLATION AND CLOSURE METHOD OF IMMERSSED TUBE SECTIONS (73) CCC Highways Consultants Co., Ltd (72) LIN, Wei LIU, Xiaodong LIN, Ming LI, Yi
(74) J.M.H. Duyver lic. (31) 20211895 20170583 20166708	(32) 12.05.2017 (33) Austria (47) 26.10.2022 (51) E01C 11/18 E01C 11/06 E01C 11/14 E04B 1/48 E04B 5/32 E04C 5/04 E04C 5/18	(74) J.M.H. Duyver lic. (31) 20211895 20170583 20166708 (32) 04.12.2020 21.04.2020 30.03.2020 (33) European Patent Office (EPO) European Patent Office (EPO) European Patent Office (EPO) (47) 26.10.2022 (51) E01C 11/18 E01C 11/06 E01C 11/14 E04B 1/48 E04B 5/32 E04C 5/04 E04C 5/18
(32) 04.12.2020 21.04.2020 30.03.2020	(72) BÜRGER, Martin (74) ir. W.J.J.M. Kempes (31) 1962017 (32) 12.05.2017 (33) Austria (47) 26.10.2022 (51) E01C 11/18 E01C 11/06 E01C 11/14 E04B 1/48 E04B 5/32 E04C 5/04 E04C 5/18	(74) J.M.H. Duyver lic. (31) 20211895 20170583 20166708 (32) 04.12.2020 21.04.2020 30.03.2020 (33) European Patent Office (EPO) European Patent Office (EPO) European Patent Office (EPO) (47) 26.10.2022 (51) E01C 11/18 E01C 11/06 E01C 11/14 E04B 1/48 E04B 5/32 E04C 5/04 E04C 5/18
(33) European Patent Office (EPO) European Patent Office (EPO) European Patent Office (EPO)	(11) EP3622114 (21) EP18721287.3 (22) 11.04.2018 (54) METHOD FOR CONTROLLING A TRACK CONSTRUCTION MACHINE (73) Track Machines Connected Gesellschaft m.b.H.	(74) J.M.H. Duyver lic. (31) 20211895 20170583 20166708 (32) 04.12.2020 21.04.2020 30.03.2020 (33) European Patent Office (EPO) European Patent Office (EPO) European Patent Office (EPO) (47) 26.10.2022 (51) E01C 11/18 E01C 11/06 E01C 11/14 E04B 1/48 E04B 5/32 E04C 5/04 E04C 5/18
(47) 26.10.2022	(72) BÜRGER, Martin (74) ir. W.J.J.M. Kempes (31) 1962017 (32) 12.05.2017 (33) Austria (47) 26.10.2022 (51) E01C 11/18 E01C 11/06 E01C 11/14 E04B 1/48 E04B 5/32 E04C 5/04 E04C 5/18	(74) J.M.H. Duyver lic. (31) 20211895 20170583 20166708 (32) 04.12.2020 21.04.2020 30.03.2020 (33) European Patent Office (EPO) European Patent Office (EPO) European Patent Office (EPO) (47) 26.10.2022 (51) E01C 11/18 E01C 11/06 E01C 11/14 E04B 1/48 E04B 5/32 E04C 5/04 E04C 5/18
(51) D04H 3/013 B32B 5/26 D04H 3/08 D04H 1/28 D04H 1/4258	(11) EP3607129 (21) EP18713925.8 (22) 28.03.2018 (54) NONWOVEN CELLULOSE FIBER FABRIC WITH TAILORED LIQUID WICKING CAPABILITY (73) Lenzing Aktiengesellschaft (72) CARLYLE, Tom EINZMANN, Mirko GOLDHALM, Gisela HAYHURST, Malcolm John MAYER, Katharina SAGERER-FORIC, Ibrahim	(74) J.M.H. Duyver lic. (31) 20211895 20170583 20166708 (32) 04.12.2020 21.04.2020 30.03.2020 (33) European Patent Office (EPO) European Patent Office (EPO) European Patent Office (EPO) (47) 26.10.2022 (51) E01C 11/18 E01C 11/06 E01C 11/14 E04B 1/48 E04B 5/32 E04C 5/04 E04C 5/18
(11) EP3607129 (21) EP18713925.8 (22) 28.03.2018	(72) BÜRGER, Martin (74) ir. W.J.J.M. Kempes (31) 1962017 (32) 12.05.2017 (33) Austria (47) 26.10.2022 (51) E01C 11/18 E01C 11/06 E01C 11/14 E04B 1/48 E04B 5/32 E04C 5/04 E04C 5/18	(74) J.M.H. Duyver lic. (31) 20211895 20170583 20166708 (32) 04.12.2020 21.04.2020 30.03.2020 (33) European Patent Office (EPO) European Patent Office (EPO) European Patent Office (EPO) (47) 26.10.2022 (51) E01C 11/18 E01C 11/06 E01C 11/14 E04B 1/48 E04B 5/32 E04C 5/04 E04C 5/18
(54) NONWOVEN CELLULOSE FIBER FABRIC WITH TAILORED LIQUID WICKING CAPABILITY	(11) EP3978687 (21) EP21199331.6 (22) 28.09.2021 (54) STUD HOLDER BASKET (73) Societe Nouvelle Sotralentz Construction (72) GANGLOFF, Christophe HUDER, Pierre	(74) J.M.H. Duyver lic. (31) 20211895 20170583 20166708 (32) 04.12.2020 21.04.2020 30.03.2020 (33) European Patent Office (EPO) European Patent Office (EPO) European Patent Office (EPO) (47) 26.10.2022 (51) E01C 11/18 E01C 11/06 E01C 11/14 E04B 1/48 E04B 5/32 E04C 5/04 E04C 5/18
(73) Lenzing Aktiengesellschaft (72) CARLYLE, Tom EINZMANN, Mirko GOLDHALM, Gisela HAYHURST, Malcolm John MAYER, Katharina SAGERER-FORIC, Ibrahim	(74) ir. W.J.J.M. Kempes (31) 2010092 (32) 02.10.2020 (33) France (47) 14.12.2022 (51) E01F 8/00 (11) EP3555370 (21) EP17826166.5 (22) 13.12.2017 (54) SOUND-ABSORBING CONSTRUCTION COMPONENT HAVING EXTINGUISHING PROFILES AND SOUND PROTECTION WALL (73) Liaver GmbH & Co. KG (72) TSCHIERSCHE, Ronald	(74) J.M.H. Duyver lic. (31) 20211895 20170583 20166708 (32) 04.12.2020 21.04.2020 30.03.2020 (33) European Patent Office (EPO) European Patent Office (EPO) European Patent Office (EPO) (47) 26.10.2022 (51) E01C 11/18 E01C 11/06 E01C 11/14 E04B 1/48 E04B 5/32 E04C 5/04 E04C 5/18
(74) ir. W.J.J.M. Kempes (31) 17164623 (32) 03.04.2017 (33) European Patent Office (EPO) (47) 02.11.2022	(74) ir. W.J.J.M. Kempes (31) 2010092 (32) 02.10.2020 (33) France (47) 14.12.2022 (51) E01F 8/00 (11) EP3555370 (21) EP17826166.5 (22) 13.12.2017 (54) SOUND-ABSORBING CONSTRUCTION COMPONENT HAVING EXTINGUISHING PROFILES AND SOUND PROTECTION WALL (73) Liaver GmbH & Co. KG (72) TSCHIERSCHE, Ronald	(74) J.M.H. Duyver lic. (31) 20211895 20170583 20166708 (32) 04.12.2020 21.04.2020 30.03.2020 (33) European Patent Office (EPO) European Patent Office (EPO) European Patent Office (EPO) (47) 26.10.2022 (51) E01C 11/18 E01C 11/06 E01C 11/14 E04B 1/48 E04B 5/32 E04C 5/04 E04C 5/18
(51) D06F 67/04 (11) EP3569762 (21) EP19173520.8 (22) 09.05.2019	(74) ir. W.J.J.M. Kempes (31) 2010092 (32) 02.10.2020 (33) France (47) 14.12.2022 (51) E01F 8/00 (11) EP3555370 (21) EP17826166.5 (22) 13.12.2017 (54) SOUND-ABSORBING CONSTRUCTION COMPONENT HAVING EXTINGUISHING PROFILES AND SOUND PROTECTION WALL (73) Liaver GmbH & Co. KG (72) TSCHIERSCHE, Ronald	(74) J.M.H. Duyver lic. (31) 20211895 20170583 20166708 (32) 04.12.2020 21.04.2020 30.03.2020 (33) European Patent Office (EPO) European Patent Office (EPO) European Patent Office (EPO) (47) 26.10.2022 (51) E01C 11/18 E01C 11/06 E01C 11/14 E04B 1/48 E04B 5/32 E04C 5/04 E04C 5/18
(54) METHOD AND DEVICE FOR SPREADING LAUNDRY (73) Herbert Kannegiesser GmbH (72) Bringewatt, Wilhelm Heinz, Engelbert	(74) ir. W.J.J.M. Kempes (31) 2010092 (32) 02.10.2020 (33) France (47) 14.12.2022 (51) E01F 8/00 (11) EP3555370 (21) EP17826166.5 (22) 13.12.2017 (54) SOUND-ABSORBING CONSTRUCTION COMPONENT HAVING EXTINGUISHING PROFILES AND SOUND PROTECTION WALL (73) Liaver GmbH & Co. KG (72) TSCHIERSCHE, Ronald	(74) J.M.H. Duyver lic. (31) 20211895 20170583 20166708 (32) 04.12.2020 21.04.2020 30.03.2020 (33) European Patent Office (EPO) European Patent Office (EPO) European Patent Office (EPO) (47) 26.10.2022 (51) E01C 11/18 E01C 11/06 E01C 11/14 E04B 1/48 E04B 5/32 E04C 5/04 E04C 5/18

(54) SANITARY ARTICLE ASSEMBLY WITH HEIGHT ADJUSTMENT	(32) 29.10.2010	(74) ir. A. Blokland c.s.
(73) Geberit International AG	(33) European Patent Office (EPO)	(31) 102019120525
(72) ZWICKER, Maurus	(47) 12.10.2022	(32) 30.07.2019
(74) ir. J.C. Volmer c.s.	(51) E04F 10/06	(33) Germany
(47) 12.10.2022	E06B 9/72	(47) 09.11.2022
(51) E03F 5/02	(11) EP3830360	(51) E04H 12/12
(11) EP3631103	(21) EP19745151.1	B66C 23/20
(21) EP18725852.0	(22) 30.07.2019	F03D 13/10
(22) 23.05.2018	(54) ELECTROMECHANICAL ACTUATOR, SCREEN DRIVING SYSTEM, CLOSING INSTALLATION OR SOLAR PROTECTION INSTALLATION	F03D 13/20
(54) INSPECTION CHAMBER PART	COMPRISING SUCH A SYSTEM	E04H 12/34
(73) Wavin B.V.	AND METHOD FOR REPLACING A BATTERY IN SUCH AN ACTUATOR OR SYSTEM	B66C 23/18
(72) HAITJEMA, Dirk Jan	(73) SOMFY ACTIVITES SA	(11) EP3464754
BRÜMMER, Günter	(72) ROBERT, Hélène	(21) EP17726599.8
AYDEMIR, Alpay	(74) dr. R.C. van Duijvenbode c.s.	(22) 23.05.2017
BESTEN, Marco W.J.	(31) 1857166	(54) CLIMBING DEVICE FOR CARRYING OUT A MOVEMENT RELATIVE TO A TOWER AND METHOD FOR PRODUCING A TOWER
(74) dr. ir. F.M. van Bouwelen	(32) 31.07.2018	(73) Wobben Properties GmbH
(31) 1042411	(33) France	(72) KNOOP, Frank
(32) 31.05.2017	(47) 19.10.2022	(74) dr. R.C. van Duijvenbode c.s.
(33) Netherlands	(51) E04F 15/02	(31) 102016109818
(47) 21.12.2022	E04F 15/04	(32) 27.05.2016
(51) E04B 5/32	(11) EP3741925	(33) Germany
E04B 1/76	(21) EP20167679.8	(47) 02.11.2022
(11) EP3070222	(22) 02.04.2020	(51) E04H 15/34
(21) EP16160937.5	(54) WOODEN TERRACE WITH GAP SEALING ELEMENT AND METHOD FOR CLOSING JOINTS IN WOODEN TERRACES	E04B 1/58
(22) 17.03.2016	(73) Habian, Wolfgang	F16B 7/18
(54) PREFABRICATED CONSTRUCTION ELEMENT AND METHOD FOR MANUFACTURING SUCH A PREFABRICATED CONSTRUCTION ELEMENT	(72) Habian, Wolfgang	F16B 12/50
(73) KP1	(74) ir. H.J.G. Lips c.s.	F16B 12/44
(72) Benoit, Yuraima	(31) 1902019	A47B 47/00
Py, Jean-Paul	(32) 20.05.2019	E04F 10/00
(74) ir. H.A. Witmans c.s.	(33) Austria	(11) EP3420161
(31) 1552191	(47) 12.10.2022	(21) EP17717221.0
1552193	(51) E04G 1/14	(22) 20.02.2017
(32) 17.03.2015	E04G 5/16	(54) STRUCTURE WITH HOLLOW OR PARTIALLY HOLLOW STRUCTURAL ELEMENTS, WITH MODULAR AND IMPROVED SYSTEM OF JOINTS
17.03.2015	E04G 11/48	(73) Esdra SRL Unipersonale
(33) France	E04G 1/24	(72) AMADARDO, Gianfranco
France	(11) EP3477017	(74) J.M.H. Duyver lic.
(47) 09.11.2022	(21) EP18202238.4	(31) UB20160974
(51) E04C 5/08	(22) 24.10.2018	(32) 23.02.2016
(11) EP3787884	(54) SCAFFOLD FRAME WITH CLIMBING AID	(33) Italy
(21) EP19795929.9	(73) PERI SE	(47) 12.10.2022
(22) 25.04.2019	(72) Steck, Tobias	(51) E05D 15/06
(54) PRE-COMPRESSION SYSTEM FOR PRE-COMPRESSING A STRUCTURE	(74) ir. W.J.J.M. Kempes	(11) EP3433459
(73) FSC Technologies, LLC	(31) 102017218929	(21) EP17723268.3
(72) SUBACCHI, Claudio	(32) 24.10.2017	(22) 23.03.2017
FERRI, Giovanni	(33) Germany	(54) SLIDING DOOR
(74) dr. R.C. van Duijvenbode c.s.	(47) 14.12.2022	(73) Assa Abloy Entrance Systems AB
(31) 201800005076	(51) E04H 4/14	(72) WOLFE, Jeffrey
(32) 04.05.2018	F21V 15/01	(74) mr. ir. J. van Breda c.s.
(33) Italy	F21V 31/04	(31) 201615080677
(47) 23.11.2022	(11) EP3771787	(32) 25.03.2016
(51) E04D 13/17	(21) EP20176064.2	(33) United States of America
E04D 13/12	(22) 22.05.2020	(47) 14.12.2022
E04G 21/32	(54) UNDERWATER LIGHT	(51) E06B 9/40
(11) EP2633135	(73) LED Linear GmbH	A01G 9/22
(21) EP11776004.1	(72) Schaffarz, Carsten	(11) EP3594440
(22) 28.10.2011	Weißels, Jan	(21) EP19185030.4
(54) ROOF PROVIDED WITH A SAFETY SYSTEM	Bleul, Sören	(22) 08.07.2019
(73) Luchtankers B.V.	Hendricks, Heinz-Jakob	(54) SCREEN SYSTEM AND BUILDING
(72) Borra, Hans Antonius	Küpper, Felix	(73) Verzuu Beheer B.V.
(74) ir. A.R. Aalbers		(72) Verzuu, Daniel Jacobus Hendrikus Gabriel
(31) 10189428		(74) dr. ir. G.J.C. Verdijck c.s.

(31) 2021263	(51) F01K 23/06	(54) FUEL/AIR SUPPLY DEVICE
(32) 06.07.2018	(11) EP3530890	(73) Micro Turbine Technology B.V.
(33) Netherlands	(21) EP18158794.0	(72) KORNILOV, Victor
(47) 26.10.2022	(22) 27.02.2018	DOUTCHEV, Ilian
(51) E06C 1/32	(54) DRIVE WITH INTEGRATED ORC	DE LATER, Marco
(11) EP2811104	(73) Orcan Energy AG	SMEET, Paul
(21) EP14170813.1	(72) Schuster, Andreas	(74) ir. A.E. Dekker-Garms
(22) 02.06.2014	Springer, Jens-Patrick	(31) 2021484
(54) TRANSFORMABLE LADDER SYSTEM WITH ADJUSTABLE LEVEL	Walter, Daniela	(32) 20.08.2018
(73) Tubesca-Comabi	Langer, Roy	(33) Netherlands
(72) Sta, Eric	Aumann, Richard	(47) 05.10.2022
(74) J.M.H. Duyver lic.	(74) dr. R.C. van Duijvenbode c.s.	(51) F02D 41/14
(31) 1355112	(47) 12.10.2022	F02B 71/00
(32) 04.06.2013	(51) F01L 1/18	F01B 11/00
(33) France	F01L 13/00	F02D 39/10
(47) 12.10.2022	(11) EP3899215	H02P 25/06
(51) E21B 36/00	(21) EP19827665.1	F02G 1/043
E21B 43/013	(22) 12.12.2019	(11) EP3436680
F16L 1/19	(54) SWITCHABLE ACTUATION DEVICE	(21) EP16717510.8
F16L 9/18	FOR A POPPET VALVE IN AN	(22) 31.03.2016
F16L 53/00	INTERNAL COMBUSTION ENGINE,	(54) CONTROL OF PISTON TRAJECTORY IN A LINEAR GENERATOR
(11) EP3519669	INTERNAL COMBUSTION ENGINE	(73) Mainspring Energy, Inc.
(21) EP17787499.7	AND MOTOR VEHICLE	(72) GADDA, Christopher
(22) 28.09.2017	(73) MAN Truck & Bus SE	ROELLE, Matthew
(54) METHOD FOR THE OFFSHORE INSTALLATION OF A PREHEATED DOUBLE-WALLED UNDERWATER PIPE FOR TRANSPORTING FLUIDS	(72) HOLLWECK, Johannes	(74) ir. W.J.J.M. Kempes
(73) Saipem SA	BACHMANN, Thorsten	(47) 12.10.2022
(72) COCAULT-DUVERGER, Vincent	(74) ir. A. Blokland c.s.	(51) F03D 7/02
JARDIN, Antoine	(31) 102018132857	(11) EP3808973
CHOJNACKI, Vincent	(32) 19.12.2018	(21) EP20202196.0
(74) dr. ir. G.J.C. Verdijk c.s.	(33) Germany	(22) 16.10.2020
(31) 1659307	(47) 07.12.2022	(54) DEVICE FOR BLADE ANGLE ADJUSTMENT OF ROTOR BLADES OF A WIND ENERGY INSTALLATION
(32) 29.09.2016	(51) F02B 71/04	(73) Siemens Gamesa Renewable Energy Service GmbH
(33) France	F02B 71/00	(72) Hamer, Florian
(47) 26.10.2022	F01B 11/00	(74) ir. W.J.J.M. Kempes
(51) E21B 47/125	F02B 63/04	(31) 102019128233
E21B 33/134	F01B 7/02	(32) 18.10.2019
E21B 47/13	F02B 25/08	(33) Germany
(11) EP3601734	(11) EP2643573	(47) 12.10.2022
(21) EP17715995.1	(21) EP11843714.4	(51) F03D 7/02
(22) 31.03.2017	(22) 17.11.2011	F03D 1/06
(54) MONITORING WELL INSTALLATIONS	(54) HIGH-EFFICIENCY LINEAR COMBUSTION ENGINE	(11) EP3867521
(73) Metrol Technology Ltd	(73) Mainspring Energy, Inc.	(21) EP19801754.3
(72) HUDSON, Steve Martin	(72) SIMPSON, Adam	(22) 31.10.2019
(74) ir. H.J.G. Lips c.s.	SVRCEK, Matt	(54) WIND TURBINE
(47) 28.12.2022	MILLER, Shannon	(73) Siemens Gamesa Renewable Energy A/ S
(51) F01D 5/20	(74) ir. W.J.J.M. Kempes	(72) KRISTENSEN, Mikkel Aggersbjerg
F01D 5/14	(31) 201113102916	(74) dr. R.C. van Duijvenbode c.s.
F04D 29/16	201113298206	(31) 18212368
(11) EP3882436	953270	(32) 13.12.2018
(21) EP21160094.5	953277	(33) European Patent Office (EPO)
(22) 01.03.2021	(32) 06.05.2011	(47) 07.12.2022
(54) ROTOR BLADE FOR A TURBOMACHINE AND CORRESPONDING TURBOMACHINE	16.11.2011	(51) F03D 80/50
(73) General Electric Company	23.11.2010	(11) EP3918198
(72) HONKOMP, Mark Steven	23.11.2010	(21) EP19703941.5
CIRAY, Mehmet Suleyman	(33) United States of America	(22) 31.01.2019
STEIN, Alexander	United States of America	(54) A MAINTENANCE ENCLOSURE AND METHOD FOR MAINTAINING WIND TURBINE BLADES
(74) ir. W.J.J.M. Kempes	United States of America	(73) Hangout A/S
(31) 202016824959	United States of America	(72) LAURSEN, Jens Nygaard
(32) 20.03.2020	(47) 05.10.2022	(47) 26.10.2022
(33) United States of America	(51) F02C 7/10	(51) F04B 39/00
(47) 14.12.2022	F02C 7/224	
	F02C 7/236	
	F02C 9/40	
	F02C 3/30	
	(11) EP3841288	
	(21) EP19829322.7	
	(22) 19.08.2019	

