



Rijksdienst voor Ondernemend
Nederland

Nederland

De industriële eigendom

Inleiding

Hoofdblad

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

Bijblad

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

Abonnementsprijzen per (kalender)jaar:

Hoofdblad en Bijblad: verschijnt gratis in elektronische vorm op de website van Octrooicentrum Nederland.

Bezoekadres: **Octrooicentrum Nederland**

Prinses Beatrixlaan 2

2595 AL Den Haag

Postadres

Postbus 10366

2501 HJ Den Haag

Telefoon: 088-0426656

Bankrekeningnummer:

Voor taksen en depotrekeningen:

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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.

Subscription rates per calendar year:

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

Visiting address: **Netherlands Patent Office**

Prinses Beatrixlaan 2

2595 AL Den Haag

Postadress

Post Office Box: 10366

2501 HJ Den Haag

Telephone: +31(0)88 0426656

Account:

Fees, deposit accounts:

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Rubriek NP1 Bevat gegevens betreffende octrooiaanvragen die zijn ingeschreven op grond van de Octrooiwet 1995.	8 Heading NP1 Contains data concerning Netherlands patent applications which have been entered in the patent register under the Patents Act 1995.	8
Rubriek NP2 Bevat gegevens betreffende ingeschreven en verleende octrooien op grond van de Octrooiwet 1995.	11 Heading NP2 Contains data concerning Netherlands patents which have been entered in the patent register under the Patents Act 1995.	11
Rubriek NP3 Bevat gegevens betreffende Nederlandse octrooien na gedeeltelijke afstand conform artikel 63 van de Octrooiwet 1995.	16 Heading NP3 Contains data concerning Netherlands patents after partial renunciation confirm Article 63 of the Patents Act 1995.	16
Rubriek EP1 Bevat gegevens betreffende vertaalde conclusies van Europese octrooiaanvragen.	17 Heading EP1 Contains data concerning translations of the conclusions of European patent applications.	17
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Rubriek EP4 Bevat gegevens betreffende voor Nederland verleende gewijzigde Europese octrooien.	425 Heading EP4 Contains data concerning European patents granted in amended form for the Netherlands.	425
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Europese octrooien waarvoor een gewijzigde vertaling is ingediend.	The Netherlands in which an amended translation was filed.	
Rubriek SPC Bevat gegevens betreffende ingeschreven en verleende certificaten	430Heading SPC Contains data concerning applications for- or granted Supplementary Protection Certificates.	430
Rubriek VB1 Bevat gegevens betreffende rechten waarvoor een verzoek of bezwaarschrift is ingediend conform de Octrooiwet 1995.	431Heading VB1 Contains data concerning requests and notices of opposition under the General administrative law.	431
Rubriek VB2 Bevat gegevens betreffende rechten waarin een beslissing is genomen of waarvoor een nieuwheidsrapport is uitgegaan op een verzoek- of bezwaarschrift conform de Octrooiwet 1995.	432Heading VB2 Contains data concerning requests and notices of opposition under the General administrative law in respect of which a decision has been taken or in respect for which a report has been made.	432
Rubriek MED Bevat gegevens betreffende overige mededelingen.	434Heading MED Contains data concerning other communications.	434
Rubriek VRV Bevat gegevens betreffende verval of nietigverklaring.	435Heading VRV Contains data concerning lapse or annulment.	435
Rubriek VRB Bevat gegevens betreffende verbeteringen op eerdere publicaties.	453Heading VRB Contains data concerning corrections on earlier publications.	453
Rubriek CO Bevat gegevens betreffende wijzigingen in het octrooiregister.	454Heading CO Contains data concerning changes in the Netherland patent register.	454
Rubriek TVH Bevat gegevens betreffende topografieën van halfgeleiderproducten.	458Heading TVH Contains data concerning depots of original topographies of semi-conductor products.	458

Rubriek UP1 Bevat gegevens over Europese octrooien met geregistreerde eenheidswerking.	459Heading UP1 Contains data concerning European patents with registered Unitary Effect.	459
Rubriek UP2 Bevat gegevens over Europese octrooien met geregistreerd verzoek ex. artikel 52a (herstel recht op validatie).	460Heading UP2 Contains data concerning European patents with registered request ex article 52a (restoration of validation right).	460
Rubriek UP3 Bevat gegevens over Europese octrooien met geaccepteerd verzoek ex. artikel 52a (herstel recht op validatie) en complete validatie.	461Heading UP3 Contains data concerning European patents with accepted ex article 52a (restoration of validation right) and validation completed.	461
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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

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

(51) A01G 24/20 A01G 24/12 A01G 22/63 C05F 11/08	(72) Gijs Koops Robin Koops Matthijs Jan Christiaan Koebrugge	DOMESTIC WASTEWATER WITH MICROALGAE CULTIVATION
(21) 2034451 (22) 29.03.2023	(41) 17.04.2023 (31) 2029324 (32) 06.10.2021 (33) Netherlands	(71) Shenyang Aerospace University (74) ir. M.B. Plaggenborg (72) Rundong Li Tianqi Kong Tianhua Yang Wanli Zhang Wanli Xing
(54) CULTURE MATERIAL FOR IMPROVING POLYSACCHARIDE CONTENT OF DENDROBIUM CATENATUM AND APPLICATION THEREOF	(51) A61G 17/08 (21) 2033229 (22) 04.10.2022	(31) 202111176188.1 (32) 09.10.2021 (33) China
(71) Hangzhou Vocational & Technical College	(54) SYSTEEM VOOR HET BEWAREN VAN ASSEN	(51) B01L 3/00 (21) 2029317 (22) 04.10.2021
(74) drs. C.M.A. Quintelier (72) Yumeng Gan Mingyu Zhi Lian Zhao Leqin Ke Ping Tang Da He Hanxue Yao Hanmei Wei	(71) PrintPlace BV (74) S. de Koning (72) Wesly Richard Herman Jacobs (41) 17.04.2023 (31) 2021/0075 (32) 06.10.2021 (33) Belgium	(54) Microfluidic device and method for filling a fluid chamber of such a device (71) Micronit Holding B.V. (74) dr. ir. G.J.C. Verdijck c.s. (72) Marko Theodoor Blom Alvaro Jose Conde Ronny van 't Oever
(51) A23L 3/365 (21) 2029322 (22) 05.10.2021	(54) Methods and device for filling one or more syringes	(41) 13.04.2023 (51) B62H 1/02 (21) 2031281 (22) 15.03.2022
(54) COMBINED EFFICIENT DEFROSTING METHOD	(71) SJJ Solutions B.V. (74) ir. H.A. Witmans c.s. (72) Sander Schootstra Joost Schootstra Jasper Schootstra	(54) Bicycle, and kick stand for such a bicycle (71) VANMOOF B.V. (74) ir. H.Th. van den Heuvel c.s. (72) Jean-Paul Niellissen
(71) ZHEJIANG UNIVERSITY NINGBO ACADEMY OF AGRICULTURAL SCIENCES	(41) 17.04.2023	(71) Ties Jonan Midas Carlier Job Hendrik Stehmann
(74) ir. W.J.J.M. Kempes (72) Jiangang Ling Yan Cui Donghong Liu Tian Ding Xinyu Liao Xiaoting Xuan Xudong Lin	(51) A61P 35/00 A61K 51/12 A61K 41/00 (21) 2029314 (22) 04.10.2021	(41) 17.04.2023 (31) 2029352 (32) 07.10.2021 (33) Netherlands
(41) 14.04.2023	(54) Coated nanoparticle material for thermo- brachytherapy	(51) B62J 13/04 B62K 19/44 B62M 9/16 (21) 2031299 (22) 15.03.2022
(51) A47B 96/00 (21) 1044178 (22) 05.10.2021	(71) Technische Universiteit Delft Erasmus Universitair Medisch Centrum Rotterdam (Erasmus MC)	(54) Kettingafschermingsamenstel voor een rijwiel. (71) VANMOOF B.V. (74) ir. H.Th. van den Heuvel c.s. (72) Ties Jonan Midas Carlier Job Hendrik Stehmann Jean-Paul Niellissen
(54) MEUBELPANEEL MET MAATREGELLEN TER VERHOOGING VAN DE WEERSTAND TEGEN DOORBUIGING	(74) dr. A. Ellens c.s. (72) Kristina Djanashvili Jean-Philippe Pignol Gerard Cornelis van Rhooon Antonia Georgieva Denkova Alexandra Maier Rogier van Oossanen	(41) 13.04.2023
(71) CABS B.V. (74) dr. A. Ellens c.s. (72) Teunis Tel Lucien Postema	(41) 13.04.2023	(41) 17.04.2023 (31) 2029351 (32) 07.10.2021 (33) Netherlands
(41) 14.04.2023	(51) B01D 53/48 C02F 11/04 C12N 1/12 C12P 7/6463	(51) B62K 19/40 B62J 6/04 B62J 11/19 B62K 3/02 B62K 19/06
(51) A61B 5/00 H04B 1/034 (21) 2029581 (22) 02.11.2021	(21) 2031876 (22) 16.05.2022	
(54) TRANSMITTER FOR TRANSMITTING SENSOR DATA	(54) METHOD FOR CO-PRODUCING METHANE AND BIO-OIL BY COUPLING ANAEROBIC DIGESTION OF	
(71) INREDA DIABETIC B.V.		