F04B 27/00	(73) fischerwerke GmbH & Co. KG	(73) Qinetiq Limited
F04B 27/04	(72) PFAU, Patrick	(72) FLAXMAN, Robert John Bonner
F04B 27/053	(74) ir. H.J.G. Lips c.s.	THOMPSON, Robert William
F04B 35/01	(31) 102018132029	(74) dr. A. Krebs
F16C 7/02	(32) 13.12.2018	(31) 201800890
(11) EP3751138	(33) Germany	(32) 19.01.2018
(21) EP19751339.3	(47) 21.12.2022	(33) United Kingdom
(22) 14.01.2019	(51) F16D 65/00	(47) 14.12.2022
(54) COMPRESSOR HAVING CURVED CONNECTING RODS	(11) EP3850240	(51) F16L 11/04
(73) Tan, Yu	(21) EP19759357.7	E03C 1/00
Tan, Shiyuan	(22) 26.08.2019	F16L 11/11
(72) Tan, Yu	(54) BRAKE CALIPER OF A DISK BRAKE, AND DISK BRAKE	F16L 11/118
Tan, Shiyuan	(73) KNORR-BREMSE Systeme für Nutzfahrzeuge GmbH	F16L 59/065
(74) dr. A. Krebs	(72) PRITZ, Wolfgang	F16L 59/14
(31) 201810151909	FISCHL, Tobias	F16L 59/15
(32) 06.02.2018	(74) dr. R.C. van Duijvenbode c.s.	F16L 59/153
(33) China	(31) 102018122008	F24D 1/00
(47) 05.10.2022	(32) 10.09.2018	F24F 1/00
(51) F15B 11/18	(33) Germany	B29C 48/00
F15B 11/12	(47) 12.10.2022	B32B 1/08
F16H 27/02	(51) F16G 11/00	(11) EP3699470
A61B 90/11	F16G 13/16	(21) EP20153846.9
A61B 10/02	H02G 3/04	(22) 27.01.2020
A61B 17/00	H02G 7/06	(54) INSULATED PIPE
F16H 55/26	H02G 11/00	(73) Uponor Innovation AB
(11) EP3504445	G02B 6/44	(72) Juurinen, Tero
(21) EP17768877.7	(11) EP3803154	(74) ir. W.J.J.M. Kempes
(22) 23.08.2017	(21) EP19731883.5	(31) 102019104585
(54) PNEUMATIC STEPPER MOTOR AND DEVICE COMPRISING AT LEAST ONE SUCH PNEUMATIC STEPPER MOTOR	(22) 05.06.2019	(32) 22.02.2019
(73) Universiteit Twente	(54) CABLE CHAIN	(33) Germany
(72) GROENHUIS, Vincent	(73) Bentec GmbH Drilling & Oilfield Systems	(47) 09.11.2022
STRAMIGIOLI, Stefano	(72) WIGBELS, Guido	(51) F16L 37/26
SIEPEL, Françoise Jeanette	(74) dr. R.C. van Duijvenbode c.s.	D06F 58/20
(74) dr. ir. G.J.C. Verdijck c.s.	(31) 102018208828	D06F 57/00
(31) 201762522734 P	(32) 05.06.2018	D06F 59/00
201662378261 P	(33) Germany	(11) EP3683484
(32) 21.06.2017	(47) 12.10.2022	(21) EP20150669.8
23.08.2016	(51) F16G 13/16	(22) 08.01.2020
(33) United States of America	(11) EP3054192	(54) PIPE COUPLING SYSTEM
United States of America	(21) EP16161492.0	(73) Jannach, Helmut
(47) 05.10.2022	(22) 30.03.2012	(72) Jannach, Helmut
(51) F15B 15/18	(54) ENERGY GUIDE CHAIN WITH DEFORMABLE JOINT ELEMENTS	(74) ir. W.J.J.M. Kempes
F15B 1/26	(73) Igus GmbH	(31) 500322019
(11) EP3098457	(72) BLASE, Günter	(32) 16.01.2019
(21) EP16171374.8	JAEKER, Thilo-Alexander	(33) Austria
(22) 25.05.2016	(74) dr. ir. G.J.C. Verdijck c.s.	(47) 28.09.2022
(54) HYDROSTATIC LINEAR ACTUATOR AND ASSEMBLY WITH HYDROSTATIC LINEAR ACTUATORS	(31) 202011004785 U	(51) F17D 5/00
(73) Robert Bosch GmbH	(32) 01.04.2011	(11) EP3891432
(72) Caspers, Leo	(33) Germany	(21) EP19832189.5
Rolink, Chris	(47) 12.10.2022	(22) 26.11.2019
Boeijen, Sander	(51) F16H 3/24	(54) GAS NETWORK AND METHOD FOR DETECTING OBSTRUCTIONS IN A GAS NETWORK UNDER PRESSURE OR UNDER VACUUM
Donkers, Chris	F16H 3/66	(73) ATLAS COPCO AIRPOWER, naamloze vennootschap
(74) ir. H.A. Witmans c.s.	F16H 3/70	(72) GEUENS, Philippe
(31) 102015209644	B60K 7/00	LOUARROUDI, Ebrahim
(32) 27.05.2015	B60K 17/02	(74) dr. R.C. van Duijvenbode c.s.
(33) Germany	F16D 21/04	(31) 201805860
(47) 26.10.2022	F16D 11/08	(32) 07.12.2018
(51) F16B 5/02	F16D 11/10	(33) Belgium
F16B 13/06	F16D 11/14	(47) 05.10.2022
(11) EP3894711	F16H 3/083	(51) F21S 4/10
(21) EP19813505.5	(11) EP3740701	F21V 31/00
(22) 02.12.2019	(21) EP19700914.5	F21Y 115/10
(54) EXPANSION ANCHOR	(22) 16.01.2019	(11) EP3760913
	(54) GEARING ASSEMBLY AND GEARING APPARATUS	(21) EP20183630.1

(22) 02.07.2020	(54) HEATING APPARATUS	(72) MERCER, Kevin
(54) HIGH-VOLTAGE LAMP STRING AND SYSTEM	(73) Focal Point Fires Plc	PARK, Deokgeun
(72) HE, Yaowen	(72) DAVISON, Peter James	(74) J.M.H. Duyver lic.
(74) ir. W.J.J.M. Kempes	(74) dr. R.C. van Duijvenbode c.s.	(31) 201916372998
(31) 201921022655 U	(31) 201820239	(32) 02.04.2019
(32) 02.07.2019	(32) 12.12.2018	(33) United States of America
(33) China	(33) United Kingdom	(47) 14.12.2022
(47) 05.10.2022	(47) 09.11.2022	(51) F27B 9/20
(51) F21V 21/30	(51) F24D 10/00	F27D 25/00
F21S 2/00	F24D 19/10	(11) EP3903057
F21V 29/75	(11) EP3092445	(21) EP19845707.9
(11) EP3837471	(21) EP15700216.3	(22) 17.12.2019
(21) EP19801195.9	(22) 09.01.2015	(54) WALKING BEAM FURNACE FOR CONTINUOUSLY DISCHARGING AND SHREDDING SCALE
(22) 15.08.2019	(54) THERMAL ENERGY NETWORK	(73) Fives Stein
(54) LUMINAIRE FOR WORK EVENTS, FILM EVENTS OR SPORTS EVENTS	(73) Erda Master IPCO Limited	(72) MATERNOVA, Michel
(73) Nölle, Jürgen	(72) ZAYNULIN, Dmitriy	(74) ir. W.J.J.M. Kempes
(72) Nölle, Jürgen	ARDIS, Michael	(31) 1874133
(74) ir. F.A. Geurts c.s.	DAVIS, Gregory	(32) 24.12.2018
(31) 102018006506	HAYES, John	(33) France
(32) 17.08.2018	STICKNEY, Kevin	(47) 19.10.2022
(33) Germany	LEIPER, Alban	(51) F28D 7/06
(47) 05.10.2022	(74) ir. A. Blokland c.s.	F28F 1/02
(51) F23R 3/00	(31) 201400324	F28F 1/08
(11) EP3593048	(32) 09.01.2014	F28F 1/06
(21) EP18715503.1	(33) United Kingdom	F28F 13/14
(22) 15.03.2018	(47) 12.10.2022	C10G 9/20
(54) SILO COMBUSTION CHAMBER AND METHOD FOR RETROFITTING SAME	(51) F24S 25/13	(11) EP3745071
(73) Siemens Energy Global GmbH & Co. KG	F24S 25/16	(21) EP20176929.6
(72) WINTERSTEIN, Michael	F24S 25/65	(22) 27.05.2020
JÄKEL, Christian	(11) EP3803228	(54) TUBE COMPRISING AT LEAST ONE TWISTED SEGMENT WITH ELLIPTIC OR LOBED SECTION FOR A STEAM CRACKING FURNACE
LINNEMANN, Katrin	(21) EP19729724.5	(73) Manoir Pitres
GAIO, Giuseppe	(22) 06.06.2019	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE
VONNEMANN, Bernd	(54) ASSEMBLY SYSTEM FOR ASSEMBLING PHOTOVOLTAIC MODULES ON ROOFS, COMPRISING ASSEMBLY SYSTEM COMPONENTS WHICH ARE CONNECTED BY LATCHING CONNECTIONS	(72) INDURAIN Y URRICELQUI, Bruce
MOSQUERA RUIZ, Maria de la Paz	(73) Premium Mounting Technologies GmbH & Co. KG	LALOT, Sylvain
TERZIS, Petros	(72) GRASS, Peter	COUVRAT, Mathieu
REHMANN, Sonja	(74) ir. W.J.J.M. Kempes	BEAUBERT, François
(74) dr. R.C. van Duijvenbode c.s.	(31) 202018103244 U	UYSTEPRUYST, David
(31) 102017207392	(32) 08.06.2018	(74) ir. W.J.J.M. Kempes
(32) 03.05.2017	(33) Germany	(31) 1905801
(33) Germany	(47) 05.10.2022	(32) 31.05.2019
(47) 09.11.2022	(51) F25B 1/10	(33) France
(51) F23R 3/28	F25B 5/02	(47) 28.09.2022
F23R 3/34	F25B 9/00	(51) F28D 20/02
(11) EP3584501	F25B 41/00	(11) EP3857155
(21) EP19179795.0	(11) EP3295093	(21) EP19801400.3
(22) 12.06.2019	(21) EP15721712.6	(22) 30.09.2019
(54) BURNER SYSTEM AND METHOD FOR GENERATING HOT GAS IN A GAS TURBINE PLANT	(22) 12.05.2015	(54) HEAT BATTERY AND PROCESS OF MANAGING EXPANSION AND/OR VOLUMETRIC CHANGES WITHIN A BATTERY CELL CASE.
(73) Deutsches Zentrum für Luft- und Raumfahrt e.V.	(54) EJECTOR REFRIGERATION CIRCUIT AND METHOD OF OPERATING SUCH A CIRCUIT	(73) Sunamp Limited
(72) Zornek, Timo	(73) Carrier Corporation	(72) GATAORA, Santokh Singh
Schwärzle, Andreas	(72) SIEGERT, Jan	BISSELL, Andrew
Setzwein, Florian	GASSEN, Heinz	ZAGLIO, Maurizio
Grimm, Felix	(74) dr. R.C. van Duijvenbode c.s.	(74) dr. A. Krebs
(74) ir. W.J.J.M. Kempes	(47) 19.10.2022	(31) 201815821
(31) 102018114870	(51) F25B 41/31	(32) 28.09.2018
(32) 20.06.2018	(11) EP3719419	(33) United Kingdom
(33) Germany	(21) EP20165327.6	(47) 05.10.2022
(47) 07.12.2022	(22) 24.03.2020	(51) G01C 21/00
(51) F24C 7/00	(54) MULTI-PORT VARIABLE EXPANSION PLUNGER VALVE	G08G 1/01
(11) EP3667171	(73) Carrier Corporation	(11) EP3828501
(21) EP19215407.8		
(22) 11.12.2019		

- (21) EP20193128.4
(22) 27.08.2020
(54) METHOD AND SYSTEM FOR ESTIMATING A TRAJECTORY FROM GPS DATA POINTS
(73) Tata Consultancy Services Limited
(72) Regikumar, Rohith
Achar, Avinash
Jayaprakash, Rajesh
Sivasubramaniam, Anand
(74) dr. ir. G.J.C. Verdijck c.s.
(31) 201921049198
(32) 29.11.2019
(33) India
(47) 19.10.2022
(51) G01C 21/32
(11) EP3526547
(21) EP17790703.7
(22) 11.10.2017
(54) REPORTING LOCATIONS BEING ASSOCIATED WITH A PROBLEM
(73) HERE Global B.V.
(72) SYRJÄRINNE, Jari Tapani
IVANOV, Pavel
WIROLA, Lauri Aarne
KHAN, Muhammad Irshan
(74) ir. A. Blokland c.s.
(31) 201615294189
(32) 14.10.2016
(33) United States of America
(47) 23.11.2022
(51) G01D 4/00
G01R 22/06
G01D 21/00
(11) EP3982087
(21) EP20397513.1
(22) 09.10.2020
(54) AN ELECTRICITY METERING DEVICE
(73) Aidon Oy
(72) LOHVANSUU, Juha
(74) dr. W.A.H.M. Van Borm
(47) 05.10.2022
(51) G01F 1/325
G01F 1/32
G01F 15/12
(11) EP3676569
(21) EP18849499.1
(22) 29.08.2018
(54) VORTEX FLOWMETER HAVING INJECTION CLEANING PORTS
(73) Schneider Electric Systems USA, Inc.
(72) LOPERA, Javier
DESSERT, Wayne A.
COLLINS, Lou
(74) dr. R.C. van Duijvenbode c.s.
(31) 201715691263
(32) 30.08.2017
(33) United States of America
(47) 12.10.2022
(51) G01F 1/58
G01F 1/60
(11) EP3814724
(21) EP19726669.5
(22) 23.05.2019
(54) METHOD FOR COMMISSIONING A MAGNETIC INDUCTIVE FLOWMETER, AND A MAGNETIC INDUCTIVE FLOWMETER
(73) Endress + Hauser Flowtec AG
(72) TSCHAMBSEER, Florent
DREHER, Lars
KAPPERTZ, Fred
(74) ir. W.J.J.M. Kempes
(31) 102018115628
(32) 28.06.2018
(33) Germany
(47) 02.11.2022
(51) G01F 1/66
B22F 10/20
G01F 15/14
(11) EP3660469
(21) EP19200248.3
(22) 27.09.2019
(54) ULTRASONIC TRANSDUCER WITH A SEALED 3D-PRINTED MINI-HORN ARRAY
(73) Micro Motion, Inc.
(72) Groeschel, Kerry D
Straub, Henry C
Mezheritsky, Alex
(74) dr. R.C. van Duijvenbode c.s.
(31) 201816149068
(32) 01.10.2018
(33) United States of America
(47) 30.11.2022
(51) G01F 1/663
G01F 15/00
G01F 1/90
G01F 1/84
G01F 1/68
G01F 1/66
G01F 1/58
G01F 1/56
G01F 1/46
G01F 1/44
G01F 1/42
G01F 1/34
G01F 1/32
G01F 1/26
G01F 1/22
(11) EP3304007
(21) EP16733667.6
(22) 27.05.2016
(54) IMPROVED FLOW MEASUREMENT APPARATUS AND METHOD OF USE
(73) GM Flow Measurement Services Limited
(72) MUNRO, Gavin
(74) mr. ir. J. van Breda c.s.
(31) 201509334
(32) 29.05.2015
(33) United Kingdom
(47) 12.10.2022
(51) G01F 1/84
G01F 15/18
F16L 3/00
(11) EP3472577
(21) EP16905776.7
(22) 21.06.2016
(54) A SENSOR ASSEMBLY, SENSOR BRACKET, AND TUBE RING FOR A VIBRATORY CONDUIT
(73) Micro Motion, Inc.
(72) ZI, Xue
GARNETT, Robert Barclay
XU, Yingxue
FENG, Xiang
(74) dr. R.C. van Duijvenbode c.s.
(47) 16.11.2022
(51) G01F 15/00
G01F 1/68
C09K 5/10
G01N 25/20
G01N 33/28
(11) EP3760983
(21) EP19183880.4
(22) 02.07.2019
(54) CONTROL VALVE AND METHOD FOR ESTIMATING PARAMETERS OF A FLUID
(73) Siemens Aktiengesellschaft
(72) Glöckle, Steffen
Oßwald, Sven
Schmanau, Mike
Wetzel, Martin
(74) dr. R.C. van Duijvenbode c.s.
(47) 05.10.2022
(51) G01F 19/00
B65D 33/16
B65D 77/24
(11) EP3221669
(21) EP15787991.7
(22) 29.10.2015
(54) CLIP-SCOOP WITH ANTI-SLIPPING FUNCTIONALITY
(73) Société des Produits Nestlé S.A.
(72) NUIJEN, Rik
SCHOENMAKERS, Angela
SCHRAML, Rafael
(74) ir. F.A. Geurts c.s.
(31) 14193610
(32) 18.11.2014
(33) European Patent Office (EPO)
(47) 05.10.2022
(51) G01F 23/263
G01F 23/80
G01F 25/20
G01F 23/00
(11) EP3701254
(21) EP18870139.5
(22) 13.11.2018
(54) CAPACITANCE SENSING APPARATUS AND METHOD FOR DETECTING GAS-LIQUID TRANSITIONS
(73) Flowserve Management Company
(72) SHARMA, Akshat
XIE, Ruihua
CORNWELL, Peter Charles
(74) ir. J.C. Volmer c.s.
(47) 05.10.2022
(51) G01G 19/02
G08G 1/02
G08G 1/052
(11) EP2850401
(21) EP13723399.5
(22) 15.05.2013
(54) SENSOR MODULE OF A WIM SYSTEM AND MEASUREMENT METHOD
(73) Kistler Holding AG
(72) CORNU, David
HOFMANN, Adrian
(31) 697122012
(32) 16.05.2012
(33) Switzerland

(47) 16.11.2022	(51) G01N 27/327	Gattiker, Felix
(51) G01L 5/24	G01N 33/487	(74) mr. ir. J. van Breda c.s.
B25B 23/14	(11) EP2737306	(47) 30.11.2022
F16B 31/02	(21) EP12741249.2	(51) G01N 33/02
F16L 15/00	(22) 25.07.2012	G01N 21/359
F16L 25/04	(54) ENCODED BIOSENSORS AND	G01N 21/35
(11) EP3627125	METHODS OF MANUFACTURE	G01N 35/00
(21) EP18195478.5	THEREOF	(11) EP3295166
(22) 19.09.2018	(73) F.Hoffmann-La Roche AG	(21) EP15724776.8
(54) ASSEMBLY METHOD FOR PIPE	(72) MANLOVE, Nathan E.	(22) 13.05.2015
CONDUIT COMPONENTS	JOSEPH, Abner D.	(54) METHOD FOR DETERMINING AN
(73) Georg Fischer Rohrleitungssysteme AG	MOORE, Steven K.	INDICATION OF WHOLESOMENESS
(72) Ebauer, Alexander	RIGGLES, Randall K.	(73) FOSS Analytical A/S
Reiz, Robert	AUSTERA, John T.	(72) BÜCHMANN, Nils Bo
(74) ir. W.J.J.M. Kempes	PAULEY JR., James L.	(74) ir. W.J.J.M. Kempes
(47) 02.11.2022	BEATY, Terry A.	(47) 09.11.2022
(51) G01M 3/28	(74) drs. C.M.A. Quintelier	(51) G01N 33/53
F15B 19/00	(31) 201113194031	G01N 33/68
F17D 5/02	(32) 29.07.2011	C12N 9/04
F17D 5/06	(33) United States of America	G01N 33/542
(11) EP3891486	(47) 16.11.2022	(11) EP3259593
(21) EP19832191.1	(51) G01N 29/06	(21) EP16753142.5
(22) 26.11.2019	G01N 29/24	(22) 19.02.2016
(54) GAS NETWORK AND METHOD	G01N 29/34	(54) HOMOGENOUS IMMUNOASSAY WITH
FOR DETECTING LEAKS IN A GAS	(11) EP3568701	COMPENSATION FOR BACKGROUND
NETWORK UNDER PRESSURE OR	(21) EP18700628.3	SIGNAL
UNDER VACUUM	(22) 11.01.2018	(73) IDEXX Laboratories, Inc.
(73) ATLAS COPCO AIRPOWER, naamloze	(54) METHOD OF AND SYSTEM FOR	(72) XIE, Hongzhi
vennootschap	PERFORMING SUBSURFACE	PATCH, Daniel, Wayne
(72) GEUENS, Philippe	IMAGING USING VIBRATION SENSING	YERRAMILI, Murthy, VSN
LOUARROUDI, Ebrahim	(73) Nederlandse Organisatie voor toegepast-	FARACE, Giosi
(74) dr. R.C. van Duijvenbode c.s.	natuurwetenschappelijk onderzoek TNO	(74) dr. ir. F.M. van Bouwelen
(31) 201805861	(72) PIRAS, Daniele	(31) 201562118832 P
(32) 07.12.2018	VAN NEER, Paul Louis Maria Joseph	(32) 20.02.2015
(33) Belgium	VAN ES, Maarten Hubertus	(33) United States of America
(47) 05.10.2022	SADEGHIAN MARNANI, Hamed	(47) 05.10.2022
(51) G01N 1/28	(74) ir. H.A. Witmans c.s.	(51) G01Q 30/20
G01N 35/00	(31) 17151437	B82Y 35/00
G01N 35/04	(32) 13.01.2017	(11) EP2835653
(11) EP3877743	(33) European Patent Office (EPO)	(21) EP13179454.7
(21) EP19802064.6	(47) 28.09.2022	(22) 06.08.2013
(22) 05.11.2019	(51) G01N 29/22	(54) Sample holder for an AFM
(54) DEVICE FOR AUTOMATED AND	(11) EP3500853	(73) Universität Basel
CONTAMINATION-FREE SAMPLING	(21) EP16784126.1	(72) Loparic, Marko
AND ANALYSING	(22) 11.10.2016	(74) ir. F.A. Geurts c.s.
(73) Atline ApS	(54) APPARATUS AND DEVICE FOR	(47) 28.09.2022
(72) JØRGENSEN, Thomas Kniep	TESTING A COMPONENT BY MEANS	(51) G01Q 70/10
(74) dr. R.C. van Duijvenbode c.s.	ULTRASOUND	(11) EP3704495
(31) PA201870734	(73) Proceq SA	(21) EP18836933.4
(32) 07.11.2018	(72) GATTIKER, Felix	(22) 31.10.2018
(33) Denmark	OSTERWALDER, Marco	(54) PROBE, METHOD OF
(47) 05.10.2022	POSER, Marcel	MANUFACTURING A PROBE AND
(51) G01N 23/20	(74) mr. ir. J. van Breda c.s.	SCANNING PROBE MICROSCOPY
G01N 23/223	(47) 30.11.2022	SYSTEM
G01N 23/2252	(51) G01N 29/22	(73) Nederlandse Organisatie voor toegepast-
(11) EP3428629	G01N 29/26	natuurwetenschappelijk Onderzoek TNO
(21) EP18183199.1	G01N 29/265	(72) HERFST, Roelof, Willem
(22) 12.07.2018	G01N 29/34	DEKKER, Albert
(54) ANALYSIS OF X-RAY SPECTRA USING	G01N 29/36	BIJNAGTE, Anton, Adriaan
CURVE FITTING	(11) EP3961206	BIEMOND, Jan, Jacobus, Benjamin
(73) Malvern Panalytical B.V.	(21) EP21155326.8	(74) ir. H.A. Witmans c.s.
(72) ZARKADAS, Charalampos	(22) 11.10.2016	(31) 17199494
(74) J.M.H. Duyver lic.	(54) APPARATUS FOR TESTING A	(32) 01.11.2017
(31) 17181512	COMPONENT BY MEANS OF	(33) European Patent Office (EPO)
(32) 14.07.2017	ULTRASOUND	(47) 05.10.2022
(33) European Patent Office (EPO)	(73) Proceq SA	(51) G02B 3/14
(47) 07.12.2022	(72) Osterwalder, Marco	H04N 5/225
	Poser, Marcel	

G02B 7/02	(11) EP3658974	(73) Alliance for Sustainable Energy, LLC
G02B 3/12	(21) EP18750365.1	SAGE Electrochromics, Inc.
G02B 3/00	(22) 25.07.2018	(72) WEIR, Douglas G.
G02B 6/12	(54) MEMS MIRROR ASSEMBLY AND	ENGTRAKUL, Chaiwat
G02B 7/08	METHOD FOR PRODUCING A MEMS	LIN, Feng
G02B 13/00	MIRROR ASSEMBLY	(74) ir. W.J.J.M. Kempes
G02B 26/00	(73) Fraunhofer-Gesellschaft zur Förderung	(31) 201361776886 P
G03B 13/36	der angewandten Forschung e.V.	201261681353 P
G03B 29/00	(72) QUENZER, Hans Joachim	(32) 12.03.2013
G02B 27/64	HOFMANN, Ulrich	09.08.2012
H04N 5/232	STENCHLY, Vanessa	(33) United States of America
(11) EP3770650	(74) ir. H.J.G. Lips c.s.	United States of America
(21) EP20192427.1	(31) 102017213070	(47) 12.10.2022
(22) 28.04.2017	(32) 28.07.2017	(51) G03B 13/30
(54) CAMERA MODULE INCLUDING LIQUID	(33) Germany	H04N 5/232
LENS	(47) 19.10.2022	G02B 7/28
(73) LG Innotek Co., Ltd.	(51) G02B 27/01	G03B 13/36
(72) PARK, Seung Ryong	(11) EP3423877	(11) EP3534210
BAIK, Jung Shik	(21) EP17760524.3	(21) EP19154156.4
(74) dr. A. Ellens c.s.	(22) 27.02.2017	(22) 29.01.2019
(31) 20170013046	(54) VIRTUAL AND AUGMENTED REALITY	(54) FOCUS ADJUSTMENT DISPLAY UNIT
20160114133	SYSTEMS AND METHODS	(73) Arnold & Richter Cine Technik GmbH &
20160056227	(73) Magic Leap, Inc.	Co. Betriebs KG
20160052778	(72) CHENG, Hui-Chuan	(72) Voss, Hendrik
(32) 26.01.2017	(74) ir. W.J.J.M. Kempes	(74) dr. R.C. van Duijvenbode c.s.
05.09.2016	(31) 201662301502 P	(31) 102018103092
09.05.2016	(32) 29.02.2016	(32) 12.02.2018
29.04.2016	(33) United States of America	(33) Germany
(33) Korea (Republic)	(47) 26.10.2022	(47) 14.12.2022
Korea (Republic)	(51) G02B 27/01	(51) G03F 1/64
Korea (Republic)	(11) EP3665525	C22C 21/00
Korea (Republic)	(21) EP18820453.1	C22F 1/04
(47) 16.11.2022	(22) 20.06.2018	C25D 11/04
(51) G02B 6/02	(54) ENHANCED REALITY WEARABLE	C25D 11/06
(11) EP3662310	VISUALIZATION	C25D 11/22
(21) EP18755265.8	(73) Photonica, Inc.	C22F 1/00
(22) 01.08.2018	(72) ELLWOOD, Sutherland Cook	B22F 1/00
(54) HOLLOW CORE PHOTONIC BANDGAP	(74) dr. R.C. van Duijvenbode c.s.	(11) EP3486723
OPTICAL FIBRES AND METHODS OF	(31) 201816012747	(21) EP17827454.4
FABRICATION	201762522675 P	(22) 30.06.2017
(73) University of Southampton	(32) 19.06.2018	(54) PELLICLE FRAME AND PELLICLE
(72) JASION, Gregory Teofil	20.06.2017	(73) Nippon Light Metal Company, Ltd.
POLETTI, Francesco	(33) United States of America	(72) TAGUCHI Yoshihiro
CHEN, Yong	United States of America	YU Jun
FOKQUA, Eric Rodrigue Numakm	(47) 12.10.2022	ISHIWATA Yasuo
BRADLEY, Thomas David	(51) G02F 1/13357	YAMAGUCHI Takayuki
(74) ir. W.J.J.M. Kempes	(11) EP3591463	(74) dr. R.C. van Duijvenbode c.s.
(31) 201712451	(21) EP19190305.3	(31) 2016137523
(32) 02.08.2017	(22) 09.09.2011	(32) 12.07.2016
(33) United Kingdom	(54) LIGHTING UNIT	(33) Japan
(47) 02.11.2022	(73) LG INNOTEK CO., LTD.	(47) 23.11.2022
(51) G02B 6/125	(72) KIM, Chul Hong	(51) G03F 7/20
G02B 6/28	LEE, Byoung Eon	(11) EP3779598
(11) EP3736613	CHANG, Woo Young	(21) EP20177915.4
(21) EP19856429.6	PARK, Kwang Ho	(22) 04.04.2012
(22) 04.03.2019	(74) dr. A. Ellens c.s.	(54) METHOD FOR PROVIDING A SET OF
(54) OPTICAL SPLITTER CHIP, OPTICAL	(47) 02.11.2022	PROCESS TOOL CORRECTABLES
SPLITTER ASSEMBLY, OPTICAL	(51) G02F 1/15	(73) Kla-Tencor Corporation
SPLITTER DEVICE, AND FIBER OPTIC	G02F 1/155	(72) VAKSHTEIN, Irina
ENCLOSURE	C23C 14/08	KANDEL, Daniel
(73) Huawei Technologies Co., Ltd.	C23C 14/34	LEVINSKI, Vladimir
(72) QI, Biao	H01M 4/38	COHEN, Guy
XIONG, Wei	H01M 4/48	KLEIN, Dana
LI, Sanxing	(11) EP3543781	KAMENETSKY, Vladimir
(74) dr. W.A.H.M. Van Borm	(21) EP19174419.2	AMIT, Eran
(47) 30.11.2022	(22) 07.08.2013	SHULMAN, Alex
(51) G02B 26/08	(54) LITHIUM METAL OXIDE MATERIALS	SAPIENS, Noam
B81B 7/00	FOR ELECTROCHROMIC DEVICES	(74) ir. W.J.J.M. Kempes

(31) 201261598140 P	13.01.2014	H04M 1/02
201261597504 P	(33) European Patent Office (EPO)	H04M 1/18
201161509842 P	European Patent Office (EPO)	(11) EP3582063
201161474167 P	European Patent Office (EPO)	(21) EP19179626.7
201161472545 P	European Patent Office (EPO)	(22) 12.06.2019
(32) 13.02.2012	European Patent Office (EPO)	(54) WINDOW AND DISPLAY DEVICE
10.02.2012	(47) 30.11.2022	COMPRISING THE SAME
20.07.2011	(51) G05B 19/042	(73) Special Materials Source
11.04.2011	(11) EP3757694	Samsung Display Co., Ltd.
06.04.2011	(21) EP20172895.3	(72) Lee, Yongseok
(33) United States of America	(22) 05.05.2020	Choi, Beomgyu
United States of America	(54) METHOD AND CONTROLLER FOR	Sohn, Hoseok
United States of America	CHANGING AN OPERATING MODE	Lee, Dong Woon
United States of America	OF A CONTROL DEVICE FROM A	Heo, Jin Nyoung
United States of America	STANDARD MODE TO A DEVELOPING	Jeon, Yusik
(47) 21.12.2022	MODE AND CONTROLLER	Lee, Kilsung
(51) G03G 15/08	(73) Vaillant GmbH	(74) dr. R.C. van Duijvenbode c.s.
G03G 21/18	(72) Dresden, Tim Christopher von	(31) 20180077218
(11) EP3658993	Grabe, Jochen	201862683773 P
(21) EP19756084.0	Maaß, Andre	(32) 03.07.2018
(22) 01.07.2019	(74) J.M.H. Duyver lic.	12.06.2018
(54) DEVELOPING CARTRIDGE	(31) 102019116888	(33) Korea (Republic)
(73) Brother Kogyo Kabushiki Kaisha	(32) 24.06.2019	United States of America
(72) WANG, Yuwen	(33) Germany	(47) 30.11.2022
HASHIMOTO, Junichi	(47) 26.10.2022	(51) G06F 1/16
(74) dr. R.C. van Duijvenbode c.s.	(51) G05B 19/4067	H04M 1/12
(31) 2018183058	B65B 19/28	(11) EP3800525
(32) 28.09.2018	A24C 5/00	(21) EP20786221.0
(33) Japan	(11) EP3781998	(22) 23.06.2020
(47) 28.12.2022	(21) EP19726155.5	(54) ANGLE ADJUSTMENT MECHANISM
(51) G03H 1/02	(22) 19.04.2019	OF HOUSING, AND ELECTRONIC
(11) EP3748430	(54) METHOD TO RESTORE THE	DEVICE
(21) EP20183159.1	FUNCTIONAL STATE OF AN	(73) NEC Platforms, Ltd.
(22) 23.09.2016	AUTOMATIC MACHINE FOR THE	(72) KOBAYASHI, Masaki
(54) CAMERA MODULE	PRODUCTION OF TOBACCO	(74) ir. J.C. Volmer c.s.
(73) LG Innotek Co., Ltd.	INDUSTRY ARTICLES	(31) 2019146293
(72) LEE, Chul Ho	(73) G.D Società per Azioni	(32) 08.08.2019
CHOI, Jong Cheol	(72) ZANNI, Paolo	(33) Japan
AN, Myoung Jin	SALMI, Stefano	(47) 26.10.2022
HWANG, Sun Min	FEDERICI, Luca	(51) G06F 3/00
(74) dr. A. Ellens c.s.	(74) ir. F.A. Geurts c.s.	G06F 9/46
(31) 20150135297	(31) 201800004698	G06F 9/445
20150135296	(32) 19.04.2018	G06F 9/54
(32) 24.09.2015	(33) Italy	G06F 8/61
24.09.2015	(47) 19.10.2022	G06F 9/451
(33) Korea (Republic)	(51) G05D 1/02	(11) EP3644160
Korea (Republic)	B64F 1/36	(21) EP19216964.7
(47) 30.11.2022	(11) EP3261929	(22) 27.09.2011
(51) G04B 17/04	(21) EP16756004.4	(54) APPARATUS AND METHODS OF
(11) EP3095011	(22) 19.01.2016	EXTENDING APPLICATION SERVICES
(21) EP15706928.7	(54) METHOD AND SYSTEM FOR	(73) QUALCOMM Incorporated
(22) 13.01.2015	AUTOMATED LUGGAGE SECURITY	(72) MACIOCCI, Giuliano
(54) ORBITING MASSES SYSTEM	INSPECTION	MABBUTT, Paul Jason
(73) Ecole Polytechnique Federale de	(73) Jervis B. Webb International Company	(74) dr. R.C. van Duijvenbode c.s.
Lausanne (EPFL)	DAIFUKU CO., LTD.	(31) 201113216006
(72) HENEIN, Simon	(72) MURPHY, Christopher, J.	38745110 P
VARDI, Ilan	(74) ir. H.A. Witmans c.s.	(32) 23.08.2011
RUBBERT, Lennart	(31) 2917705	28.09.2010
(74) J.M.H. Duyver lic.	201514881537	(33) United States of America
(31) 14195719	201562120473 P	United States of America
14183624	(32) 13.10.2015	(47) 07.12.2022
14183385	13.10.2015	(51) G06F 3/04815
14173947	25.02.2015	G02B 27/01
14150939	(33) Canada	A63F 13/211
(32) 01.12.2014	United States of America	A63F 13/213
04.09.2014	United States of America	A63F 13/655
03.09.2014	(47) 19.10.2022	G06F 3/01
25.06.2014	(51) G06F 1/16	(11) EP3404624

(21) EP16884970.1	G06F 11/30	HETEROGENEOUS PROCESSING
(22) 16.02.2016	H04L 41/0853	NODES
(54) IMAGE DISPLAY SYSTEM, IMAGE	H04L 41/12	(73) V2COM S.A.
DISPLAY SYSTEM CONTROL	G06F 9/54	(72) SPINA, Guilherme
METHOD, IMAGE DISTRIBUTION	G06F 11/34	DE MOURA ROCHA LIMA, Leonardo
SYSTEM, AND HEAD-MOUNTED	(11) EP3899720	(74) dr. R.C. van Duijvenbode c.s.
DISPLAY	(21) EP19839067.6	(31) 201862650659 P
(73) Meleap Inc.	(22) 18.12.2019	(32) 30.03.2018
(72) ARAKI, Hitoshi	(54) DISCOVERY OF SOFTWARE BUS	(33) United States of America
MOTOKI, Takuma	ARCHITECTURES	(47) 05.10.2022
OTA, Naoki	(73) ServiceNow, Inc.	(51) G06F 9/50
TAKEUCHI, Tsuyoshi	(72) BAR OZ, Tom	G06F 9/52
FUKUDA, Hiroshi	FEIGUINE, Alexandra	(11) EP3683678
(74) dr. R.C. van Duijvenbode c.s.	BIRAN, Noam	(21) EP19450001.3
(31) 2016006653	TAL, Hail	(22) 15.01.2019
(32) 15.01.2016	ARON, Aviya	(54) COMPUTER-IMPLEMENTED METHOD,
(33) Japan	GARTY, Asaf	COMPUTER PROGRAM AND DATA
(47) 12.10.2022	BADYAN, Daniel	PROCESSING SYSTEM
(51) G06F 3/04883	(74) ir. W.J.J.M. Kempes	(73) iov42 Limited
G06F 3/04886	(31) 201816228312	(72) ZAPFEL, Robert
G06F 3/0485	(32) 20.12.2018	(74) J.M.H. Duyver lic.
G06F 16/9032	(33) United States of America	(47) 02.11.2022
G06Q 10/10	(47) 02.11.2022	(51) G06F 9/50
(11) EP3734433	(51) G06F 9/451	G06F 9/54
(21) EP20181733.5	H04W 8/24	G06Q 40/04
(22) 26.05.2017	(11) EP3497560	(11) EP3532930
(54) APPLICATION CONTROL USING A	(21) EP17761357.7	(21) EP17793770.3
GESTURE BASED TRIGGER	(22) 11.08.2017	(22) 17.10.2017
(73) Snap Inc.	(54) SYSTEMS AND METHODS FOR REAL-	(54) RESOURCE ALLOCATION BASED
(72) BURFITT, Joseph	TIME REMOTE CONTROL OF MOBILE	ON TRANSACTION PROCESSOR
(74) J.M.H. Duyver lic.	APPLICATIONS	CLASSIFICATION
(31) 201615169288	(73) Liveperson, Inc.	(73) Chicago Mercantile Exchange, Inc.
(32) 31.05.2016	(72) STUBER, Reto	(72) KAVANAGH, Kyle, D.
(33) United States of America	THUM, Christian	SONI, Viren
(47) 26.10.2022	SEEDORF, Stefan	ACUNA-ROHTER, Jose, Antonio
(51) G06F 3/06	LEVIN, Yossi	(74) dr. R.C. van Duijvenbode c.s.
G06F 16/182	(74) dr. R.C. van Duijvenbode c.s.	(31) 201615339160
H04L 67/1097	(31) 201662374892 P	(32) 31.10.2016
(11) EP3367259	(32) 14.08.2016	(33) United States of America
(21) EP16856732.9	(33) United States of America	(47) 07.12.2022
(22) 10.08.2016	(47) 02.11.2022	(51) G06F 16/22
(54) METHOD AND DEVICE FOR READING	(51) G06F 9/455	(11) EP3649532
AND WRITING VIDEO DATA IN NAS	G06F 9/46	(21) EP17916710.1
DEVICE	G06F 9/38	(22) 13.10.2017
(73) Hangzhou Hikvision Digital Technology	G06F 9/30	(54) METHODS, SYSTEMS, DATABASES
Co., Ltd.	(11) EP2972836	AND NETWORK NODES OF DATA
(72) CAO, Li	(21) EP14770976.0	COMMUNICATION NETWORKS FOR
WANG, Weichun	(22) 12.03.2014	HANDLING DATA POSTS
(74) ir. H.A. Witmans c.s.	(54) A METHOD FOR EMULATING A GUEST	(73) Telefonaktiebolaget LM Ericsson (publ)
(31) 201510688290	CENTRALIZED FLAG ARCHITECTURE	(72) MARINESCU, Teodor
(32) 21.10.2015	BY USING A NATIVE DISTRIBUTED	HÅKANSSON, Jim
(33) China	FLAG ARCHITECTURE	GERDOVCI, Petrit
(47) 16.11.2022	(73) Intel Corporation	KASPERSSON, Mikael
(51) G06F 9/38	(72) ABDALLAH, Mohammad	(74) ir. A. Blokland c.s.
G06F 15/80	(74) ir. W.J.J.M. Kempes	(31) 201762529658 P
G06F 17/10	(31) 201361800487 P	(32) 07.07.2017
G06F 9/30	(32) 15.03.2013	(33) United States of America
(11) EP3639133	(33) United States of America	(47) 07.12.2022
(21) EP17734656.6	(47) 09.11.2022	(51) G06F 16/2452
(22) 16.06.2017	(51) G06F 9/50	G06F 40/30
(54) MULTIPLY ACCUMULATOR ARRAY	(11) EP3777047	(11) EP3514694
AND PROCESSOR DEVICE	(21) EP19722729.1	(21) EP19152645.8
(73) Huawei Technologies Co., Ltd.	(22) 29.03.2019	(22) 18.01.2019
(72) NOBILE, Andrea	(54) SYSTEM AND METHOD FOR	(54) QUERY TRANSLATION
BOEHN, Gunnar	RESOURCE MANAGEMENT AND	(73) ServiceNow, Inc.
(74) dr. W.A.H.M. Van Borm	RESOURCE ALLOCATION IN A	(72) ZENOVICH, Alexey
(47) 30.11.2022	SELF-OPTIMIZING NETWORK OF	RUMIANTSAU, Mikhail
(51) G06F 9/445		VERTSEL, Alaiksei