B62K 25/04	(74) dr. ir. G.J.C. Verdijck c.s.	(71) Zhejiang Tongji Vocational College of Science and Technology
(21) 2031297	(72) Rientz Willem Bol	(74) drs. C.M.A. Quintelier
(22) 15.03.2022	(41) 17.04.2023	(72) Yongqi Jin
(54) Rijwielbuiselement	(51) C11B 3/04	Fan Jiang
(71) VANMOOF B.V.	(21) 2033281	Liandong Sun
(74) ir. H.Th. van den Heuvel c.s.	(22) 11.10.2022	Xincheng Sun
(72) Job Hendrik Stehmann	(54) METHOD FOR PURIFYING FATTY ACID METHYL ESTERS	(51) E04F 15/10
Ties Jonan Midas Carlier	(71) SUZHOU FENGBEI BIOTECH CO., LTD.	B05D 3/06
Jean-Paul Niellissen	(74) ir. A.R. Aalbers	B05D 7/26
(41) 17.04.2023	(72) Peng Ren	B32B 15/082
(31) 2029349	Yin Li	B32B 27/08
(32) 07.10.2021	Yuan Ping	C08J 7/04
(33) Netherlands	Yiyong Wang	B29C 59/04
(51) B62K 21/12	Min Ma	C08J 7/12
B62M 6/45	(31) 202111179307.9	C09D 4/00
B62K 23/02	(32) 11.10.2021	(21) 2031580
B62J 50/22	(33) China	(22) 14.04.2022
B62J 6/24	(51) C12N 1/20	(54) Decorative panel
B62K 21/26	A61K 35/742	(71) CHAMPION LINK INTERNATIONAL CORPORATION
B62J 50/21	A61P 35/00	(74) ir. H.Th. van den Heuvel c.s.
(21) 2031282	A61K 31/444	(72) Thomas Luc Martine Baert
(22) 15.03.2022	(21) 2032803	Tom van Poyer
(54) Bicycle, in particular an electric bicycle	(22) 18.08.2022	Sven Boon
(71) VANMOOF B.V.	(54) USE OF CLOSTRIDIUM GHONII COMBINED WITH TUMOR ANGIOGENESIS INHIBITOR	(31) 2029345
(74) ir. H.Th. van den Heuvel c.s.	(71) Shandong Xinchuang Biotechnology Co., Ltd.	(32) 07.10.2021
(72) Ties Jonan Midas Carlier	(74) ir. M.B. Plaggenborg	(33) Netherlands
Job Hendrik Stehmann	(72) Yong Wang	(51) F02M 26/02
Jean-Paul Niellissen	Yuanyuan Liu	F02B 37/24
(41) 17.04.2023	Shaopeng Wang	F02B 39/10
(31) 2029353	Hong Zhu	F02B 47/08
(32) 07.10.2021	Dan Wang	F02D 23/00
(33) Netherlands	Lichao Xing	F02D 41/00
(51) B63B 35/38	Xinglu Xu	F02B 37/12