ZAYTSAV, Alyksandr	(73) THALES DIS CPL USA, INC.	(22) 26.05.2015
(74) ir. W.J.J.M. Kempes	(72) RANGAYAN, Vishnu	(54) SHINGLED SOLAR CELL MODULE
(31) 201916249725	(74) ir. W.J.J.M. Kempes	(73) Maxeon Solar Pte. Ltd.
201862619654 P	(31) 201715406479	(72) LIN, Yafu
(32) 16.01.2019	(32) 13.01.2017	GANNON, John
19.01.2018	(33) United States of America	HUMMEL, Jean
(33) United States of America	(47) 23.11.2022	MORAD, Ratson
United States of America	(51) G06F 21/64	BECKETT, Nathan
(47) 21.12.2022	B09B 1/00	LANCE, Tamir
(51) G06F 17/00	B09B 3/00	ALMOGY, Gilad
H03K 3/38	G06Q 10/00	STUART, Robert
G06F 30/327	H04L 9/32	MAYDAN, Dan
(11) EP3213238	H04L 9/40	STARKEY, Michael J.
(21) EP14802538.0	(11) EP3807828	SUEZ, Itai
(22) 29.10.2014	(21) EP19732575.6	(74) dr. W.A.H.M. Van Borm
(54) RECIPROCAL QUANTUM LOGIC (RQL)	(22) 17.06.2019	(31) 201414552761
CIRCUIT SYNTHESIS	(54) DISTRIBUTED DATABASE	201462082904 P
(73) Northrop Grumman Systems Corporation	STRUCTURES FOR ANONYMOUS	201562150426 P
(72) SHAUCK, Steven B.	INFORMATION EXCHANGE	201514674983
PHIFER, Gary L.	(73) Circularise BV	201562134176 P
(74) ir. H.A. Witmans c.s.	(72) DE VOS, Jordi	201562113250 P
(47) 14.12.2022	SABUR, Mesbah	201562111757 P
(51) G06F 17/10	PASOTTI, Pietro	201514605695
G01V 1/30	LICHT, Jelle Dirk	201562103816 P
(11) EP2915064	OUDSHOORN, Kaj	201514594439
(21) EP13850532.6	(74) ir. H.A. Witmans c.s.	201414585917
(22) 05.11.2013	(31) 201862685781 P	201414586025
(54) METHOD OF INDICATING THE	(32) 15.06.2018	201414577593
PRESENCE OF GAS HYDRATE AND	(33) United States of America	201414572206
SHALLOW GAS IN DEEPWATER	(47) 26.10.2022	201414565820
ENVIRONMENT	(51) G06K 7/12	201414566278
(73) FNV IP B.V.	(11) EP3161721	201414560577
(72) ZHANG, Zijian	(21) EP15781587.9	201414530405
MCCONNELL, Daniel	(22) 15.09.2015	201414550676
(74) dr. R.C. van Duijvenbode c.s.	(54) APPARATUS AND METHOD	201414548081
(31) 201261722561 P	FOR PROVIDING A GRAPHIC	201462081200 P
(32) 05.11.2012	REPRESENTATION OR GRAPHIC	201414543580
(33) United States of America	REPRESENTATION SEQUENCE FOR	201414539546
(47) 19.10.2022	DETECTION BY A DETECTOR	201414536486
(51) G06F 21/51	(73) Pepperl+Fuchs SE	201414532293
G06F 21/60	(72) KIRSCH, Martin	201462042615 P
G06F 21/78	(74) dr. R.C. van Duijvenbode c.s.	201462064834 P
H04L 9/32	(47) 09.11.2022	201462064260 P
G06F 21/64	(51) G06N 3/08	201462048858 P
G06F 21/62	H04N 19/117	201462035624 P
H04L 9/08	H04N 19/124	201462036215 P
(11) EP3652670	H04N 19/154	201462003223 P
(21) EP18832539.3	H04N 19/59	(32) 25.11.2014
(22) 21.06.2018	H04N 19/172	21.11.2014
(54) SECURE SNAPSHOT MANAGEMENT	H04N 19/179	21.04.2015
FOR DATA STORAGE DEVICES	H04N 19/85	31.03.2015
(73) Micron Technology, Inc.	G06N 3/04	17.03.2015
(72) STRONG, Robert W.	(11) EP3799431	06.02.2015
DANIELSON, Michael B.	(21) EP20199342.5	04.02.2015
(74) dr. R.C. van Duijvenbode c.s.	(22) 30.09.2020	26.01.2015
(31) 201715645694	(54) PREPROCESSING IMAGE DATA	15.01.2015
(32) 10.07.2017	(73) iSize Limited	12.01.2015
(33) United States of America	(72) ANDREOPOULOS, Ioannis	30.12.2014
(47) 07.12.2022	CHADHA, Aaron	30.12.2014
(51) G06F 21/57	(74) dr. R.C. van Duijvenbode c.s.	19.12.2014
H04L 9/08	(31) 201962908178 P	16.12.2014
H04L 9/40	(32) 30.09.2019	16.12.2014
G06F 9/4401	(33) United States of America	10.12.2014
(11) EP3568796	(47) 02.11.2022	04.12.2014
(21) EP18739307.9	(51) G06Q 10/04	31.10.2014
(22) 12.01.2018	G06Q 50/06	21.11.2014
(54) BOOTLOADER LEVEL ENCRYPTION	(11) EP3518126	19.11.2014
FOR SYSTEM BOOT DATA	(21) EP18215589.5	18.11.2014

17.11.2014	B42D 25/373	(51) G08B 25/10
12.11.2014	B42D 25/378	G08B 29/04
07.11.2014	B42D 25/382	H04K 3/00
04.11.2014	B42D 25/387	(11) EP3716242
27.08.2014	B42D 25/355	(21) EP20166126.1
16.10.2014	(11) EP3690829	(22) 27.03.2020
15.10.2014	(21) EP19219466.0	(54) ALARM SYSTEM WITH SECURE
11.09.2014	(22) 02.12.2014	RADIOFREQUENCY COMMUNICATION
11.08.2014	(54) A SECURITY SHEET OR DOCUMENT	(73) Telecom Design
12.08.2014	HAVING ONE OR MORE ENHANCED	(72) FILHOL, Didier
27.05.2014	WATERMARKS	EL QOUNS, Abdelkarim
(33) United States of America	(73) Crane Security Technologies, Inc.	(74) ir. F.A. Geurts c.s.
United States of America	Crane AB	(31) 1903313
United States of America	Crane & Co., Inc.	(32) 29.03.2019
United States of America	(72) JAIN, Manish	(33) France
United States of America	BRIGHAM, Kraig, M.	(47) 12.10.2022
United States of America	CALLAHAN, James	(51) G08B 25/10
United States of America	COTE, Paul, F	H04K 3/00
United States of America	PRETT, Giles, D	G08B 13/00
United States of America	BLAKE, William	(11) EP3662459
United States of America	DARROCH, Michael	(21) EP18756132.9
United States of America	BOODY, Jeffrey	(22) 03.08.2018
United States of America	MÖRCK HAMILTON, Karin	(54) SYSTEM AND METHOD FOR
United States of America	(74) ir. H.A. Witmans c.s.	TRIGGERING AN ALARM DURING A
United States of America	(31) 201461924000 P	SENSOR JAMMING ATTACK
United States of America	201361911831 P	(73) Alarm.com Incorporated
United States of America	201361911885 P	(72) TRUNDLE, Stephen Scott
United States of America	201361911141 P	REEDER, Alexander Lawrence
United States of America	(32) 06.01.2014	ALPERT, Charles Richard
United States of America	04.12.2013	WEINGART, Noah Robert
United States of America	04.12.2013	(74) ir. W.J.J.M. Kempes
United States of America	03.12.2013	(31) 201762540760 P
United States of America	(33) United States of America	(32) 03.08.2017
United States of America	United States of America	(33) United States of America
United States of America	United States of America	(47) 05.10.2022
United States of America	(47) 30.11.2022	(51) G08B 29/26
United States of America	(51) G07F 17/42	G08B 13/19
United States of America	G07F 11/24	G08B 29/18
United States of America	(11) EP3567561	G08B 25/00
United States of America	(21) EP19171521.8	(11) EP3696781
United States of America	(22) 29.04.2019	(21) EP20164585.0
United States of America	(54) DISPENSING DEVICE FOR	(22) 08.04.2016
United States of America	DISPENSING CARD-SHAPED DATA	(54) MOTION SENSOR ADJUSTMENT
(47) 02.11.2022	CARRIERS	(73) Google LLC
(51) G06T 9/00	(73) Scheidt & Bachmann GmbH	(72) PUROHIT, Aavek Ravishekhar
(11) EP2748765	(72) MILLER, Norbert	MODI, Yash
(21) EP12825425.7	(74) ir. A. Blokland c.s.	HERMAN, Kenneth Louis
(22) 24.08.2012	(31) 102018110996	(74) dr. R.C. van Duijvenbode c.s.
(54) RETINAL ENCODER FOR MACHINE	(32) 08.05.2018	(31) 201514682587
VISION	(33) Germany	(32) 09.04.2015
(73) Cornell University	(47) 09.11.2022	(33) United States of America
(72) NIRENBERG, Sheila	(51) G08B 21/04	(47) 12.10.2022
BOMASH, Ilyya	(11) EP3686858	(51) G08C 23/04
(74) dr. A. Krebs	(21) EP20152899.9	G08C 25/00
(31) 201261657406 P	(22) 21.01.2020	H02H 3/06
201161527493 P	(54) SYSTEM FOR MONITORING DAILY	H02J 7/00
(32) 08.06.2012	ACTIVITIES FOR ONE OR MORE	H01M 10/42
25.08.2011	PERSONS IN A LIVING SPACE, AND	(11) EP3504696
(33) United States of America	ANALYSIS METHOD	(21) EP17842489.1
United States of America	(73) Telecom Design	(22) 23.08.2017
(47) 14.12.2022	(72) MOULINE, Mehdi	(54) OPTICALLY COMMUNICATIVE
(51) G07D 7/00	MORET, Boris	BATTERY MANAGEMENT SYSTEM
B42D 25/29	(74) ir. F.A. Geurts c.s.	(73) Corvus Energy Inc.
B42D 25/333	(31) 1900533	(72) TSANG, Chi-Kiu
B42D 25/324	(32) 22.01.2019	TANG, Siu Lun Isaac
B42D 25/351	(33) France	RONNE, Jerome
B42D 25/36	(47) 12.10.2022	LOKHORST, David
B42D 25/369		(74) dr. R.C. van Duijvenbode c.s.

(31) 201662418705 P	20165017	TOMASEK, Adrian
201662378597 P	(32) 25.02.2016	TSCHEKALINSKIJ, Alexander
(32) 07.11.2016	13.01.2016	SCHNELL, Markus
23.08.2016	(33) Finland	RAVELLI, Emmanuel
(33) United States of America	Finland	(74) ir. F.A. Geurts c.s.
United States of America	(47) 26.10.2022	(31) 17201142
(47) 05.10.2022	(51) G09F 9/33	(32) 10.11.2017
(51) G09B 19/00	G09F 9/302	(33) European Patent Office (EPO)
G09B 5/06	(11) EP3828873	(47) 19.10.2022
G16H 20/30	(21) EP19924637.2	(51) G10L 19/008
G16H 20/70	(22) 13.11.2019	G10L 19/20
(11) EP3594925	(54) LED DISPLAY PANEL	G10L 19/04
(21) EP18183530.7	(73) Shenzhen Infiled Electronics Co., Ltd	(11) EP2981956
(22) 13.07.2018	(72) LIU, Qiuhe	(21) EP14717713.3
(54) DEVICE, SYSTEM AND METHOD FOR	HAO, Zongchao	(22) 04.04.2014
ENTRAINMENT AND TRAINING OF	WEI, Wentao	(54) AUDIO PROCESSING SYSTEM
THE HUMAN BRAIN	(74) ir. W.J.J.M. Kempes	(73) Dolby International AB
(73) Vogel, Wolfgang	(31) 201910993354	(72) KJOERLING, Kristofer
Jaber, Amira	(32) 18.10.2019	PURNHAGEN, Heiko
(72) Vogel, Wolfgang	(33) China	VILLEMOES, Lars
Jaber, Amira	(47) 28.12.2022	(74) J.M.H. Duyver lic.
(74) mr. R. Zwamborn	(51) G09F 15/00	(31) 201361875959 P
(47) 28.09.2022	(11) EP2897120	201361809019 P
(51) G09F 3/00	(21) EP15151490.8	(32) 10.09.2013
F16L 9/00	(22) 16.01.2015	05.04.2013
G09F 3/20	(54) Hoisting device for a transparent and	(33) United States of America
G09F 3/02	transparent system with such a hoisting	United States of America
(11) EP3688745	device	(47) 30.11.2022
(21) EP18804114.9	(73) Julius Cronenberg oH	(51) G10L 19/26
(22) 28.09.2018	(72) Grote, Ralf	G10L 19/02
(54) COMPONENT FOR A FLUIDIC CIRCUIT	(74) J.M.H. Duyver lic.	G10L 19/04
AND VALVE COMPRISING SAID	(31) 102014111371	G10L 19/028
COMPONENT	102014100510	G10L 19/038
(73) Effebi S.p.A.	(32) 08.08.2014	(11) EP3696813
(72) TANGHETTI, Ermanno	17.01.2014	(21) EP20168799.3
(74) ir. F.A. Geurts c.s.	(33) Germany	(22) 06.04.2017
(31) 201700108877 U	Germany	(54) AUDIO ENCODER FOR ENCODING
(32) 28.09.2017	(47) 30.11.2022	AN AUDIO SIGNAL, METHOD FOR
(33) Italy	(51) G09G 3/36	ENCODING AN AUDIO SIGNAL AND
(47) 02.11.2022	H02H 9/00	COMPUTER PROGRAM UNDER
(51) G09F 3/02	H01L 27/02	CONSIDERATION OF A DETECTED
(11) EP3933812	G02F 1/1362	PEAK SPECTRAL REGION IN AN
(21) EP20183628.5	H01L 27/12	UPPER FREQUENCY BAND
(22) 02.07.2020	(11) EP3451323	(73) Fraunhofer-Gesellschaft zur Förderung
(54) ARTICLE OF CLOTHING WITH A	(21) EP17771326.0	der angewandten Forschung e.V.
COLLAR TAG AND METHOD FOR	(22) 14.03.2017	(72) Neukam, Christian
REVERSIBLY ATTACHING A COLLAR	(54) ELECTROSTATIC DISCHARGE	Schubert, Benjamin
TAG TO AN ARTICLE OF CLOTHING	CIRCUIT, ARRAY SUBSTRATE, AND	Multrus, Markus
(73) Olymp Bezner KG	DISPLAY DEVICE	Schnell, Markus
(72) Fühth, Georg H.	(73) BOE Technology Group Co., Ltd.	(74) ir. F.A. Geurts c.s.
(74) mr. ir. J. van Breda c.s.	(72) XIAN, Jianbo	(31) 16164951
(47) 16.11.2022	LONG, Chunping	(32) 12.04.2016
(51) G09F 3/20	(74) ir. W.J.J.M. Kempes	(33) European Patent Office (EPO)
G09F 3/12	(31) 201620363192 U	(47) 26.10.2022
G06K 19/077	(32) 26.04.2016	(51) G10L 25/69
E05B 73/00	(33) China	G10L 21/038
G08B 13/24	(47) 16.11.2022	(11) EP3602555
(11) EP3403255	(51) G10L 19/005	(21) EP18714688.1
(21) EP17738238.9	(11) EP3707705	(22) 29.03.2018
(22) 10.01.2017	(21) EP18796670.0	(54) APPARATUS AND METHOD FOR
(54) PROTECTIVE ELEMENT OF AN	(22) 05.11.2018	DETERMINING A PREDETERMINED
ELECTRONIC PRICE LABEL	(54) AUDIO DECODER SUPPORTING	CHARACTERISTIC RELATED TO
AND ELECTRONIC PRICE LABEL	A SET OF DIFFERENT LOSS	A SPECTRAL ENHANCEMENT
ARRANGEMENT	CONCEALMENT TOOLS	PROCESSING OF AN AUDIO SIGNAL
(73) MariElla Labels Oy	(73) Fraunhofer-Gesellschaft zur Förderung	(73) Fraunhofer-Gesellschaft zur Förderung
(72) SUNDHOLM, Göran	der angewandten Forschung e.V.	der angewandten Forschung e.V.
(74) J.M.H. Duyver lic.	(72) SCHNABEL, Michael	(72) HERRE, Jürgen
(31) 20165146	SPERSCHNEIDER, Ralph	PROKEIN, Peter

DISCH, Sascha	(72) MERRIL, Carl	H01J 37/28
GAMPP, Patrick	MERRIL, Greg	H01J 49/14
HELLMUTH, Oliver	(74) ir. A.R. Aalbers	G01C 11/00
HAVENSTEIN, Julia	(31) 201762597008 P	(11) EP3803935
KARAMPOURNIOTIS, Antonios	(32) 11.12.2017	(21) EP19728397.1
UHLE, Christian	(33) United States of America	(22) 31.05.2019
(74) ir. F.A. Geurts c.s.	(47) 05.10.2022	(54) JOINT NANOSCALE THREE-DIMENSIONAL IMAGING AND CHEMICAL ANALYSIS
(31) 17189988	(51) G21D 1/00	(73) Luxembourg Institute of Science and Technology (LIST)
17164360	(11) EP4008012	(72) WIRTZ, Tom
(32) 07.09.2017	(21) EP20742693.3	VOLLNHALS, Florian
31.03.2017	(22) 15.07.2020	(74) dr. ir. G.J.C. Verdijck c.s.
(33) European Patent Office (EPO)	(54) METHOD FOR ERECTING AN APPARATUS FOR DISMANTLING AN INDUSTRIAL PLANT	(31) 100806
European Patent Office (EPO)	(73) RWE Nuclear GmbH	(32) 30.05.2018
(47) 12.10.2022	(72) BÜSCHER, Tim	(33) Luxembourg
(51) G11C 7/08	ALBERT, Jens	(47) 05.10.2022
G11C 7/10	FREESE, Andreas	(51) H01L 21/20
G11C 11/419	BRÜGGESTRATH, Stefan	H01L 21/306
G11C 8/18	(74) ir. W.J.J.M. Kempes	(11) EP3338300
G11C 11/418	(31) 102019121004	(21) EP16837794.3
(11) EP3735690	(32) 02.08.2019	(22) 17.08.2016
(21) EP18800435.2	(33) Germany	(54) EPITAXIAL GROWTH USING ATMOSPHERIC PLASMA PREPARATION STEPS
(22) 25.10.2018	(47) 30.11.2022	(73) Ontos Equipment Systems
(54) BITLINE-DRIVEN SENSE AMPLIFIER CLOCKING SCHEME	(51) H01G 11/26	(72) SCHULTE, Eric
(73) QUALCOMM INCORPORATED	H01G 11/32	(74) ir. F.A. Geurts c.s.
(72) GARG, Manish	H01G 11/56	(31) 201562205938 P
KUMAR, Rajesh	H01G 11/36	(32) 17.08.2015
PHAN, Michael	H01G 11/24	(33) United States of America
SHANKAR, Harish	(11) EP2823496	(47) 05.10.2022
NADKARNI, Rahul Krishnakumar	(21) EP13757195.6	(51) H01L 21/677
(74) dr. R.C. van Duijvenbode c.s.	(22) 05.03.2013	F16H 19/04
(31) 201816134937	(54) CAPACITOR WITH ELECTRODES MADE OF AN INTERCONNECTED CORRUGATED CARBON-BASED NETWORK	G03F 7/20
201862614322 P	(73) THE REGENTS OF THE UNIVERSITY OF CALIFORNIA	B66F 17/00
(32) 18.09.2018	(72) KANER, Richard, B.	B66F 7/00
05.01.2018	EL-KADY, Maher, F.	(11) EP3319118
(33) United States of America	STRONG, Veronica, A.	(21) EP17198116.0
United States of America	(74) ir. J.D. de Zeeuw	(22) 24.10.2017
(47) 30.11.2022	(31) 201361757077 P	(54) INSTALLATION FOR PROCESSING SEMI-CONDUCTOR ELEMENTS AND LIFTING DEVICE
(51) G16C 60/00	201261606637 P	(73) Integrated Dynamics Engineering GmbH
G16C 20/30	(32) 25.01.2013	(72) BIRKNER, Andreas
G16C 20/62	05.03.2012	EVERS, Arndt
G16C 20/70	(33) United States of America	SCHADT, Simon
(11) EP3876237	United States of America	(74) ir. F.A. Geurts c.s.
(21) EP21161013.4	(47) 26.10.2022	(31) 102016120820
(22) 05.03.2021	(51) H01G 11/30	(32) 02.11.2016
(54) METHOD AND SYSTEM FOR IDENTIFICATION OF MATERIALS FOR HYDROGEN STORAGE	H01G 11/56	(33) Germany
(73) Tata Consultancy Services Limited	C02F 1/469	(47) 19.10.2022
(72) Vinod Muthachikavil, Aswin	(11) EP2689438	(51) H01L 21/683
Buddhiraju, Venkata Sudheendra	(21) EP12760842.0	G03F 7/20
(74) dr. ir. G.J.C. Verdijck c.s.	(22) 23.03.2012	H01L 21/027
(31) 202021009559	(54) POLARIZED ELECTRODE FOR FLOW-THROUGH CAPACITIVE DEIONIZATION	H01L 21/687
(32) 05.03.2020	(73) Mespilum Inc.	(11) EP3065165
(33) India	(72) ANDELMAN, Marc, D.	(21) EP14858776.9
(47) 19.10.2022	(74) dr. R.C. van Duijvenbode c.s.	(22) 29.10.2014
(51) G16H 20/13	(31) 201161466854 P	(54) SUBSTRATE-HOLDING APPARATUS AND EXPOSURE APPARATUS
C12N 7/00	(32) 23.03.2011	(73) Nikon Corporation
G16H 10/60	(33) United States of America	(72) SHIBAZAKI, Yuichi
G16H 40/63	(47) 16.11.2022	(74) ir. J.P.E. Brants
G16H 50/20	(51) H01J 49/00	(31) 2013224843
B01L 7/00	G01N 23/2258	(32) 30.10.2013
A61J 7/00	G01N 23/2251	(33) Japan
(11) EP3724886		
(21) EP18830103.0		
(22) 10.12.2018		
(54) PHAGE DISPENSING SYSTEM		
(73) Adaptive Phage Therapeutics, Inc.		