(21) 2029325	Xiaonan Li	(21) 2029326
(22) 06.10.2021	Hui Niu	(22) 06.10.2021
(54) MODULAIR WERKVLOT, EEN SYSTEEM EN WERKWIJZE DAARVOOR	Ting Han	(54) A powertrain for a truck
(71) Herm Sandstra	Shuangshuang Guo	(71) DAF Trucks N.V.
(74) dr. ir. G.J.C. Verdijck c.s.	Dongxia Yang	(74) ir. H.A. Witmans c.s.
(72) Herm Sandstra	Shengbiao Jiang	(72) Abraham Wessel Hakstege
(41) 17.04.2023	Yuxia Gao	(41) 17.04.2023
(51) B82Y 20/00	Shili Shao	(51) F16J 15/08
H04B 10/70	Jiahui Zheng	F16J 15/16
(21) 2029318	Rong Zhang	E21B 23/06
(22) 04.10.2021	(31) 202111177878 .9	E21B 33/12
(54) METHOD AND SYSTEM FOR OPERATING A QUANTUM NETWORK NODE	(32) 09.10.2021	E21B 33/126
(71) Technische Universiteit Delft	(33) China	E21B 33/128
Universitat Innsbruck	(51) C12N 15/11	E21B 33/129
(74) ir. A.R. Aalbers	C12Q 1/68	(21) 2032931
(72) Conor Eliot Bradley	(21) 2029315	(22) 01.09.2022
Ronald Hanson	(22) 04.10.2021	(54) EXPANDABLE METAL SEALING/ ANCHORING TOOL
Simon Baier	(54) METHOD FOR IDENTIFYING CYNOMORIUM SONGARICUM RUPR	(71) Halliburton Energy Services, Inc.
Tim Hugo Taminiau	(71) CHINESE RESEARCH ACADEMY OF ENVIRONMENTAL SCIENCES	(74) dr. ir. F.M. van Bouwelen
(41) 13.04.2023	(74) ir. W.J.J.M. Kempes	(72) Shanu Thottungal Eldho
(51) C08L 63/00	(72) Xiao Guan	Brandon T. Least
E04F 15/12	Mengyun Ren	Michael Linley Fripp
C09D 163/00	Junsheng Li	(41) 14.04.2023
(21) 2029355	Zhiping Zhao	(31) 17/493,944
(22) 08.10.2021	(51) D01H 13/04	PCT/US2021/053478
(54) COMPOSITIE VOOR EEN CHEMISCH EN MECHANISCH BESTENDIGE VLOER	(21) 2034470	(32) 05.10.2021
(71) BOLIDT MAATSCHAPPIJ TOT EXPLOITATIE VAN KUNSTSTOFFEN EN BOUWWERKEN B.V.	(22) 30.03.2023	05.10.2021
	(54) YARN GUIDING DEVICE FOR TEXTILE MANUFACTURING MACHINE	(33) United States of America
		United States of America
		(51) F24D 13/02
		(21) 2032299
		(22) 28.06.2022

(54) Werkwijze voor het aanbrengen van een elektrische verwarmingsfolie, alsmede gebouw voorzien van de verwarmingsfolie	(51) H01J 61/00 (21) 2033016 (22) 13.09.2022	H03F 3/213 H01L 23/66 H03F 3/195 H03F 1/56 H01L 23/64
(71) Calor Investments B.V.	(54) LIGHT EMITTING SEALED BODY AND LIGHT SOURCE DEVICE	
(74) ir. G.J.M. Verhees	(71) HAMAMATSU PHOTONICS K.K.	(21) 2029316
(72) Nick van Kruijsdijk	(74) dr. ir. G.J.C. Verdijck c.s.	(22) 04.10.2021
Raymond Edward Mario van der Weijden Marcus Gerardus Antonius van Kruijsdijk	(72) Akio Suzuki Shinichi Ohba Akinori Asai Tomoya Nakazawa Toru Fujita Taiga Morimoto	(54) Power amplifier and Doherty amplifier comprising the same (71) Ampleon Netherlands B.V. (74) dr. ir. G.J.C. Verdijck c.s. (72) Yi Zhu Zhi Geng
(31) 2029372 (32) 08.10.2021 (33) Netherlands	(31) 2021-163282 (32) 04.10.2021 (33) Japan	(41) 13.04.2023
(51) G01B 11/24 G01B 9/02 G01N 21/95	(51) H01J 61/00 (21) 2033018 (22) 13.09.2022	
(21) 2033224 (22) 04.10.2022	(54) LIGHT EMITTING SEALED BODY AND LIGHT SOURCE DEVICE	
(54) Method and device for characterizing the surface shape of an optical element	(71) HAMAMATSU PHOTONICS K.K.	
(71) Carl Zeiss SMT GmbH	(74) dr. ir. G.J.C. Verdijck c.s.	
(74) ir. H.A. Witmans c.s.	(72) Akio Suzuki Tomoya Nakazawa Toru Fujita Akinori Asai Taiga Morimoto Shinichi Ohba	
(72) Regina Kruse	(31) 2021-163289 (32) 04.10.2021 (33) Japan	
(31) 102021211172.6 (32) 04.10.2021 (33) Germany	(51) H01J 61/00 C23C 16/40 (21) 2033019 (22) 13.09.2022	
(51) G06F 3/0354 G06F 3/01 G06F 3/04883	(54) LIGHT EMITTING SEALED BODY AND LIGHT SOURCE DEVICE	
(21) 2029321 (22) 05.10.2021	(71) HAMAMATSU PHOTONICS K.K.	
(54) TOUCH-SENSITIVE INPUT REGION FOR ELECTRONIC STYLUS	(74) dr. ir. G.J.C. Verdijck c.s.	
(71) Microsoft Technology Licensing, LLC	(72) Akio Suzuki Toru Fujita Shinichi Ohba Akinori Asai Tomoya Nakazawa Taiga Morimoto	
(74) ir. J.C. Volmer c.s.	(31) 2021-163288 (32) 04.10.2021 (33) Japan	
(72) Uri Ron Shoham Dekel Assaf Bar-Ness Vadim Mishalov	(51) H01J 61/26 (21) 2033020 (22) 13.09.2022	
(41) 14.04.2023	(54) LIGHT EMITTING SEALED BODY, LIGHT SOURCE DEVICE, AND METHOD FOR DRIVING LIGHT EMITTING SEALED BODY	
(51) G06K 7/10 (21) 2033269 (22) 10.10.2022	(71) HAMAMATSU PHOTONICS K.K.	
(54) Miniature long range imaging engine with auto-focus, auto-zoom, and auto-illumination system	(74) dr. ir. G.J.C. Verdijck c.s.	
(71) Zebra Technologies Corporation	(72) Akio Suzuki Toru Fujita Shinichi Ohba Akinori Asai Tomoya Nakazawa Taiga Morimoto	
(74) ir. H.A. Witmans c.s.	(31) 2021-163287 (32) 04.10.2021 (33) Japan	
(72) Christopher W. Brock David Tsi Shi Carl D. Wittenberg David P. Goren Vladimir Gurevich	(51) H03F 1/02	
(31) 17/498,421 (32) 11.10.2021 (33) United States of America		
(51) H01H 31/02 H01H 33/66		
(21) 2033248 (22) 06.10.2022		
(54) A breaker switch-disconnector-earthing switch assembly		
(71) ZPUE S.A.		
(74) ir. W.J.J.M. Kempes		
(72) Boguslaw Wypychewicz		
(31) W.130317 (32) 07.10.2021 (33) Poland		