(47) 07.12.2022	AND METHOD FOR PREPARING CELL SHEET	H01M 50/553
(51) H01L 27/146		(11) EP3930031
H01L 27/30	(73) Chengdu Yefan Science And Technology Co., Ltd.	(21) EP20787918.0
H01L 31/10		(22) 20.03.2020
H01L 51/42	(72) YIN, Bingwei	(54) BATTERY
(11) EP3783654	SUN, Jun	(73) Contemporary Ampere Technology Co., Limited
(21) EP19788964.5	ZHANG, Zhengrong	(72) YANG, Jianxiong
(22) 10.04.2019	CHEN, Dengyun	(74) J.M.H. Duyver lic.
(54) IMAGE-CAPTURE ELEMENT, STACKED IMAGE-CAPTURE ELEMENT, AND SOLID IMAGE-CAPTURE DEVICE	DING, Shiyin	(31) 201920461233 U
(73) Sony Group Corporation	ZHOU, Fushen	(32) 08.04.2019
(72) NAKANO, Hiroshi	(74) ir. H.A. Witmans c.s.	(33) China
MORIWAKI, Toshiki	(31) 201811385343	(47) 30.11.2022
(74) ir. W.J.J.M. Kempes	(32) 20.11.2018	
(31) 2018162973	(33) China	(51) H01M 12/06
2018081250	(47) 02.11.2022	H01M 50/77
(32) 31.08.2018	(51) H01L 31/0465	(11) EP3692592
20.04.2018	H01L 51/44	(21) EP18864773.9
(33) Japan	(11) EP3827465	(22) 03.10.2018
Japan	(21) EP19755985.9	(54) AIR METAL BATTERY HAVING A ROTATING ANODE AND A CATHODE ASSEMBLY
(47) 26.10.2022	(22) 23.07.2019	(73) Alumapower Corporation
(51) H01L 27/32	(54) PHOTOVOLTAIC DEVICE AND METHOD OF MANUFACTURING THE SAME	(72) SHEERIN, Geoffrey, T.
G06F 1/16		(74) dr. R.C. van Duijvenbode c.s.
G06F 3/044	(73) Nederlandse Organisatie voor toegepast-natuurwetenschappelijk onderzoek TNO	(31) 201862720957 P
(11) EP3664143	(72) LANGEN, Adrianus Petrus	201762567963 P
(21) EP19208669.2	DE VRIES, Ike Gerke	(32) 22.08.2018
(22) 12.11.2019	LIFKA, Herbert	04.10.2017
(54) ELECTRONIC DEVICE	(74) ir. H.A. Witmans c.s.	(33) United States of America
(73) Samsung Display Co., Ltd.	(31) 18185515	United States of America
(72) CHO, Hyun-Wook	(32) 25.07.2018	(47) 07.12.2022
CHOI, JAEWOO	(33) European Patent Office (EPO)	(51) H01P 1/208
KIM, TAEJOON	(47) 26.10.2022	(11) EP3686989
SEO, Eunsol	(51) H01M 4/133	(21) EP20157215.3
(74) ir. H.A. Witmans c.s.	H01M 4/131	(22) 18.01.2017
(31) 20180142068	H01M 4/1391	(54) VOLTAGE CONTROLLED TUNABLE FILTER
(32) 16.11.2018	H01M 4/1393	(73) Northrop Grumman Systems Corporation
(33) Korea (Republic)	H01M 4/36	(72) Copley, Benjamin Andrew
(47) 21.12.2022	H01M 4/48	Hartman, Jeffrey David
(51) H01L 31/02	H01M 10/05	Torpey, Matthew S.
H01L 31/05	H01M 10/052	Miller, Wayne Stephen
H02S 40/34	H01M 4/38	(74) dr. A. Krebs
(11) EP3136448	H01M 4/134	(31) 201615010987
(21) EP16192857.7	H01M 4/02	(32) 29.01.2016
(22) 26.09.2007	(11) EP3469644	(33) United States of America
(54) FORMED PHOTOVOLTAIC MODULE BUSBARS	(21) EP17732173.4	(47) 26.10.2022
(73) Maxeon Solar Pte. Ltd.	(22) 14.06.2017	
(72) ROSE, Douglas	(54) ELECTRODES FOR METAL-ION BATTERIES	(51) H01Q 9/14
DAROCZI, Shan		H01Q 5/321
PHU, Thomas	(73) Nexxon Limited	(11) EP3641058
(74) dr. W.A.H.M. Van Borm	(72) FRIEND, Christopher Michael	(21) EP19203054.2
(31) 543440	HATAZAWA, Tsuyonobu	(22) 14.10.2019
(32) 03.10.2006	(74) dr. R.C. van Duijvenbode c.s.	(54) SWITCHED MULTI-BAND ANTENNA AND RADIOFREQUENCY DEVICE COMPRISING SUCH AN ANTENNA
(33) United States of America	(31) 201610468	(73) Somfy Activites SA
(47) 16.11.2022	201610353	(72) ROBIN, Serge
(51) H01L 31/02	(32) 15.06.2016	(74) dr. R.C. van Duijvenbode c.s.
H02S 20/25	14.06.2016	(31) 1859524
H01L 31/05	(33) United Kingdom	(32) 15.10.2018
H01L 31/043	United Kingdom	(33) France
H01L 31/042	(47) 09.11.2022	(47) 05.10.2022
H01L 31/0224	(51) H01M 10/42	(51) H01R 25/14
(11) EP3686921	H01M 50/54	H02B 1/21
(21) EP18899027.9	H01M 50/586	H01R 4/38
(22) 06.12.2018	H01M 50/593	(11) EP3766146
(54) CELL SHEET FOR IMBRICATE ASSEMBLY, IMBRICATE ASSEMBLY,	H01M 10/04	(21) EP19705204.6
	H01M 50/103	(22) 21.02.2019
	H01M 50/176	
	H01M 50/383	

(54) A TOUCH PROTECTED BUSBAR SYSTEM	H02J 50/10 A24C 5/32	LEE, Changhau
(73) Wöhner Besitz GmbH	A24C 5/33	(74) dr. R.C. van Duijvenbode c.s.
(72) SCHOLZ, Alexander	H01F 38/18	(31) 201816183712
LENKER, Hubert	(11) EP3537617	(32) 07.11.2018
STEINBERGER, Philipp	(21) EP19161242.3	(33) United States of America
MASEL, Joram	(22) 07.03.2019	(47) 30.11.2022
(74) mr. ir. J. van Breda c.s.	(54) DEVICE FOR TESTING, PROCESSING AND/OR CONVEYING ARTICLES OF THE TOBACCO PROCESSING INDUSTRY	(51) H04L 1/00
(31) 18162101	(73) Körber Technologies GmbH	H04W 84/12
(32) 15.03.2018	(72) Gögel, Patrick	H04L 27/26
(33) European Patent Office (EPO)	Hansen, Volker	H04L 5/00
(47) 14.12.2022	(74) ir. F.A. Geurts c.s.	H04W 74/00
(51) H01S 5/06	(31) 102018105363	H04W 74/08
H01S 5/0625	(32) 08.03.2018	(11) EP3849157
H01S 5/40	(33) Germany	(21) EP21155498.5
H01S 5/0687	(47) 26.10.2022	(22) 26.12.2016
H01S 5/024	(51) H04B 7/04	(54) WIRELESS COMMUNICATION METHOD AND WIRELESS COMMUNICATION TERMINAL, WHICH USE DISCONTINUOUS CHANNEL
H01S 5/026	H04B 7/06	(73) Wilus Institute of Standards and Technology Inc.
H01S 5/028	H04L 25/03	SK TELECOM CO., LTD.
H01S 5/10	H04B 7/0456	(72) SON, Juhjung
H01S 5/12	(11) EP3940965	KWAK, Jinsam
(11) EP3271977	(21) EP21194851.8	KO, Geonjung
(21) EP16765817.8	(22) 24.09.2015	AHN, Woojin
(22) 18.03.2016	(54) NETWORK NODE, USER EQUIPMENT AND METHODS THEREIN TO ENABLE THE UE TO DETERMINE A PRECODER CODEBOOK	(74) dr. R.C. van Duijvenbode c.s.
(54) TUNABLE LASER INCLUDING PARALLEL LASING CAVITIES WITH A COMMON OUTPUT	(73) Telefonaktiebolaget LM Ericsson (publ)	(31) 20160083756
(73) Applied Optoelectronics, Inc.	(72) Jöngren, George	20160062422
(72) ZHENG, Jun	Wernersson, Niklas	20160059182
MURRY, Stefan J.	Faxér, Sebastian	20160030006
ANSELM, Klaus Alexander	Järmyr, Simon	20160026683
(74) J.M.H. Duyver lic.	(74) dr. R.C. van Duijvenbode c.s.	20160005835
(31) 201514661772	(31) 201462055350 P	20160004471
(32) 18.03.2015	(32) 25.09.2014	20150186871
(33) United States of America	(33) United States of America	(32) 01.07.2016
(47) 23.11.2022	(47) 14.12.2022	20.05.2016
(51) H02G 1/10	(51) H04J 11/00	14.05.2016
F03B 13/00	H04J 13/00	13.03.2016
H02G 9/06	H04W 48/10	04.03.2016
(11) EP3672000	(11) EP3682694	18.01.2016
(21) EP18213018.7	(21) EP18782569.0	13.01.2016
(22) 17.12.2018	(22) 05.09.2018	24.12.2015
(54) METHOD FOR INSTALLING AN OFFSHORE INSTALLATION	(54) PBCH SCRAMBLING DESIGN	(33) Korea (Republic)
(73) Siemens Gamesa Renewable Energy A/S	(73) Qualcomm Incorporated	Korea (Republic)
(72) Soerensen, Johnny	(72) LY, Hung Dinh	Korea (Republic)
(74) dr. R.C. van Duijvenbode c.s.	LUO, Tao	Korea (Republic)
(47) 30.11.2022	(74) dr. R.C. van Duijvenbode c.s.	Korea (Republic)
(51) H02M 3/07	(31) 201816121534	(47) 28.09.2022
H02M 3/158	201762556905 P	(51) H04L 1/18
(11) EP3158632	(32) 04.09.2018	(11) EP2478658
(21) EP15730506.1	11.09.2017	(21) EP10773430.3
(22) 22.06.2015	(33) United States of America	(22) 17.09.2010
(54) METHODS AND DEVICES FOR INCREASING THE VOLTAGE GAIN RANGE OF A DC-DC POWER CONVERTER	United States of America	(54) METHOD AND SYSTEM FOR HYBRID AUTOMATIC REPEAT REQUEST OPERATION FOR UPLINK COORDINATED MULTI-POINT SIGNALING
(73) Katholieke Universiteit Leuven	(47) 30.11.2022	(73) BlackBerry Limited
(72) CHATTERJEE, Urmimala	(51) H04L 1/00	(72) MCBEATH, Sean Michael
DRIESEN, Johan	H04L 1/18	FONG, Mo-Han
MASOLIN, Alex	(11) EP3878115	EARNSHAW, Mark
(74) ir. W.J.J.M. Kempes	(21) EP19805069.2	HEO, Youn Hyoung
(31) 201411022	(22) 29.10.2019	VRZIC, Sophie
(32) 20.06.2014	(54) APPARATUS AND METHODS FOR REAL TIME SOFT COMBINING OF DECRYPTED DATA	XU, Hua
(33) United Kingdom	(73) QUALCOMM Incorporated	
(47) 12.10.2022	(72) DENBOER, Huibert	
(51) H04B 5/00		

NOVAK, Robert	(32) 04.08.2020	(11) EP3695674
CAI, Zhijun	(33) United States of America	(21) EP18793728.9
(74) ir. W.J.J.M. Kempes	(47) 07.12.2022	(22) 03.10.2018
(31) 243795 P	(51) H04L 5/00	(54) CONFIGURATION ASPECTS OF A
(32) 18.09.2009	H04B 7/06	TRACKING REFERENCE SIGNAL IN
(33) United States of America	H04B 7/08	NEW RADIO
(47) 07.12.2022	(11) EP3506544	(73) Qualcomm Incorporated
(51) H04L 1/18	(21) EP17867222.6	(72) MANOLAKOS, Alexandros
H04L 5/00	(22) 01.11.2017	GAAL, Peter
(11) EP3742646	(54) METHOD AND APPARATUS FOR	YANG, Yang
(21) EP20159235.9	TRANSMITTING DOWNLINK CONTROL	LUO, Tao
(22) 08.07.2015	SIGNAL	NAM, Wooseok
(54) CARRIER SCHEDULING INDICATION	(73) Huawei Technologies Co., Ltd.	LEE, Heechoon
METHOD AND APPARATUS	(72) Li, Sainan	(74) dr. R.C. van Duijvenbode c.s.
(73) Huawei Technologies Co. Ltd.	ZHANG, Xi	(31) 201816149723
(72) TANG, Hao	HUANG, Huang	201762569940 P
GONG, Zhengwei	(74) ir. W.J.J.M. Kempes	(32) 02.10.2018
(74) ir. W.J.J.M. Kempes	(31) 201610974445	09.10.2017
(31) 201510069646	201610974038	(33) United States of America
(32) 10.02.2015	(32) 03.11.2016	United States of America
(33) China	03.11.2016	(47) 07.12.2022
(47) 19.10.2022	(33) China	(51) H04L 5/00
(51) H04L 5/00	China	H04W 36/30
(11) EP3692674	(47) 26.10.2022	H04W 36/16
(21) EP18808479.2	(51) H04L 5/00	H04W 76/28
(22) 01.10.2018	H04L 1/18	H04W 36/34
(54) PDCCH MONITORING PERIODICITY	(11) EP3311522	(11) EP3771135
(73) Telefonaktiebolaget LM Ericsson (publ)	(21) EP15895849.6	(21) EP20196978.9
(72) FALAHATI, Sorour	(22) 18.12.2015	(22) 18.01.2017
KOORAPATY, Havish	(54) ACK/NACK SIGNALS FOR NEXT	(54) TECHNIQUES FOR PROVIDING
PARKVALL, Stefan	GENERATION LTE DEVICES AND	UPLINK-BASED MOBILITY
BEHRAVAN, Ali	SYSTEMS	(73) QUALCOMM Incorporated
(74) ir. A. Blokland c.s.	(73) Apple Inc.	(72) KUBOTA, Keiichi
(31) 201762567075 P	(72) XIONG, Gang	HORN, Gavin, Bernard
(32) 02.10.2017	NIU, Huaning	Ji, Tingfang
(33) United States of America	ZHANG, Yushu	SORIAGA, Joseph, Binamira
(47) 07.12.2022	ZHU, Yuan	AZARIAN YAZDI, Kambiz
(51) H04L 5/00	SHIRANI-MEHR, Hooman	TAVILDAR, Saurabha, Rangrao
(11) EP3846375	(74) ir. A.R. Aalbers	(74) dr. R.C. van Duijvenbode c.s.
(21) EP21158651.6	(31) 201562180971 P	(31) 201615192513
(22) 06.10.2016	(32) 17.06.2015	201662280920 P
(54) METHODS AND APPARATUS	(33) United States of America	(32) 24.06.2016
RELATING TO SELECTIVE	(47) 05.10.2022	20.01.2016
ENHANCEMENT OF RADIO SIGNALS	(51) H04L 5/00	(33) United States of America
(73) Telefonaktiebolaget LM Ericsson (publ)	H04L 27/26	United States of America
(72) BERGSTRÖM, Andreas	(11) EP3613158	(47) 16.11.2022
ANDERSSON, Håkan	(21) EP18803082.9	(51) H04L 5/00
FURUSKOG, Johan	(22) 18.05.2018	H04W 72/02
WIBERG, Niclas	(54) METHOD AND APPARATUS	(11) EP3590216
(74) ir. A. Blokland c.s.	FOR REDUCTION OF CSI-RS	(21) EP18702834.5
(31) 201562244944 P	TRANSMISSION OVERHEAD IN	(22) 08.01.2018
(32) 22.10.2015	WIRELESS COMMUNICATION SYSTEM	(54) CHANNEL RASTER DESIGN IN
(33) United States of America	(73) Samsung Electronics Co., Ltd.	WIRELESS COMMUNICATIONS
(47) 07.12.2022	(72) KIM, Youngbum	(73) Qualcomm Incorporated
(51) H04L 5/00	LEE, Juho	(72) TOKGOZ, Yeliz
(11) EP4022832	KWAK, Youngwoo	CHEN, Wanshi
(21) EP21758956.3	KIM, Younsun	LEE, Heechoon
(22) 03.08.2021	NOH, Hoondong	GAAL, Peter
(54) UPLINK TRANSMISSIONS FOR	(74) dr. R.C. van Duijvenbode c.s.	SUN, Haitong
DOWNLINK CONTROL CHANNEL	(31) 20170154198	LY, Hung
REPETITION	20170062437	SORIAGA, Joseph Binamira
(73) Ofinno, LLC	(32) 17.11.2017	(74) dr. R.C. van Duijvenbode c.s.
(72) CIRIK, Ali Cagatay	19.05.2017	(31) 201815861565
DINAN, Esmael Hejazi	(33) Korea (Republic)	201762466966 P
YI, Yunjung	Korea (Republic)	(32) 03.01.2018
ZHOU, Hua	(47) 30.11.2022	03.03.2017
(74) dr. W.A.H.M. Van Borm	(51) H04L 5/00	(33) United States of America
(31) 202063060855 P	H04L 27/26	United States of America

(47) 30.11.2022	(74) dr. R.C. van Duijvenbode c.s.	H04W 48/18
(51) H04L 5/00	(31) 201314140263	(11) EP3732909
H04W 72/04	(32) 24.12.2013	(21) EP18894314.6
H04W 72/14	(33) United States of America	(22) 24.07.2018
(11) EP3577835	(47) 26.10.2022	(54) METHODS AND SYSTEMS FOR
(21) EP18706075.1	(51) H04L 9/40	PROVISIONING EMERGENCY
(22) 05.02.2018	H04W 12/122	NUMBERS
(54) METHOD AND APPARATUS FOR	H04W 12/125	(73) BlackBerry Limited
SHORT PDCCH OPERATION	(11) EP2923476	(72) RUSSELL, Nicholas James
(73) Motorola Mobility LLC	(21) EP13786729.7	BAKKER, Jan Hendrik Lucas
(72) BAGHERI, Hossein	(22) 01.11.2013	(74) ir. W.J.J.M. Kempes
NORY, Ravikiran	(54) INTRUSION PREVENTION AND	(31) 201762611992 P
NANGIA, Vijay	DETECTION IN A WIRELESS	(32) 29.12.2017
(74) ir. H.A. Witmans c.s.	NETWORK	(33) United States of America
(31) 201762455564 P	(73) WIFI SECURITIES LIMITED	(47) 07.12.2022
(32) 06.02.2017	(72) MARSHALL, Alan James	(51) H04L 65/1104
(33) United States of America	MCKINLEY, Alastair	H04L 12/14
(47) 30.11.2022	ZHOU, Bosheng	H04W 4/24
(51) H04L 5/00	(31) 201220957	H04M 15/00
H04W 74/08	(32) 21.11.2012	H04W 84/00
H04W 76/19	(33) United Kingdom	H04W 24/04
H04L 27/26	(47) 28.09.2022	H04W 24/02
(11) EP3815280	(51) H04L 27/26	(11) EP3769485
(21) EP18743604.3	(11) EP3384649	(21) EP18718247.2
(22) 29.06.2018	(21) EP16813289.2	(22) 23.03.2018
(54) SIGNALING CONFIGURATION FOR	(22) 02.12.2016	(54) NETWORK SLICING AWARENESS IN
RADIO ACCESS NETWORKS	(54) USE OF BOTH CYCLIC PREFIX AND	IP MULTIMEDIA SUBSYSTEM
(73) Telefonaktiebolaget LM Ericsson (publ)	ZERO TAIL IN DFT-SPREAD-OFDM	(73) TELEFONAKTIEBOLAGET LM
(72) Li, Jingya	(73) IDAC Holdings, Inc.	ERICSSON (PUBL)
BALDEMAIR, Robert	(72) PAN, Kyle, Jung-Lin	(72) KELLER, Ralf
ZHANG, Jianwei	PRAGADA, Ravikumar, V.	STILLE, Mats
WIEMANN, Henning	DENG, Tao	(74) ir. A. Blokland c.s.
(74) ir. A. Blokland c.s.	ROY, Vincent	(47) 07.12.2022
(47) 30.11.2022	DEENOO, Yugeswar	(51) H04L 65/612
(51) H04L 9/00	MA, Liangping	H04L 67/563
G06Q 20/00	BALA, Erdem	H04L 67/1097
(11) EP3350953	BELURI, Mihaela, C.	H04L 67/568
(21) EP16769847.1	(74) dr. ir. G.J.C. Verdijck c.s.	H04L 67/02
(22) 19.08.2016	(31) 201562262655 P	H04L 67/288
(54) THE TRANSFER OF DIGITAL	(32) 03.12.2015	(11) EP3729784
CURRENCY ENCRYPTION KEYS	(33) United States of America	(21) EP17825845.5
THROUGH THE PROCESS OF	(47) 28.09.2022	(22) 21.12.2017
ISSUANCE, VALIDATION AND	(51) H04L 47/2425	(54) METHODS AND APPARATUS FOR
DEVALUATION OF PHYSICAL	H04W 28/10	DELIVERING CONTENT
MEDIUM WITH MULTI-FACTOR	H04L 67/56	(73) TELEFONAKTIEBOLAGET LM
AUTHORIZATION, AND THE PHYSICAL	(11) EP3404877	ERICSSON (PUBL)
MEDIUM OF ENCRYPTION KEYS FOR	(21) EP16888883.2	(72) SKOG, Robert
DIGITAL CURRENCY TO CONDUCT	(22) 22.03.2016	MCEVILLY, Chris
THIS TRANSFER TECHNOLOGY	(54) SERVICE DATA TRANSMISSION	(74) ir. A. Blokland c.s.
(73) Sobotka, Petr	METHOD AND APPARATUS	(47) 09.11.2022
(72) Sobotka, Petr	(73) Huawei Technologies Co., Ltd.	(51) H04L 65/75
(74) dr. R.C. van Duijvenbode c.s.	(72) ZHENG, Xiaoxiao	H04L 65/612
(31) 20150562	HUANG, Min	H04L 65/613
(32) 20.08.2015	PANG, Lingli	H04L 65/80
(33) Czech Republic	BI, Hao	H04L 67/50
(47) 12.10.2022	(74) ir. W.J.J.M. Kempes	(11) EP3396923
(51) H04L 9/40	(31) PCT/CN2016/073545	(21) EP18163466.8
G06Q 30/02	(32) 04.02.2016	(22) 15.10.2010
(11) EP3142330	(33) World Intellectual Property Office (WIPO)	(54) ADAPTIVELY STREAMING
(21) EP16191495.7	(47) 26.10.2022	MULTIMEDIA
(22) 11.03.2014	(51) H04L 65/1016	(73) QUALCOMM Incorporated
(54) SYSTEMS AND METHODS FOR	H04L 65/1069	(72) CHOUDHURY, Sayeed
AUDIENCE MEASUREMENT	H04L 65/1053	VIJAYAKUMAR, Rajiv
(73) Google LLC	H04L 65/1073	MIR, Idreas
(72) STROBL, Reto	H04W 48/20	(74) dr. R.C. van Duijvenbode c.s.
ORBAN, Andras	H04W 4/90	(31) 90349110
MIRISOLA, Raimundo	H04W 76/50	25262109 P
GAYMOND, Oliver Thomas	H04W 76/10	(32) 13.10.2010

16.10.2009	(72) LEE, Jin-Wook	(74) dr. R.C. van Duijvenbode c.s.
(33) United States of America	KIM, Jin-Hyoung	(31) 15306528
United States of America	PARK, Woo-Jin	(32) 29.09.2015
(47) 16.11.2022	KANG, Shin-Il	(33) European Patent Office (EPO)
(51) H04L 67/1095	LIM, Hun	(47) 02.11.2022
H04L 67/52	RYU, Je-Hyok	(51) H04N 5/247
H04L 67/50	LEE, Gene-Moo	H04N 7/18
H04L 67/54	(74) dr. R.C. van Duijvenbode c.s.	G06V 20/52
H04L 67/131	(31) 20090027864	H04N 5/232
H04W 4/02	20090012155	H04N 5/225
(11) EP3876496	(32) 31.03.2009	G06K 9/00
(21) EP21153676.8	13.02.2009	G08B 13/196
(22) 13.06.2012	(33) Korea (Republic)	G03B 37/04
(54) MOBILE TERMINAL AND COMPUTER	Korea (Republic)	(11) EP3641298
PROGRAM PRODUCT FOR WIDGET	(47) 16.11.2022	(21) EP18817790.1
SHARING	(51) H04M 15/00	(22) 13.06.2018
(73) Huawei Device Co., Ltd.	H04W 4/24	(54) METHOD AND DEVICE FOR
(72) DENG, Junjie	H04L 12/14	CAPTURING TARGET OBJECT AND
(74) ir. W.J.J.M. Kempes	(11) EP3837805	VIDEO MONITORING DEVICE
(47) 26.10.2022	(21) EP18779375.7	(73) Hangzhou Hikvision Digital Technology
(51) H04L 67/12	(22) 28.09.2018	Co., Ltd.
G05B 23/02	(54) METHODS, APPARATUS AND	(72) SHEN, Lin
(11) EP3633958	COMPUTER-READABLE MEDIUMS	TONG, Hongxiang
(21) EP19157909.3	SUPPORTING SUBSCRIPTIONS TO	SHEN, Linjie
(22) 19.02.2019	EVENTS IN A CORE NETWORK	ZHANG, Shangdi
(54) CONTROLLING BEHAVIOR OF	(73) Telefonaktiebolaget LM Ericsson (publ)	(74) ir. H.A. Witmans c.s.
AN INTERNET OF THINGS (IOT)	(72) GARCIA AZORERO, Fuencisla	(31) 201710459265
AUTOMATION SYSTEM BY	(74) ir. A. Blokland c.s.	(32) 16.06.2017
IDENTIFYING POLICY VIOLATIONS	(31) 18382610	(33) China
(73) Tata Consultancy Services Limited	(32) 13.08.2018	(47) 26.10.2022
(72) JAYAPRAKASH, Rajesh	(33) European Patent Office (EPO)	(51) H04N 5/64
NAGARATHINAM, SRINARAYANA	(47) 14.12.2022	G09G 5/00
RAMANATHAN, Venkatesh	(51) H04N 5/232	H04N 7/173
SURIYANARAYANAN,	G03B 5/00	(11) EP2800358
Ramasubramanian	G06T 3/00	(21) EP12861745.3
SIVASUBRAMANIAM, Anand	H04N 5/262	(22) 13.12.2012
(74) dr. ir. G.J.C. Verdijck c.s.	G06T 5/00	(54) DISPLAY DEVICE, DISPLAY CONTROL
(31) 201821037320	(11) EP3637757	METHOD, AND PROGRAM
(32) 03.10.2018	(21) EP18803042.3	(73) Saturn Licensing LLC
(33) India	(22) 05.03.2018	(72) KONDO, Masao
(47) 12.10.2022	(54) IMAGE PROCESSING DEVICE,	(74) dr. R.C. van Duijvenbode c.s.
(51) H04M 1/02	IMAGE PROCESSING METHOD, AND	(31) 2011288089
H04N 5/225	PROGRAM	(32) 28.12.2011
(11) EP3633961	(73) Sony Group Corporation	(33) Japan
(21) EP18806894.4	(72) OZONE, Takayoshi	(47) 02.11.2022
(22) 10.05.2018	YAMAMOTO, Hiroshi	(51) H04N 7/14
(54) CAMERA ASSEMBLY, AND MOBILE	TADANO, Ryuichi	(11) EP3329670
TERMINAL	NAKAGAWA, Sho	(21) EP16831380.7
(73) Vivo Mobile Communication Co., Ltd.	(74) ir. W.J.J.M. Kempes	(22) 28.07.2016
(72) LIU, Ben	(31) 2017099169	(54) VIRTUAL VIDEO DRIVER BRIDGE
LI, Jun	(32) 18.05.2017	SYSTEM FOR MULTI-SOURCE
(74) J.M.H. Duyver lic.	(33) Japan	COLLABORATION WITHIN A WEB
(31) 201710377347	(47) 07.12.2022	CONFERENCING SYSTEM
(32) 25.05.2017	(51) H04N 5/232	(73) Mersive Technologies, Inc.
(33) China	H04R 1/40	(72) JAYNES, Christopher O.
(47) 07.12.2022	H04R 3/00	RUFF, Scott Allen
(51) H04M 1/72409	(11) EP3357230	(74) J.M.H. Duyver lic.
H04M 1/72412	(21) EP16775208.8	(31) 201562197763 P
H04M 1/2757	(22) 28.09.2016	(32) 28.07.2015
H04M 1/72436	(54) METHOD OF REFOCUSING IMAGES	(33) United States of America
H04M 1/72469	CAPTURED BY A PLENOPTIC	(47) 02.11.2022
(11) EP3860102	CAMERA AND AUDIO BASED	(51) H04N 19/105
(21) EP21163868.9	REFOCUSING IMAGE SYSTEM	H04N 19/119
(22) 12.02.2010	(73) InterDigital CE Patent Holdings	H04N 19/136
(54) OPERATION METHOD AND	(72) HELLIER, Pierre	H04N 19/176
ELECTRONIC DEVICE CONNECTED	DUONG, Quang Khanh Ngoc	H04N 19/196
TO A MOBILE DEVICE	ALLIE, Valérie	H04N 19/44
(73) Samsung Electronics Co., Ltd.	PEREZ, Patrick	H04N 19/46

H04N 19/593	(73) CANON KABUSHIKI KAISHA	(54) ENTITY, NETWORK, AND USER
(11) EP3567852	(72) KOBAYASHI, Masaaki	EQUIPMENT FOR A V2X SERVICE AS
(21) EP19184087.5	(74) J.M.H. Duyver lic.	WELL AS V2X APPLICATION
(22) 16.03.2010	(31) 2011004648	(73) HUAWEI TECHNOLOGIES CO., LTD.
(54) IMAGE PREDICTIVE DECODING	(32) 13.01.2011	(72) ZHOU, Chan
DEVICE AND IMAGE PREDICTIVE	(33) Japan	SAMDANIS, Konstantinos
DECODING METHOD	(47) 23.11.2022	PATEROMICHELAKIS, Emmanouil
(73) NTT DOCOMO, INC.	(51) H04N 19/124	DILLINGER, Markus, Martin
(72) BOON, Choong Seng	(11) EP3145188	(74) dr. W.A.H.M. Van Borm
SUZUKI, Yoshinori	(21) EP16188174.3	(47) 30.11.2022
(74) dr. ir. F.M. van Bouwelen	(22) 12.08.2011	(51) H04W 8/06
(31) 2009069975	(54) INTER PREDICTION ENCODING	H04W 48/18
(32) 23.03.2009	METHOD	H04W 76/27
(33) Japan	(73) M&K Holdings Inc.	H04W 12/065
(47) 21.12.2022	(72) OH, Soo Mi	H04W 48/04
(51) H04N 19/11	YANG, Moonock	H04L 9/40
H04N 19/159	(74) drs. C.M.A. Quintelier	(11) EP3577952
H04N 19/593	(31) 20110064306	(21) EP18748691.5
H04N 19/80	20100079530	(22) 29.01.2018
H04N 19/61	(32) 30.06.2011	(54) METHOD AND SYSTEM FOR
H04N 19/105	17.08.2010	SELECTION OF AN ACCESS
H04N 19/70	(33) Korea (Republic)	AND MOBILITY MANAGEMENT
H04N 19/182	Korea (Republic)	FUNCTION IN AN ACCESS NETWORK
(11) EP2658263	(47) 21.12.2022	ENVIRONMENT
(21) EP11850923.1	(51) H04N 19/52	(73) Nokia Technologies Oy
(22) 21.12.2011	(11) EP2672710	(72) CHANDRAMOULI, Devaki
(54) INTRA PREDICTION METHOD AND	(21) EP12829566.4	LANDAIS, Bruno
APPARATUS USING THE METHOD	(22) 06.09.2012	THIEBAUT, Laurent
(73) LG Electronics Inc.	(54) METHOD FOR DERIVING A	POIKSELKA, Miikka Juhana
(72) LIM, Jae Hyun	TEMPORAL PREDICTIVE MOTION	LEIS, Peter
JEON, Byeong Moon	VECTOR, AND APPARATUS USING	(74) ir. W.J.J.M. Kempes
SUNG, Jae Won	THE METHOD	(31) 201762454405 P
JEON, Yong Joon	(73) KT Corporation	(32) 03.02.2017
PARK, Joon Young	(72) LEE, Bae Keun	(33) United States of America
PARK, Seung Wook	KWON, Jae Cheol	(47) 30.11.2022
KIM, Jung Sun	KIM, Joo Young	(51) H04W 8/22
CHOI, Young Hee	(74) ir. H.A. Witmans c.s.	H04W 76/10
(74) J.M.H. Duyver lic.	(31) 20120039501	H04W 48/16
(31) 201161476311 P	20110091782	H04W 48/18
201161475636 P	(32) 17.04.2012	H04W 48/10
201161471185 P	09.09.2011	H04W 8/00
201161451121 P	(33) Korea (Republic)	H04W 88/06
201061426480 P	Korea (Republic)	(11) EP3554109
(32) 17.04.2011	(47) 26.10.2022	(21) EP17888339.3
14.04.2011	(51) H04S 7/00	(22) 25.02.2017
03.04.2011	G06F 3/16	(54) METHOD FOR ESTABLISHING
10.03.2011	H04R 5/033	COMMUNICATION, AND TERMINAL
22.12.2010	(11) EP3424229	(73) Huawei Technologies Co., Ltd.
(33) United States of America	(21) EP17760907.0	(72) LI, Jiaxin
United States of America	(22) 03.03.2017	CHEN, Jian
United States of America	(54) SYSTEMS AND METHODS FOR	YANG, Jun
United States of America	SPATIAL AUDIO ADJUSTMENT	QIAN, Jing
United States of America	(73) Google LLC	ZHOU, Yaoying
(47) 14.12.2022	(72) SEGUIN, Chad	(74) ir. W.J.J.M. Kempes
(51) H04N 19/119	MORISHITA, Michael, Kai	(31) 201611239419
H04N 19/124	(74) dr. R.C. van Duijvenbode c.s.	(32) 28.12.2016
H04N 19/136	(31) 201615059949	(33) China
H04N 19/176	(32) 03.03.2016	(47) 26.10.2022
H04N 19/463	(33) United States of America	(51) H04W 12/37
H04N 19/96	(47) 26.10.2022	H04M 1/725
(11) EP3668094	(51) H04W 4/44	G06F 16/903
(21) EP20151294.4	H04W 4/46	H04W 12/086
(22) 12.01.2012	H04W 28/02	H04W 12/08
(54) IMAGE CODING APPARATUS, IMAGE	H04L 47/2475	(11) EP2958306
CODING METHOD, AND PROGRAM,	(11) EP3741141	(21) EP15172388.9
AND IMAGE DECODING APPARATUS,	(21) EP18707899.3	(22) 16.06.2015
IMAGE DECODING METHOD, AND	(22) 26.02.2018	(54) AGGREGATION OF SEPARATE
PROGRAM		DOMAIN DATA

(73) BlackBerry Limited	07.02.2017	(32) 20.07.2015
(72) Fogel, Christopher Michael	11.01.2017	26.02.2015
Judge, Francis Patrick	09.01.2017	10.02.2015
Ratta, Brian Timothy	06.01.2017	(33) United States of America
Flanigan, Mark Justin	(33) United States of America	United States of America
Cherry, Carl Lloyd	United States of America	United States of America
Ewanchuk, Andrew John	United States of America	(47) 30.11.2022
(74) ir. W.J.J.M. Kempes	United States of America	(51) H04W 52/02
(31) 201414307204	United States of America	(11) EP3925312
(32) 17.06.2014	United States of America	(21) EP20705671.4
(33) United States of America	(47) 26.10.2022	(22) 14.02.2020
(47) 07.12.2022	(51) H04W 36/08	(54) WIRELESS COMMUNICATION
(51) H04W 28/02	B63B 49/00	DEVICE, RADIO ACCESS NETWORK
H04W 76/11	G01S 19/01	NODE, METHODS, AND COMPUTER
H04W 76/12	H04W 36/36	PROGRAMS FOR POWER EFFICIENT
H04W 80/02	(11) EP3823356	PAGING ESCALATION
H04W 80/08	(21) EP19209776.4	(73) Telefonaktiebolaget LM Ericsson (publ)
(11) EP3913967	(22) 18.11.2019	(72) ÅSTRÖM, Magnus
(21) EP21186025.9	(54) MARINE RADIO CHANNEL	LIBERG, Olof
(22) 05.06.2018	PROPOSITION EQUIPMENT, MARINE	HÖGLUND, Andreas
(54) DATA TRANSMISSION METHOD,	RADIO CHANNEL PROPOSITION	(74) ir. A. Blokland c.s.
DATA TRANSMITTING ENDS AND	PROGRAM AND MARINE RADIO	(31) 201962805608 P
COMPUTER READABLE STORAGE	CHANNEL PROPOSITION METHOD	(32) 14.02.2019
MEDIUM	(73) Japan Radio Co., Ltd.	(33) United States of America
(73) VIVO MOBILE COMMUNICATION CO.,	Alphatron Marine Beheer B.V.	(47) 14.12.2022
LTD.	(72) TAMAOKI, Hirofumi	(51) H04W 52/14
(72) WU, Yumin	OKUDE, Takeshi	H04W 52/08
(74) J.M.H. Duyver lic.	IMADA, Yoshihiko	H04W 52/24
(31) 201710431213	MIURA, Takashi	H04W 52/32
(32) 08.06.2017	VROOMBOUT, Luuk	H04W 72/04
(33) China	EERDEN, Bas	H04L 5/00
(47) 07.12.2022	ROEST, Maarten	H04W 8/26
(51) H04W 28/06	(74) dr. R.C. van Duijvenbode c.s.	H04W 52/34
H04L 69/22	(47) 05.10.2022	(11) EP3843466
H04W 80/02	(51) H04W 36/20	(21) EP20200054.3
(11) EP3459321	H04L 27/00	(22) 13.05.2016
(21) EP17805654.5	H04W 16/14	(54) POWER CONTROL METHOD AND
(22) 16.05.2017	H04B 1/715	APPARATUS
(54) RELAYING PDCP PACKETS	H04W 36/00	(73) Huawei Technologies Co., Ltd.
(73) Huawei Technologies Co., Ltd.	H04W 72/04	(72) ZHANG, Lili
(72) TENNY, Nathan Edward	H04W 88/06	(74) ir. W.J.J.M. Kempes
WANG, Da	(11) EP3751904	(47) 26.10.2022
OUYANG, Guowei	(21) EP20181357.3	(51) H04W 52/32
JIN, Hui	(22) 13.08.2010	H04W 52/14
LI, Guorong	(54) METHODS FOR COMMUNICATION	H04W 52/36
(74) ir. W.J.J.M. Kempes	IMPLEMENTATION FOR A TERMINAL	H04W 52/58
(31) 201615172618	DEVICE	(11) EP3744132
(32) 03.06.2016	(73) ZTE Corporation	(21) EP19704488.6
(33) United States of America	(72) SHI, Xiaojuan	(22) 22.01.2019
(47) 26.10.2022	(74) ir. A.R. Aalbers	(54) TRANSMIT POWER CONTROL
(51) H04W 36/00	(47) 19.10.2022	COMMAND HANDLING ACROSS
H04W 36/14	(51) H04W 48/12	MULTIPLE DOWNLINK CONTROL
(11) EP3566493	(11) EP3257297	INFORMATION
(21) EP18735839.5	(21) EP16706073.0	(73) QUALCOMM Incorporated
(22) 08.01.2018	(22) 01.02.2016	(72) AKKARAKARAN, Sony
(54) INTER-RAT HANDOVER FOR NEXT	(54) ON-DEMAND SYSTEM INFORMATION	GAAL, Peter
GENERATION SYSTEM	(73) Qualcomm Incorporated	HUANG, Yi
(73) Samsung Electronics Co., Ltd.	(72) KUBOTA, Keiichi	YANG, Wei
(72) BHARATIA, Jayshree A.	SORIAGA, Joseph, Binamira	WANG, Renqiu
(74) dr. R.C. van Duijvenbode c.s.	HORN, Gavin, Bernard	(74) dr. R.C. van Duijvenbode c.s.
(31) 201815861328	SMEE, John, Edward	(31) 201916253211
201762455638 P	JI, Tingfang	201862621033 P
201762455629 P	ZENG, Wei	(32) 21.01.2019
201762445074 P	BHUSHAN, Naga	23.01.2018
201762443868 P	(74) dr. R.C. van Duijvenbode c.s.	(33) United States of America
201762443344 P	(31) 201514803793	United States of America
(32) 03.01.2018	201562121326 P	(47) 16.11.2022
07.02.2017	201562114157 P	(51) H04W 56/00

(11) EP3047687	H04L 5/00	H04W 48/16
(21) EP13894816.1	H04L 27/26	(11) EP3753333
(22) 27.09.2013	H04W 72/12	(21) EP19710183.5
(54) METHODS AND APPARATUS FOR WIRELESS DEVICE SYNCHRONIZATION	(11) EP3751923	(22) 14.02.2019
(73) Nokia Technologies Oy	(21) EP19751272.6	(54) PHYSICAL DOWNLINK CONTROL CHANNEL HASH FUNCTION UPDATE
(72) ZHANG, Zhi	(22) 02.02.2019	(73) QUALCOMM INCORPORATED
SHU, Kodo	(54) METHOD FOR TRANSMITTING UCI, AND USER TERMINAL	(72) XU, Huilin
HUGL, Klaus	(73) Vivo Mobile Communication Co., Ltd.	SUN, Jing
KORHONEN, Juha Sakari	(72) PAN, Xueming	PIERROT, Alexandre
LI, Zexian	Jl, Zichao	LEE, Heechoon
LEI, Yixue	(74) J.M.H. Duyver lic.	(74) dr. R.C. van Duijvenbode c.s.
(74) ir. W.J.J.M. Kempes	(31) 201810136167	(31) 201916275228
(47) 30.11.2022	(32) 09.02.2018	201862710307 P
(51) H04W 56/00	(33) China	(32) 13.02.2019
(11) EP3723422	(47) 07.12.2022	16.02.2018
(21) EP20178443.6	(51) H04W 72/04	(33) United States of America
(22) 10.08.2018	(11) EP3499995	United States of America
(54) METHOD AND DEVICE FOR SYNCHRONIZATION	(21) EP16912447.6	(47) 07.12.2022
(73) Telefonaktiebolaget LM Ericsson (publ.)	(22) 12.08.2016	(51) H04W 72/04
(72) LIN, Zhipeng	(54) RESOURCE SCHEDULING METHOD, SCHEDULER, BASE STATION, TERMINAL, AND SYSTEM	H04B 7/06
WANG, Jianfeng	(73) Beijing Xiaomi Mobile Software Co., Ltd.	H04W 28/18
(74) ir. A. Blokland c.s.	(72) LIU, Yang	H04W 28/16
(31) PCT/CN2017/097282	ZHANG, Ming	H04W 76/12
(32) 11.08.2017	(74) ir. H.A. Witmans c.s.	H04W 84/12
(33) World Intellectual Property Office (WIPO)	(47) 02.11.2022	H04W 48/16
(47) 30.11.2022	(51) H04W 72/04	(11) EP3764718
(51) H04W 56/00	(11) EP3629646	(21) EP20192533.6
(11) EP3873144	(21) EP17913466.3	(22) 11.11.2010
(21) EP21169184.5	(22) 15.06.2017	(54) METHOD AND APPARATUS FOR SUPPORTING MANAGEMENT ACTIONS FOR VERY HIGH THROUGHPUT IN WIRELESS COMMUNICATIONS
(22) 30.06.2014	(54) METHOD AND DEVICE FOR CONFIGURING TIME SLOT RESOURCES IN WIRELESS COMMUNICATION	(73) Interdigital Patent Holdings, Inc.
(54) PROVISION OF TIME INFORMATION TO A WIRELESS DEVICE	(73) Huawei Technologies Co., Ltd.	(72) Grandhi, Sudheer, A.
(73) Telefonaktiebolaget LM Ericsson (publ.)	(72) GAO, Fei	(74) dr. ir. G.J.C. Verdijk c.s.
(72) Frenger, Pål	JIAO, Shurong	(31) 26119709 P
Eriksson, Erik	TIE, Xiaolei	(32) 13.11.2009
Hessler, Martin	(74) dr. W.A.H.M. Van Borm	(33) United States of America
(74) ir. A. Blokland c.s.	(47) 30.11.2022	(47) 02.11.2022
(47) 07.12.2022	(51) H04W 72/04	(51) H04W 72/04
(51) H04W 68/12	(11) EP3740010	H04W 72/12
H04W 68/02	(21) EP20182981.9	H04L 1/16
H04W 48/16	(22) 17.05.2013	H04L 1/18
H04W 72/12	(54) NARROW BAND PARTITIONING AND EFFICIENT RESOURCE ALLOCATION FOR LOW COST USER EQUIPMENTS	H04L 5/00
H04W 88/06	(73) QUALCOMM Incorporated	(11) EP3768012
(11) EP3522627	(72) CHEN, Wanshi	(21) EP18918115.9
(21) EP17867200.2	XU, Hao	(22) 08.05.2018
(22) 31.10.2017	GAAL, Peter	(54) WIRELESS COMMUNICATION METHOD AND DEVICE, CHIP, AND SYSTEM
(54) METHODS AND DEVICES FOR PROVIDING SERVICE IN WIRELESS COMMUNICATION SYSTEM	(74) dr. R.C. van Duijvenbode c.s.	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(73) Samsung Electronics Co., Ltd.	(31) 201313896139	(72) LIN, Yanan
(72) PARK, Jungshin	201261648716 P	LIN, Huei-Ming
MOON, Sangjun	201261648512 P	(74) ir. W.J.J.M. Kempes
LEE, Hyungho	(32) 16.05.2013	(47) 30.11.2022
BAE, Beomsik	18.05.2012	(51) H04W 72/12
KIM, Daegyung	17.05.2012	H04L 27/26
LEE, Jinsung	(33) United States of America	H04W 8/22
LEE, Joohyung	United States of America	H04W 28/18
KWEON, Kisuk	United States of America	H04W 48/16
LEE, Jicheol	(47) 23.11.2022	H04W 72/04
(74) dr. R.C. van Duijvenbode c.s.	(51) H04W 72/04	H04L 5/00
(31) 20160144210	H04B 7/02	(11) EP3537828
(32) 01.11.2016	H04L 5/00	(21) EP17868442.9
(33) Korea (Republic)	H04W 48/12	(22) 25.08.2017
(47) 30.11.2022		
(51) H04W 72/02		