NP2

**Ingeschreven en verleende octrooien op grond van de Octrooiwet 1995.
Contains data concerning Netherlands patents which have been entered in the patent
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(51) A01K 39/01	NINGBO ACADEMY OF AGRICULTURAL SCIENCES	(47) 17.04.2023
(11) 2029027	(72) Jiangang Ling	(22) 02.11.2021
(47) 17.04.2023	Yan Cui	(54) TRANSMITTER FOR TRANSMITTING SENSOR DATA
(22) 24.08.2021	Donghong Liu	(73) INREDA DIABETIC B.V.
(54) PROTECTED HANDLE FOR COVER	Tian Ding	(72) Gijs Koops
(73) Paul Cote	Xinyu Liao	Robin Koops
(72) Paul Cote	Xiaoting Xuan	Matthijs Jan Christiaan Koebrugge
(74) ir. A.R. Aalbers	Xudong Lin	(31) 2029324
(31) 63/071,776	(74) ir. W.J.J.M. Kempes	(32) 06.10.2021
(32) 28.08.2020	(51) A23L 5/41	(33) Netherlands
(33) United States of America	A23L 13/70	(51) A61G 17/08
(51) A21D 2/36	(11) 2027723	(11) 2033229
A23L 33/21	(47) 13.04.2023	(47) 17.04.2023
A23L 33/10	(22) 08.03.2021	(22) 04.10.2022
A23L 33/15	(54) COLOR PROTECTION METHOD FOR PREPARED PORK CHOPS	(54) SYSTEEM VOOR HET BEWAREN VAN ASSEN
A23L 7/109	(73) HEFEI UNIVERSITY OF TECHNOLOGY	(73) PrintPlace BV
(11) 2031056	Nanjing Agricultural University	(72) Wesly Richard Herman Jacobs
(47) 14.04.2023	Jiangsu Yurun Meat Food Co., Ltd.	(74) S. de Koning
(22) 23.02.2022	(72) Baocai Xu	(31) 2021/0075
(54) LOW-SUGAR AND HIGH-FIBER NOODLES CONTAINING FLAMMULINA VELUTIPES, PREPARATION METHOD THEREOF AND USE THEREOF FOR REGULATING INTESTINAL FLORA	Jie Zhang	(32) 06.10.2021
(73) Charoen Liupattana	Qi Li	(33) Belgium
(72) Charoen Liupattana	Chao li	(51) A61M 5/36
Chi Fai Chau	Conggui Chen	(11) 2029329
Chia Wei Li	(74) ir. F.A. Geurts c.s.	(47) 17.04.2023
(74) G.R. Sach	(31) 202010176672.3	(22) 06.10.2021
(51) A23K 10/30	(32) 13.03.2020	(54) Methods and device for filling one or more syringes
A23K 10/12	(33) China	(73) SJJ Solutions B.V.
A23K 10/18	(51) A47B 96/00	(72) Sander Schootstra
A23K 10/37	(11) 1044178	Joost Schootstra
A23K 20/163	(47) 14.04.2023	Jasper Schootstra
A23K 50/10	(22) 05.10.2021	(74) ir. H.A. Witmans c.s.
A23K 50/30	(54) MEUBELPANEEL MET MAATREGELEN TER VERHOOGING VAN DE WEERSTAND TEGEN DOORBUIGING	(51) A61P 35/00
A23K 50/75	(73) CABS B.V.	A61K 51/12
(11) 2032906	(72) Teunis Tel	A61K 41/00
(47) 17.04.2023	Lucien Postema	(11) 2029314
(22) 30.08.2022	(74) dr. A. Ellens c.s.	(47) 13.04.2023
(54) FERMENTATION METHOD OF CHINESE HERBAL MEDICINE ANTI-STRESS FEED ADDITIVE FOR LIVESTOCK AND POULTRY	(51) A47B 96/16	(22) 04.10.2021
(73) Yunnan Agricultural University	A47F 3/06	(54) Coated nanoparticle material for thermo-brachytherapy
ANHUI AGRICULTURAL UNIVERSITY	E06B 3/50	(73) Technische Universiteit Delft
(72) Cheng Zhang	(11) 2032496	Erasmus Universitair Medisch Centrum Rotterdam (Erasmus MC)
Hong Hu	(47) 17.04.2023	(72) Kristina Djanashvili
XingYong Chen	(22) 14.07.2022	Jean-Philippe Pignol
ZhaoYu Geng	(54) IDEOLOGICAL AND POLITICAL MATERIAL SHOWCASE	Gerard Cornelis van Rhoon
XiaoLing Ding	(73) BAICHENG NORMAL UNIVERSITY	Antonia Georgieva Denkova
(74) ir. M.B. Plaggenborg	(72) Guandi Wang	Alexandra Maier
(51) A23L 3/365	Zhe Luo	Rogier van Oossanen
(11) 2029322	Danzuoni Chen	(74) dr. A. Ellens c.s.
(47) 14.04.2023	Xi Wang	(51) B01L 3/00
(22) 05.10.2021	(74) ir. M.B. Plaggenborg	(11) 2029317
(54) COMBINED EFFICIENT DEFROSTING METHOD	(31) 202122033667.X	(47) 13.04.2023
(73) ZHEJIANG UNIVERSITY	(32) 26.08.2021	(22) 04.10.2021
	(33) China	(54) Microfluidic device and method for filling a fluid chamber of such a device
	(51) A61B 5/00	(73) Micronit Holding B.V.
	H04B 1/034	(72) Marko Theodoor Blom
	(11) 2029581	