(54) USER EQUIPMENT AND UPLINK SIGNAL TRANSMISSION METHOD	LI, Junyi	(54) NANOPARTICULATE ENCAPSULATION BARRIER STACK
(73) NTT DOCOMO, INC.	(74) dr. R.C. van Duijvenbode c.s.	(73) Agency for Science, Technology And Research
(72) MOROGA, Hideyuki	(31) 201816055878	(72) CHUA, Soo Jin
TAKEDA, Kazuki	201762542757 P	RAMADAS, Senthil Kumar
TAKEDA, Kazuaki	(32) 06.08.2018	(74) ir. A.R. Aalbers
NAGATA, Satoshi	08.08.2017	(47) 12.10.2022
(74) dr. ir. F.M. van Bouwelen	(33) United States of America	<hr/>
(31) 2016215707	United States of America	(51) H05B 45/10
(32) 02.11.2016	(47) 30.11.2022	(11) EP3125647
(33) Japan	(51) H04W 76/19	(21) EP16181029.6
(47) 21.12.2022	H04W 76/27	(22) 25.07.2016
<hr/>	(11) EP3782430	(54) DIMMING OF LIGHTING DEVICES
(51) H04W 72/12	(21) EP19727072.1	(73) Siemens Schweiz AG
H04W 72/04	(22) 16.04.2019	(72) Stieglbauer, Walter
(11) EP3720227	(54) HANDLING OF INACTIVE	(74) dr. R.C. van Duijvenbode c.s.
(21) EP20176835.5	PARAMETERS UPON RELEASE AND	(31) 102015214633
(22) 19.12.2017	RE-SUSPEND	(32) 31.07.2015
(54) METHODS AND APPARATUS FOR	(73) Telefonaktiebolaget LM Ericsson (publ)	(33) Germany
UTILIZING SHORT TRANSMISSION	(72) MILDH, Gunnar	(47) 05.10.2022
TIME INTERVALS IN A WIRELESS	DA SILVA, Icaro L. J.	<hr/>
COMMUNICATIONS NETWORK	(74) ir. A. Blokland c.s.	(51) H05G 1/32
(73) Telefonaktiebolaget LM Ericsson (publ)	(31) 201862657974 P	A61B 6/03
(72) WIKSTRÖM, Gustav	(32) 16.04.2018	A61B 6/00
ARSHAD, Malik Wahaj	(33) United States of America	(11) EP2454925
ENBUSKE, Henrik	(47) 07.12.2022	(21) EP10800551.3
FOLKE, Mats	<hr/>	(22) 15.07.2010
KARLSSON, Robert	(51) H05B 6/12	(54) SYSTEM AND METHOD FOR
DUDDA, Torsten	(11) EP3185647	AUTOMATIC TUBE POTENTIAL
(74) ir. A. Blokland c.s.	(21) EP16200685.2	SELECTION FOR RADIATION DOSE
(31) 201762454115 P	(22) 25.11.2016	REDUCTION IN CT
(32) 03.02.2017	(54) INDUCTION COOKING HOB DEVICE	(73) MAYO FOUNDATION FOR MEDICAL
(33) United States of America	(73) BSH Hausgeräte GmbH	EDUCATION AND RESEARCH
(47) 23.11.2022	(72) Artigas Maestre, Jose Ignacio	(72) MCCOLLOUGH, Cynthia, H.
<hr/>	Arto Sánchez, Guillermo	FLETCHER, Joel, G.
(51) H04W 74/08	Cabeza Gozalo, Tomas	LI, Hua
(11) EP3793315	Falco Boudet, Jorge Luis	YU, Lifeng
(21) EP20205056.3	Llorente Gil, Sergio	(74) dr. ir. G.J.C. Verdijk c.s.
(22) 28.08.2018	Hernandez Blasco, Pablo Jesus	(31) 225818 P
(54) PHYSICAL LAYER ENHANCEMENTS	(31) 201531880	(32) 15.07.2009
FOR EARLY DATA TRANSMISSION	(32) 22.12.2015	(33) United States of America
(73) QUALCOMM Incorporated	(33) Spain	(47) 05.10.2022
(72) PHUYAL, Umesh	(47) 28.09.2022	<hr/>
RICO ALVARINO, Alberto	(51) H05B 6/54	(51) H05K 7/20
LIU, Le	A23L 3/01	G05D 16/20
DHANDA, Mungal Singh	A23L 3/04	(11) EP3668291
WANG, Xiao Feng	H05B 6/60	(21) EP1885298.6
(74) dr. R.C. van Duijvenbode c.s.	H05B 6/62	(22) 05.09.2018
(31) 201816113476	(11) EP3922081	(54) NEGATIVE PRESSURE LIQUID
201762588284 P	(21) EP20706603.6	COOLING SYSTEM AND CONTROL
(32) 27.08.2018	(22) 05.02.2020	METHOD THEREFOR
17.11.2017	(54) DEVICE AND METHOD FOR	(73) Huawei Technologies Co., Ltd.
(33) United States of America	HOMOGENEOUSLY HEAT-TREATING A	(72) DING, Junfeng
United States of America	PRODUCT BY RADIO FREQUENCY	(74) dr. W.A.H.M. Van Borm
(47) 07.12.2022	(73) Top B.V.	(31) 201710796380
<hr/>	(72) VAN DEN BOSCH, Henricus Franciscus	(32) 06.09.2017
(51) H04W 76/12	Maria	(33) China
H04W 84/04	BUNT, Teunis	(47) 30.11.2022
H04W 88/08	(74) dr. A. Ellens c.s.	<hr/>
(11) EP3666037	(31) 2022508	
(21) EP18765230.0	(32) 05.02.2019	
(22) 07.08.2018	(33) Netherlands	
(54) COMMUNICATING REMOTE AND	(47) 30.11.2022	
LOCAL DATA IN A WIRELESS	<hr/>	
FRONTHAUL	(51) H05B 33/04	
(73) Qualcomm Incorporated	C09K 11/00	
(72) ISLAM, Muhammad Nazmul	B32B 27/02	
ABEDINI, Navid	H01L 51/52	
HAMPEL, Karl Georg	(11) EP2082619	
SUBRAMANIAN, Sundar	(21) EP06813114.3	
CHENG, Hong	(22) 06.11.2006	

EP4

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

(51) A47L 9/14	(47) 23.04.2014	(21) EP15194605.0
A47L 9/10	(51) C12Q 1/68	(22) 13.11.2015
(11) EP2442702	(11) EP3133166	(54) ATOMIZING DEVICE AND
(21) EP10721327.4	(21) EP15184389.3	ELECTRONIC CIGARETTE HAVING
(22) 17.05.2010	(22) 09.09.2015	SAME
(54) Flat bag for a vacuum cleaner	(54) COMPOSITION AND METHOD FOR	(73) Shenzhen First Union Technology Co.,
(73) Eurofilters N.V.	HYBRIDIZING	Ltd.
(72) SCHULTINK, Jan	(73) 42 life sciences GmbH & Co. KG	(72) Li, Yonghai
SAUER, Ralf	(74) ir. J.C. Volmer c.s.	XU, Zhongli
(31) 09008064	(72) ROGALLA, Piere	HU, Shuyun
(32) 19.06.2009	HAUKE, Sven	(31) 201420680673 U
(33) European Patent Office (EPO)	(31) 15184010	(32) 14.11.2014
(47) 31.08.2016	15183642	(33) China
(51) A61F 2/24	15002487	(47) 25.07.2018
A61F 2/95	(32) 07.09.2015	
(11) EP2938291	03.09.2015	
(21) EP13817692.0	21.08.2015	
(22) 24.12.2013	(33) European Patent Office (EPO)	
(54) APPARATUS AND SET FOR FOLDING	European Patent Office (EPO)	
OR UNFOLDING A MEDICAL	European Patent Office (EPO)	
IMPLANT COMPRISING A CLAMPING	(47) 14.08.2019	
MECHANISM	(51) F17C 7/04	
(73) Venus MedTech (HangZhou), Inc.	(11) EP2753861	
(74) ir. H.A. Witmans c.s.	(21) EP12775277.2	
(72) LIM, Hou-Sen	(22) 06.09.2012	
GÖTZ, Wolfgang	(54) METHOD AND APPARATUS FOR	
(31) 13003879	POWER STORAGE	
13002534	(73) Highview Enterprises Limited	
12008632	(74) ir. M.F.J.M. Ketelaars c.s.	
(32) 02.08.2013	(72) MORGAN, Robert	
14.05.2013	NELMES, Stuart	
27.12.2012	CASTELLUCCI, Nicola	
(33) European Patent Office (EPO)	BRETT, Stephen Gareth	
European Patent Office (EPO)	(31) 201115336	
European Patent Office (EPO)	(32) 06.09.2011	
(47) 31.07.2019	(33) United Kingdom	
(51) B32B 27/08	(47) 30.05.2018	
B32B 27/32	(51) G01N 23/20	
C08J 5/18	(11) EP2710355	
(11) EP2528737	(21) EP12725651.9	
(21) EP11710414.1	(22) 16.05.2012	
(22) 26.01.2011	(54) METHOD OF DETECTING	
(54) MATT POLYOLEFIN FILM HAVING	POLYMORPHS USING	
RELEASE PROPERTIES	SYNCHROTRON RADIATION	
(73) Treofan Germany GmbH & Co. KG	(73) ZETACUBE S.r.l.	
(72) HÜTT, Detlef	(72) BRESCELLO, Roberto	
(31) 102010006379	COTARCA, Livius	
(32) 29.01.2010	SMANIOTTO, Anna	
(33) Germany	VERZINI, Massimo	
(47) 25.06.2014	POLENTARUTTI, Maurizio	
(51) C04B 41/91	BAIS, Giorgio	
G04B 37/22	PLAISIER, Jasper Rikkert	
(11) EP2543653	(31) 11166354	
(21) EP11172580.0	(32) 17.05.2011	
(22) 04.07.2011	(33) European Patent Office (EPO)	
(54) Method for manufacturing a matt ceramic	(47) 27.07.2016	
(73) Comadur S.A.	(51) H05B 3/44	
(72) Boucard, Sylvain	H05B 3/46	
Hawrylko, Jean-Mary	A24F 47/00	
	(11) EP3020292	

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) A23C 11/04	B01J 37/16	B28B 1/00
A23C 17/00	B09C 1/00	B23K 26/34
(11) EP2533650	B09C 1/08	B23K 26/30
(21) EP11702852.2	C02F 1/28	B29C 67/00
(22) 14.02.2011	C02F 1/70	(11) EP2878409
(54) SUBSTITUTE MILK PRODUCT	C02F 101/10	(21) EP13194599.0
(73) Arla Foods Amba	C02F 101/32	(22) 27.11.2013
(72) KIERBYE, Ida	C02F 101/36	(54) Method of and device for controlling an irradiation system
TOFT NIELSEN, Jacob	C02F 103/06	(73) SLM Solutions Group AG
(74) J.M.H. Duyver lic.	C02F 3/10	(72) Schwarze, Dr. Dieter
(31) 201070541	C02F 3/28	Schoeneborn, Henner
303776 P	C02F 3/34	(74) J.M.H. Duyver lic.
(32) 10.12.2010	B01J 37/08	(47) 30.03.2016
12.02.2010	B01J 35/10	<hr/>
(33) Denmark	B01J 20/30	(51) B32B 17/10
United States of America	B01J 20/02	(11) EP2439066
(47) 26.03.2014	B01J 21/18	(21) EP11183946.0
<hr/>	B01J 23/745	(22) 05.10.2011
(51) A23L 33/17	(11) EP1521723	(54) Laminated glass
A23J 1/10	(21) EP03764339.2	(73) Schott AG
A23J 3/30	(22) 30.06.2003	(72) Wehmeier, Lutz, Dr.
C08H 1/06	(54) COMPOSITIONS FOR REMOVING HYDROCARBONS AND HALOGENATED HYDROCARBONS FROM CONTAMINATED ENVIRONMENTS	Freitag, Rüdiger
(11) EP2832236	(73) Remediation Products, Inc.	Panzner, Gerrit
(21) EP13178511.5	(72) NOLAND, Scott	(74) ir. W.J.J.M. Kempes
(22) 30.07.2013	ELLIOTT, Bob	(31) 102010037966
(54) METHOD FOR PRODUCING HYDROLYSED KERATINACEOUS MATERIAL	(74) ir. H.A. Witmans c.s.	(32) 05.10.2010
(73) Tessenderlo Group NV/SA	(31) 194946	(33) Germany
(72) Blutel, Philippe	(32) 12.07.2002	(47) 16.12.2015
Fillières, Romain	(33) United States of America	<hr/>
(74) drs. W.H.P. Derks	(47) 21.08.2019	(51) B60T 17/02
(47) 23.03.2016	<hr/>	B60T 13/22
<hr/>	(51) B23F 5/20	F15B 7/00
(51) A61K 31/47	B23F 9/08	F15B 15/18
A61K 31/517	B23F 21/12	F16D 65/28
A61P 35/00	B23F 21/20	B60T 13/26
A61P 35/04	B23F 23/00	B60T 13/66
(11) EP2621481	(11) EP2367656	B60T 13/68
(21) EP11764655.4	(21) EP09798885.1	B60T 15/02
(22) 26.09.2011	(22) 16.12.2009	F16D 59/02
(54) DUAL INHIBITORS OF MET AND VEGF FOR THE TREATMENT OF CASTRATION-RESISTANT PROSTATE CANCER AND OSTEOBLASTIC BONE METASTASES	(54) MACHINE TOOL AND METHOD FOR PRODUCING GEARING	(11) EP3003808
(73) Exelixis, Inc.	(73) Voith Patent GmbH	(21) EP14727453.4
(72) SMITH, David	Gebr. Heller Maschinenfabrik GmbH	(22) 27.05.2014
HUSSAIN, Maha	(72) HÜTTER, Wolfgang	(54) FUNCTIONAL UNIT AND ELECTROHYDRAULIC BRAKE RELEASE DEVICE COMPRISING SUCH A FUNCTIONAL UNIT
(74) ir. F.A. Geurts c.s.	HUMMEL, Erhard	(73) Pintsch Bubenzer GmbH
(31) 201161481671 P	(74) drs. A.A. Jilderda	(72) GENTZSCH, Iris
386959 P	(31) 102008063858	(74) dr. ir. G.J.C. Verdijk c.s.
(32) 02.05.2011	(32) 19.12.2008	(31) 102013105445
27.09.2010	(33) Germany	(32) 28.05.2013
(33) United States of America	(47) 25.06.2014	(33) Germany
United States of America	<hr/>	(47) 13.02.2019
(47) 14.08.2019	(51) B23K 15/00	<hr/>
<hr/>	B22F 3/00	(51) B61C 5/00
(51) B01J 20/32	B22F 3/105	(11) EP3078561
B01J 20/20	B23K 26/14	(21) EP15305522.3
		(22) 09.04.2015

(54) A RAILWAY TRACTION VEHICLE WITH A MODULAR FUEL GAS TANK	Tani, Petri	(72) Degelsegger, Walter
(73) ALSTOM Transport Technologies	Salminen, Arto	(74) ir. W.J.J.M. Kempes
(72) Schwab, Wolfram	Kivivasara, Jukka	(31) 9572013
(74) ir. A.R. Aalbers	Rissanen, Mikko	(32) 13.12.2013
(47) 19.06.2019	(74) ir. H.A. Witmans c.s.	(33) Austria
(51) C08G 63/18	(31) 20085543	(47) 20.06.2018
B65D 23/10	(32) 03.06.2008	(51) F01L 1/18
B65D 1/02	(33) Finland	F01L 13/00
B29C 49/00	(47) 10.02.2016	F01L 1/053
(11) EP2890727	(51) C10M 133/06	(11) EP3337960
(21) EP12756435.9	C10M 133/54	(21) EP15751021.5
(22) 31.08.2012	C10M 141/06	(22) 19.08.2015
(54) METHOD OF MAKING A BOTTLE MADE OF FDCA AND DIOL MONOMERS	C10M 141/08	(54) A VARIABLE VALVE ACTUATION MECHANISM, AN INTERNAL COMBUSTION ENGINE, AND A VEHICLE
(73) Société Anonyme des Eaux Minérales d'Evian et en Abrégé "S.A.E.M.E"	C10M 163/00	(73) Volvo Truck Corporation
(72) POULAT, Françoise	C10N 30/02	(72) KARLSSON, Johan
REUTENAUER, Philippe	C10N 30/06	NORÉN, David
(74) J.M.H. Duyver lic.	C10N 30/12	BONDESON, Hans
(47) 22.03.2017	C10N 40/25	(74) J.M.H. Duyver lic.
(51) C08L 27/06	(11) EP2486113	(47) 20.11.2019
(11) EP3216831	(21) EP10763367.9	(51) F17C 6/00
(21) EP17159814.7	(22) 08.10.2010	F17C 9/00
(22) 08.03.2017	(54) LUBRICATING COMPOSITION	F17C 13/02
(54) A WATERPROOFING MEMBRANE COMPOSITION	(73) Shell Internationale Research Maatschappij B.V.	(11) EP3359867
(73) S.A. Imperbel N.V.	(72) GARCIA OJEDA, Jose Luis	(21) EP16793944.6
(72) AERTS, Hans	(74) ir. W.J.J.M. Kempes	(22) 05.10.2016
(74) ir. W.J.J.M. Kempes	(31) 09172633	(54) METHOD FOR SUPPLYING CRYOGENIC LIQUID, AND FACILITY FOR IMPLEMENTING SAID METHOD
(31) 16159206	(32) 09.10.2009	(73) Cryostar SAS
(32) 08.03.2016	(33) European Patent Office (EPO)	(72) OURY, Simon
(33) European Patent Office (EPO)	(47) 21.01.2015	(74) ir. W.J.J.M. Kempes
(47) 12.06.2019	(51) C11D 3/386	(31) 1559472
(51) C09D 5/00	C12N 9/98	(32) 05.10.2015
C09D 201/02	(11) EP2126026	(33) France
C09D 101/26	(21) EP08724493.5	(47) 02.10.2019
C09D 103/02	(22) 11.01.2008	(51) H04B 7/04
C09D 103/06	(54) IMPROVED SPRAY DRYING PROCESS	H03M 13/11
C09D 103/08	(73) Danisco US Inc.	H04W 84/12
C09D 105/08	(72) SCHER, Herbert B.	H04L 1/00
C09D 129/04	WINETZKY, Deborah S.	H04L 1/06
C09D 133/26	(74) ir. W.J.J.M. Kempes	H04L 27/26
C09D 139/02	(31) 884860 P	(11) EP3402088
C08J 7/043	(32) 12.01.2007	(21) EP18175219.7
C09J 7/40	(33) United States of America	(22) 30.06.2011
D21H 19/20	(47) 16.03.2016	(54) METHOD AND APPARATUS FOR TRANSCIEIVING A MIMO PACKET IN A WIRELESS LAN SYSTEM
D21H 19/24	(51) C12N 15/86	(73) LG Electronics Inc.
D21H 27/06	(11) EP3060668	(72) LEE, Dae Won
D21H 27/20	(21) EP14792441.9	KANG, Byeong Woon
D21H 19/82	(22) 24.10.2014	NOH, Yu Jin
D21H 19/10	(54) VECTORS FOR TRANSGENE EXPRESSION	SEOK, Yong Ho
D21H 17/34	(73) Adaptimmune Limited	ROH, Dong Wook
C09D 101/32	(72) KAN, On	(74) J.M.H. Duyver lic.
(11) EP2574644	(74) dr. R.C. van Duijvenbode c.s.	(31) 40754610 P
(21) EP12191610.0	(31) 201318804	36267310 P
(22) 18.05.2009	201361894994 P	36091510 P
(54) RELEASE LINER BASE MATERIAL, METHOD FOR PRODUCING IT AND USE THEREOF	(32) 24.10.2013	(32) 28.10.2010
(73) UPM Specialty Papers Oy	(33) United Kingdom	08.07.2010
(72) Saarinen, Jarkko	United States of America	01.07.2010
Kosonen, Harri	(47) 19.06.2019	(33) United States of America
Koskinen, Kaj	(51) E06B 3/12	United States of America
Koskinen, Timo	E06B 3/16	United States of America
Seppälä, Jukka	(11) EP3080375	(47) 05.08.2020
Pohjola, Leila	(21) EP14835651.2	(51) H04R 25/02
	(22) 13.12.2014	
	(54) DEVICE FOR CLOSING AN OPENING IN A BUILDING	
	(73) Degelsegger, Walter	

A61F 11/08

- (11) EP2749043
 - (21) EP12825445.5
 - (22) 24.08.2012
 - (54) EAR TIP PIECE FOR ATTENUATING
SOUND
 - (73) Magnatone Hearing Aid Corporation
 - (72) CAMPBELL, Don, E. K.
CHIU, William
 - (74) J.M.H. Duyver lic.
 - (31) 201213593205
201113199309
 - (32) 23.08.2012
25.08.2011
 - (33) United States of America
United States of America
 - (47) 09.10.2019
-