Alvaro Jose Conde Ronny van 't Oever (74) dr. ir. G.J.C. Verdijck c.s.	(54) METHODS OF PREPARING A COMPOSITE HAVING ELASTOMER AND FILLER	(32) 07.10.2021 (33) Netherlands
(51) B05B 12/08	(73) Beyond Lotus LLC	(51) B62K 19/40
(11) 2029553	(72) Martin C. Green	B62J 6/04
(47) 13.04.2023	Carlos Andres Echavarria Yepes	B62J 11/19
(22) 29.10.2021	(74) ir. H.A. Witmans c.s.	B62K 3/02
(54) CONFORMAL COATING PROCESS WITH THICKNESS CONTROL	(31) 63/240.414	B62K 19/06
(73) PRECISION VALVE & AUTOMATION, INC.	(32) 03.09.2021	B62K 25/04
(72) Jonathan Neal Urquhart	(33) United States of America	(11) 2031297
Jason Schoen	(51) B62B 1/20	(47) 17.04.2023
Frank Hart	B62B 5/00	(22) 15.03.2022
(74) ir. H.Th. van den Heuvel c.s.	(11) 2032737	(54) Rijwielbuselement
(31) 17/497,318	(47) 12.04.2023	(73) VANMOOF B.V.
63/120,428	(22) 11.08.2022	(72) Job Hendrik Stehmann
(32) 08.10.2021	(54) CIVIL ENGINEER MATERIAL CONVEYING DEVICE	Ties Jonan Midas Carlier
02.12.2020	(73) ZHENGZHOU UNIVERSITY OF AERONAUTICS	Jean-Paul Niellissen
(33) United States of America	(73) PINGDINGSHAN HIGHWAY TRANSPORTATION INSTITUTE OF	(74) ir. H.Th. van den Heuvel c.s.
United States of America	SURVEY AND DESIGN	(31) 2029349
(51) B25J 9/16	(72) Ding Wang	(32) 07.10.2021
B23K 26/044	Wentong Zhao	(33) Netherlands
(11) 2029506	Haiwei Zhang	(51) B62K 21/12
(47) 17.04.2023	Xiumin Cui	B62M 6/45
(22) 25.10.2021	Juanfang Li	B62K 23/02
(54) ROBOT WELDING SEAM TRACKING METHOD FOR ALL-POSITION WELDING OF LARGE-CURVATURE PIPE FITTING	(74) ir. M.B. Plaggenborg	B62J 50/22
(73) HARBIN INSTITUTE OF TECHNOLOGY	(51) B62H 1/02	B62J 6/24
(72) Lijun Zhao	(11) 2031281	B62K 21/26
Ruifeng Li	(47) 17.04.2023	B62J 50/21
Ke Wang	(22) 15.03.2022	(11) 2031282
Zhiheng Liu	(54) Bicycle, and kick stand for such a bicycle	(47) 17.04.2023
Lianzheng Ge	(73) VANMOOF B.V.	(22) 15.03.2022
(74) ir. M.B. Plaggenborg	(72) Jean-Paul Niellissen	(54) Bicycle, in particular an electric bicycle
(31) 202011641612.0	Ties Jonan Midas Carlier	(73) VANMOOF B.V.
(32) 31.12.2020	Job Hendrik Stehmann	(72) Ties Jonan Midas Carlier
(33) China	(74) ir. H.Th. van den Heuvel c.s.	Job Hendrik Stehmann
(51) B25J 15/00	(31) 2029352	Jean-Paul Niellissen
B25J 19/00	(32) 07.10.2021	(74) ir. H.Th. van den Heuvel c.s.
B25J 13/08	(33) Netherlands	(31) 2029353
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(11) 2032998	(11) 2033110	(51) B63B 35/38
(47) 17.04.2023	(47) 13.04.2023	(11) 2029325
(22) 09.09.2022	(22) 22.09.2022	(47) 17.04.2023
(54) INTELLIGENT BIONIC MANIPULATOR STRUCTURE WORKING IN HIGH-RISK ENVIRONMENT	(54) ADDITIONAL SEAT STRUCTURE FOR ELECTRIC BICYCLES	(22) 06.10.2021