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

- (21) 300863
 - (22) 01.03.2017
 - (11) 300863
 - (73) Warner-Lambert Company LLC
 - (74) ir. F.A. Geurts c.s.
 - (68) EP1470124
 - (54) 2-(pyridin-2-ylamino)-pyrido[2,3-d]pyrimidin-7-onen.
 - (94) 09.01.2028
 - (95) Palbociclib, desgewenst in de vorm van een farmaceutisch aanvaardbaar zout
 - (93) EU/1/16/1147 11.11.2016
 - (47) 03.08.2017
-

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) EP2828418	(00) 10/22
(51) C23C 24/10	09.03.2022
C23C 30/00	(11) EP3614809
(00) 10/22	(51) H05B 6/14
09.03.2022	B23P 11/02
(11) EP2959894	(00) 16/22
(51) A61K 31/137	20.04.2022
A61P 37/06	(11) EP3624625
A61K 31/397	(51) A42B 3/06
(00) 41/22	(00) 10/22
12.10.2022	09.03.2022
(11) EP3308774	(11) EP3650362
(51) A61K 47/38	(51) B65B 59/00
A61K 9/14	B65B 59/04
C09D 101/30	B65B 65/02
C08L 1/32	B65B 41/10
A61K 9/20	B65B 41/16
C08B 11/193	B65B 65/00
(00) 10/22	(00) 10/22
09.03.2022	09.03.2022
(11) EP3392920	
(51) H01L 33/62	
H01L 33/54	
H01L 33/48	
(00) 05.01.2023	
(00) 43/21	
27.10.2021	
(00) Restoration of rights	
(00) Seoul Semiconductor Co., Ltd.	
(11) EP3393967	
(51) B82Y 30/00	
C08J 5/18	
C09D 123/08	
C08L 23/08	
B32B 7/12	
B32B 27/00	
B32B 27/08	
B32B 27/18	
B32B 27/20	
B32B 27/22	
B32B 27/30	
B32B 27/32	
B32B 27/34	
B32B 27/36	
C08K 3/22	
C08L 51/06	
C08L 83/04	
(00) 10/22	
09.03.2022	
(11) EP3475609	
(51) F23C 3/00	
F23D 1/02	
F23D 99/00	
(00) 10/22	
09.03.2022	
(11) EP3553536	
(51) G01R 15/14	
G01R 19/25	

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) EP1539894	(51) F04D 19/04
(51) C08G 18/70	F04D 25/06
C08G 18/79	F04D 27/00
C09D 175/00	F04D 27/02
(11) EP2010220	(11) EP3415318
(51) A61K 31/737	(51) B41F 23/08
A61K 47/02	B41M 3/06
A61K 47/14	B41M 5/00
A61K 47/18	B44C 5/04
A61K 9/19	B44F 1/02
A61P 7/02	B44F 9/02
A61P 9/10	(00) 02/21
A61P 9/14	13.01.2021
A61P 13/10	(11) EP3431485
A61P 13/12	(51) C07H 21/04
A61P 17/02	C12N 15/09
A61P 19/02	(11) EP3590396
A61P 25/00	(51) A47J 31/52
A61P 31/18	(00) 16/21
A61K 9/00	21.04.2021
(11) EP2760276	(11) EP3846378
(51) A01G 31/00	(51) H04L 5/00
(00) 48/15	H04W 28/06
25.11.2015	H04W 48/08
(11) EP2817000	
(51) A61K 9/14	
A61K 9/16	
A61K 9/48	
A61K 9/50	
A61K 31/4439	
A61P 7/02	
(00) 21/22	
25.05.2022	
(11) EP2915526	
(51) A61K 9/16	
(11) EP3024669	
(51) B44C 5/04	
(11) EP3060351	
(51) B04B 1/14	
B04B 11/04	
(00) 01/21	
06.01.2021	
(11) EP3200779	
(51) C07D 401/12	
A61K 31/16	
A61K 31/47	
A61K 31/472	
(00) 33/22	
17.08.2022	
(00) 10.01.2023	
(00) Negative	
(11) EP3214923	
(51) A01J 5/00	
A01K 1/00	
A01K 1/12	
(11) EP3318764	

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

(11) EP2349098
(51) A61F 2/24

(11) EP2442702
(51) A47L 9/14
A47L 9/10

(11) EP2528737
(51) B32B 27/08
B32B 27/32
C08J 5/18

(11) EP2543653
(51) C04B 41/91
G04B 37/22

(11) EP2710355
(51) G01N 23/20

(11) EP2714710
(00) 09.01.2023
(51) A61K 31/565
A61P 5/30
C07J 1/00
C07J 13/00
C07J 51/00

(00) Established

(11) EP2753861
(51) F17C 7/04

(11) EP2764008
(00) 09.01.2023
(51) C07J 75/00
(00) Established

(11) EP2938291
(51) A61F 2/24
A61F 2/95

(11) EP3020292
(51) H05B 3/44
H05B 3/46
A24F 47/00

(11) EP3133166
(51) C12Q 1/68

(11) EP3781171
(00) 09.01.2023
(51) A61K 31/565
A61K 31/55
A61K 31/57
A61K 31/585
A61P 5/30
(00) Established

VRV

Verval of nietigverklaring.

Contains data concerning lapse or annulment.

(11) 1022310	(00) Patent Expired	(00) Patent Expired
(00) 06.01.2023	(11) EP1329474	(11) EP1468148
(00) Patent Expired	(00) 10.01.2023	(00) 08.01.2023
(11) 1022323	(00) Patent Expired	(00) Patent Expired
(00) 08.01.2023	(11) EP1329477	(11) EP1468169
(00) Patent Expired	(00) 10.01.2023	(00) 10.01.2023
(11) 1022326	(00) Patent Expired	(00) Patent Expired
(00) 08.01.2023	(11) EP1329718	(11) EP1470124
(00) Patent Expired	(00) 10.01.2023	(00) 10.01.2023
(11) 1022331	(00) Patent Expired	(00) Patent Expired
(00) 09.01.2023	(11) EP1329880	(11) EP1470228
(00) Patent Expired	(00) 08.01.2023	(00) 09.01.2023
(11) 1022332	(00) Patent Expired	(00) Patent Expired
(00) 09.01.2023	(11) EP1331797	(11) EP1471143
(00) Patent Expired	(00) 10.01.2023	(00) 08.01.2023
(11) 1022333	(00) Patent Expired	(00) Patent Expired
(00) 09.01.2023	(11) EP1338252	(11) EP1472756
(00) Patent Expired	(00) 08.01.2023	(00) 09.01.2023
(11) 1022358	(00) Patent Expired	(00) Patent Expired
(00) 11.01.2023	(11) EP1406453	(11) EP1473350
(00) Patent Expired	(00) 07.01.2023	(00) 08.01.2023
(11) 1026581	(00) Patent Expired	(00) Patent Expired
(00) 06.01.2023	(11) EP1439713	(11) EP1474128
(00) Patent Expired	(00) 08.01.2023	(00) 07.01.2023
(11) 1028855	(00) Patent Expired	(00) Patent Expired
(00) 09.01.2023	(11) EP1463426	(11) EP1474487
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(11) EP3831220	(11) EP3837652	(11) EP3844998
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(11) EP3831515	(11) EP3838036	(11) EP3845817
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(11) EP3832180	(11) EP3838818	(11) EP3846984
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(11) EP3832188	(11) EP3839115	(11) EP3847020
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(11) EP3832990	(11) EP3839210	(11) EP3849822
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(11) EP3833167	(11) EP3839421	(11) EP3850131
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(11) EP3833585	(11) EP3842180	(11) EP3854974
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(11) EP3857245	(11) EP3872062	(11) EP3884076
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(11) EP3860862	(11) EP3872764	(11) EP3885705
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(11) EP3862519	(11) EP3874133	(11) EP3888813
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(11) EP3862991	(11) EP3876295	(11) EP3889630
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(11) EP3908466	(11) EP3936096	
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(11) EP3926434	(11) EP3970201	
(00) 07.09.2022	(00) 07.09.2022	

VRB

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

CO

Ingeschreven overdrachten.

Contains data concerning registered assignments or change of owners.

(71) Jorg Kuijpers	E01C 11/16	(51) D03D 15/00
(73) Jorg Kuijpers	E02B 3/12	D04H 13/00
(11) 1040926	(00) Assignment	E02D 29/02
(00) 03.01.2023	(71) Howden Rothemühle GmbH	(00) Assignment
(51) A01K 1/035	(73) Howden Rothemühle GmbH	(71) ASAHI KASEI KABUSHIKI KAISHA
(00) Assignment	(11) EP2051033	(73) ASAHI KASEI KABUSHIKI KAISHA
(71) Howden Rothemühle GmbH	(00) 02.01.2023	(11) EP2465893
(73) Howden Rothemühle GmbH	(51) F28D 19/04	(00) 09.01.2023
(11) EP1681090	F28G 9/00	(51) B29C 67/20
(00) 02.01.2023	(00) Change of owner(s) name	B29K 25/00
(51) B01F 5/04	(71) Howden Rothemühle GmbH	B29K 71/00
B01F 5/06	(73) Howden Rothemühle GmbH	B29K 105/04
B01F 15/00	(11) EP2199724	C08J 9/00
(00) Change of owner(s) name	(00) 02.01.2023	C08J 9/12
(71) Hybrid Energy AS	(51) F28D 19/04	C08J 9/18
(73) Hybrid Energy AS	(00) Change of owner(s) name	C08J 9/232
(11) EP1774248	(71) MOSDORFER RAIL S.R.L	(00) Merge
(00) 04.01.2023	(73) MOSDORFER RAIL S.R.L	(71) TCL China Star Optoelectronics
(51) F28D 9/00	(11) EP2066523	Technology Co.,Ltd.
F28F 9/02	(00) 05.01.2023	(73) TCL China Star Optoelectronics
(00) Assignment	(51) B60M 1/26	Technology Co.,Ltd.
(71) ASAHI KASEI KABUSHIKI KAISHA	(00) Assignment	(11) EP2535746
(73) ASAHI KASEI KABUSHIKI KAISHA	(71) Howden Rothemühle GmbH	(00) 03.01.2023
(11) EP1842862	(73) Howden Rothemühle GmbH	(51) G02B 3/00
(00) 09.01.2023	(11) EP2177855	G02B 3/14
(51) C08F 4/02	(00) 02.01.2023	G02B 27/22
C08F 4/658	(51) F16J 15/32	G02F 1/1335
C08F 210/02	F28D 19/04	G02F 1/29
(00) Merge	(00) Change of owner(s) name	H04N 13/04
(71) Howden Rothemühle GmbH	(71) ASAHI KASEI KABUSHIKI KAISHA	(00) Assignment
(73) Howden Rothemühle GmbH	(73) ASAHI KASEI KABUSHIKI KAISHA	(71) TCL China Star Optoelectronics
(11) EP1604742	(11) EP2226121	Technology Co.,Ltd.
(00) 02.01.2023	(00) 09.01.2023	(73) TCL China Star Optoelectronics
(51) B03C 3/36	(51) B01J 23/00	Technology Co.,Ltd.
(00) Change of owner(s) name	B01J 23/28	(11) EP2407823
(71) Howden Rothemühle GmbH	B01J 23/30	(00) 03.01.2023
(73) Howden Rothemühle GmbH	B01J 23/34	(51) G02F 1/1343
(11) EP2023070	B01J 27/057	G02F 1/1362
(00) 02.01.2023	B01J 35/02	G02F 1/139
(51) F28D 19/04	B01J 37/00	G09G 3/36
(00) Change of owner(s) name	B01J 37/08	(00) Assignment
(71) ASAHI KASEI KABUSHIKI KAISHA	C07C 253/24	(71) ALGROB bv
(73) ASAHI KASEI KABUSHIKI KAISHA	C07C 255/08	(73) ALGROB bv
(11) EP1602405	(00) Merge	(11) EP2542728
(00) 09.01.2023	(71) Passavant-Geiger GmbH	(00) 02.01.2023
(51) B01J 23/00	(73) Passavant-Geiger GmbH	(51) B27N 3/00
B01J 23/887	(11) EP2321026	B29B 17/02
B01J 35/02	(00) 30.12.2022	C09K 17/52
B01J 35/10	(51) B01D 33/333	D21B 1/08
B01J 37/00	(00) Assignment	E04B 1/76
C07C 253/24	(71) ALGROB bv	E04B 1/80
C07C 255/08	(73) ALGROB bv	(00) Assignment
(00) Merge	(11) EP2363544	(71) AFITEX INTERNATIONAL
(71) AFITEX INTERNATIONAL	(00) 02.01.2023	(73) AFITEX INTERNATIONAL
(73) AFITEX INTERNATIONAL	(51) E04B 1/76	(11) EP2880211
(11) EP2079864	E04B 1/80	(00) 02.01.2023
(00) 02.01.2023	(00) Assignment	(51) D03D 13/00
(51) B32B 7/00	(71) AFITEX INTERNATIONAL	D03D 19/00
D04B 21/00	(73) AFITEX INTERNATIONAL	D04B 21/12
D04B 21/14	(11) EP2304089	F16L 1/11
	(00) 02.01.2023	D04H 3/045

D04H 3/115	A61P 35/02	(00) 30.12.2022
(00) Assignment	C07D 491/14	(51) B01D 33/333
(71) ASAHI KASEI KABUSHIKI KAISHA	(00) Assignment	B01D 33/41
(73) ASAHI KASEI KABUSHIKI KAISHA	(71) American Orthodontics Corporation	B01D 33/50
(11) EP2905275	(73) American Orthodontics Corporation	(00) Assignment
(00) 09.01.2023	(11) EP2895182	(71) TCL China Star Optoelectronics
(51) C07B 61/00	(00) 03.01.2023	Technology Co.,Ltd.
C07C 253/24	(51) A61K 8/46	(73) TCL China Star Optoelectronics
C07C 255/08	A61K 33/16	Technology Co.,Ltd.
(00) Merge	A61Q 11/00	(11) EP3136162
(71) STEALTH BIOTHERAPEUTICS INC.	A61K 8/97	(00) 03.01.2023
(73) STEALTH BIOTHERAPEUTICS INC.	(00) Assignment	(51) G02F 1/1337
(11) EP2830644	(71) Targovax Solutions AS	G02F 1/1343
(00) 09.01.2023	(73) Targovax Solutions AS	(00) Assignment
(51) A61K 38/07	(11) EP3079715	(71) Targovax Solutions AS
A61K 38/08	(00) 03.01.2023	(73) Targovax Solutions AS
(00) Assignment	(51) A61K 39/00	(11) EP3140320
(71) Stealth BioTherapeutics Corp	A61P 35/00	(00) 03.01.2023
(73) STEALTH BIOTHERAPEUTICS INC.	C07K 14/47	(51) A61K 31/7068
(11) EP2830644	C07K 14/82	A61K 39/00
(00) 09.01.2023	(00) Assignment	A61K 45/06
(51) A61K 38/07	(71) TCL China Star Optoelectronics	C07K 14/82
A61K 38/08	Technology Co.,Ltd.	A61K 35/17
(00) Change of Legal Entity	(73) TCL China Star Optoelectronics	(00) Assignment
(71) Jansen & de Bont B.V.	Technology Co.,Ltd.	(71) DELLNER BUBENZER GERMANY
(73) Jansen & de Bont B.V.	(11) EP2573617	GmbH
(11) 1042026	(00) 03.01.2023	(73) DELLNER BUBENZER GERMANY
(00) 04.01.2023	(51) G02F 1/1335	GmbH
(51) F21S 4/28	G02F 1/1343	(11) EP3003808
H05B 37/02	G02F 1/1362	(00) 06.01.2023
(00) Assignment	(00) Assignment	(51) B60T 17/02
(71) Ronald Ramaker	(71) TCL China Star Optoelectronics	B60T 13/22
(73) Ronald Ramaker	Technology Co.,Ltd.	F15B 7/00
(11) 2018287	(73) TCL China Star Optoelectronics	F15B 15/18
(00) 09.01.2023	Technology Co.,Ltd.	F16D 65/28
(51) A47K 10/32	(11) EP2338084	B60T 13/26
A47K 10/38	(00) 03.01.2023	B60T 13/66
(00) Assignment	(51) G02F 1/1337	B60T 13/68
(71) GenuStar s.r.o.	G02F 1/1343	B60T 15/02
(73) GenuStar s.r.o.	(00) Assignment	F16D 59/02
(11) EP3071218	(71) Jansen & de Bont B.V.	(00) Change of owner(s) name
(00) 04.01.2023	(73) Jansen & de Bont B.V.	(71) STEALTH BIOTHERAPEUTICS INC.
(51) A61K 38/43	(11) 1043348	(73) STEALTH BIOTHERAPEUTICS INC.
A61K 38/48	(00) 04.01.2023	(11) EP2961378
A61P 35/00	(51) H05B 37/02	(00) 09.01.2023
(00) Assignment	(00) Assignment	(51) A61K 38/06
(71) Jansen & de Bont B.V.	(71) ERIKS NV	A61P 9/04
(73) Jansen & de Bont B.V.	(73) ERIKS NV	A61P 11/00
(11) 1042526	(11) 1043013	(00) Assignment
(00) 04.01.2023	(00) 05.01.2023	(71) May Health US Inc.
(51) F21S 4/28	(51) F16J 15/06	(73) May Health US Inc.
H05B 37/02	F16L 19/05	(11) EP3057545
(00) Assignment	(00) Assignment	(00) 02.01.2023
(71) TCL China Star Optoelectronics	(71) JFD LIMITED	(51) A61B 17/34
Technology Co.,Ltd.	(73) JFD LIMITED	A61B 17/42
(73) TCL China Star Optoelectronics	(11) EP3137892	A61B 18/12
Technology Co.,Ltd.	(00) 04.01.2023	A61B 18/14
(11) EP3258311	(51) A61G 10/02	A61F 6/20
(00) 03.01.2023	A62B 7/00	(00) Change of owner(s) name
(51) G02F 1/1343	B63C 11/32	(71) STEALTH BIOTHERAPEUTICS INC.
G02F 1/1362	G01N 1/22	(73) STEALTH BIOTHERAPEUTICS INC.
(00) Assignment	G01N 7/00	(11) EP2961420
(71) Convalife (Shanghai) Co. Limited	G01N 33/00	(00) 09.01.2023
(73) Convalife (Shanghai) Co. Limited	(00) Assignment	(51) A61K 38/06
(11) EP3105233	(71) Passavant-Geiger GmbH	A61P 9/04
(00) 04.01.2023	(73) Passavant-Geiger GmbH	A61P 11/00
(51) A61K 31/519	(11) EP3541491	(00) Assignment

(71) Samsung Electronics Co., Ltd.	(51) E02F 9/20
(73) Samsung Electronics Co., Ltd.	B60R 1/00
(11) EP3162028	G08G 1/16
(00) 05.01.2023	G06T 5/00
(51) H04L 5/00	E02F 9/26
H04L 27/00	E02F 9/24
H04L 27/26	G08G 1/0962
(00) Assignment	G06K 9/00
(71) Techflux Inc.	G06K 9/36
(73) Samsung Electronics Co., Ltd.	(00) Assignment
(11) EP3162028	(71) François Besse
(00) 05.01.2023	(73) François Besse
(51) H04L 5/00	(11) EP3781993
H04L 27/00	(00) 04.01.2023
H04L 27/26	(51) G04B 15/14
(00) Assignment	G04B 15/08
(71) Samsung Electronics Co., Ltd.	G04B 15/06
(73) Samsung Electronics Co., Ltd.	(00) Assignment
(11) EP3162156	(71) Philip Morris Products S.A.
(00) 05.01.2023	(73) Philip Morris Products S.A.
(51) H04L 27/00	(11) EP3773494
H04W 74/08	(00) 02.01.2023
H04W 88/08	(51) A61K 9/00
(00) Assignment	A61K 31/465
(71) Samsung Electronics Co., Ltd.	A24B 13/00
(73) Samsung Electronics Co., Ltd.	A24B 15/10
(11) EP3162015	A24B 15/30
(00) 05.01.2023	A24B 15/38
(51) H04L 27/26	(00) Assignment
(00) Assignment	(71) François Besse
(71) DENTSU INC.	(73) François Besse
(73) DENTSU INC.	(11) EP3681595
(11) EP3430912	(00) 04.01.2023
(00) 02.01.2023	(51) A61N 1/378
(51) A23L 5/00	(00) Assignment
A47J 43/00	(71) François Besse
B29C 67/00	(73) François Besse
B33Y 50/00	(11) EP3781994
G01N 33/02	(00) 04.01.2023
A23P 30/10	(51) G04B 15/14
A23P 30/00	G04B 15/08
(00) Assignment	(00) Assignment
(71) DENTSU GROUP INC.	(71) Shangrao Jinko solar Technology
(73) DENTSU INC.	Development Co., LTD
(11) EP3430912	(73) Shangrao Jinko solar Technology
(00) 02.01.2023	Development Co., LTD
(51) A23L 5/00	(11) EP2787541
A47J 43/00	(00) 02.01.2023
B29C 67/00	(51) H01L 31/0747
B33Y 50/00	H01L 31/0216
G01N 33/02	(00) Assignment
A23P 30/10	(71) FOCAL POINT FIRES LIMITED
A23P 30/00	(73) FOCAL POINT FIRES LIMITED
(00) Change of owner(s) name	(11) EP3667171
(71) Datamars SA	(00) 04.01.2023
(73) Datamars SA	(51) F24C 7/00
(11) EP3639204	(00) Change of owner(s) name
(00) 02.01.2023	
(51) G06K 19/077	
G06K 19/02	
(00) Assignment	
(71) Continental Autonomous Mobility	
Germany GmbH	
(73) Continental Autonomous Mobility	
Germany GmbH	
(11) EP3162964	
(00) 05.01.2023	

TVH

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

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UP2

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

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UP3

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

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

UP4

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

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

UP5

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

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

UP6

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

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