(73) Harbin University of Science and Technology	(73) Cesar Augusto De Mello Rippel	(54) MODULAIR WERKVLOT, EEN SYSTEEM EN WERKWIJZE DAARVOOR
(72) Siyuan Liu	(72) Cesar Augusto De Mello Rippel	(73) Herm Sandstra
Yong Qin	(74) dr. R.C. van Duijvenbode c.s.	(72) Herm Sandstra
(74) ir. M.B. Plaggenborg	(31) 1020210189533	(74) dr. ir. G.J.C. Verdijck c.s.
(31) 202122811053.X	(32) 23.09.2021	(51) B65G 57/112
(32) 17.11.2021	(33) Brazil	B65G 41/00
(33) China	(51) B62J 13/04	(11) 2032896
(51) B29B 7/00	B62K 19/44	(47) 14.04.2023
B29B 7/18	B62M 9/16	(22) 30.08.2022
B29B 7/28	(11) 2031299	(54) AUTOMATIC CIGARETTE BOX UNLOADING DEVICE
B29B 7/74	(47) 17.04.2023	(73) Shandong Binzhou Tobacco Co., Ltd.
B29B 7/82	(22) 15.03.2022	(72) Dengjian Zhang
(11) 2032946	(54) Kettingafschermingsamenstel voor een rijwiel.	Xianchun Dong
(47) 13.04.2023	(73) VANMOOF B.V.	Lingling Luo
(22) 02.09.2022	(72) Ties Jonan Midas Carlier	(74) ir. W.J.J.M. Kempes
	Job Hendrik Stehmann	(31) 202111046936.4
	Jean-Paul Niellissen	(32) 07.09.2021
	(74) ir. H.Th. van den Heuvel c.s.	(33) China
	(31) 2029351	(51) B82Y 20/00
		H04B 10/70
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(47) 13.04.2023	E04F 15/12	(51) C12N 15/11
(22) 04.10.2021	C09D 163/00	C12Q 1/68
(54) METHOD AND SYSTEM FOR OPERATING A QUANTUM NETWORK NODE	(11) 2029355	(11) 2029315
(73) Technische Universiteit Delft	(47) 17.04.2023	(47) 13.04.2023
Universität Innsbruck	(22) 08.10.2021	(22) 04.10.2021
(72) Conor Eliot Bradley	(54) COMPOSITIE VOOR EEN CHEMISCH EN MECHANISCH BESTENDIGE VLOER	(54) METHOD FOR IDENTIFYING CYNOMORIUM SONGARICUM RUPR
Ronald Hanson	(73) BOLIDT MAATSCHAPPIJ TOT EXPLOITATIE VAN KUNSTSTOFFEN EN BOUWWERKEN B.V.	(73) CHINESE RESEARCH ACADEMY OF ENVIRONMENTAL SCIENCES
Simon Baier	(72) Rientz Willem Bol	(72) Xiao Guan
Tim Hugo Taminiau	(74) dr. ir. G.J.C. Verdijck c.s.	Mengyun Ren
(74) ir. A.R. Aalbers	(72) Rientz Willem Bol	Junsheng Li
(51) C04B 38/00	(74) dr. ir. G.J.C. Verdijck c.s.	Zhiping Zhao
F27B 5/08	(51) C09K 8/42	(74) ir. W.J.J.M. Kempes
F27D 11/12	E21B 33/13	(51) C12N 15/113
B32B 18/00	E21B 47/005	A01K 67/027
F27D 1/00	F24T 10/13	C12N 15/85
F27D 5/00	(11) 2033113	(11) 2026798
F27D 99/00	(47) 13.04.2023	(47) 17.04.2023
(11) 2032389	(22) 22.09.2022	(22) 30.10.2020
(47) 17.04.2023	(54) Afdichtmateriaal en werkwijze voor het afdichten van een in de grond aanwezig boorgat	(54) COMBINATION OF ANTISENSE RNA SEQUENCES AND USE IN THE PRODUCTION OF ABORTIVE TILAPIA
(22) 06.07.2022	(73) RK Verwaltungs GmbH	(73) Freshwater Fisheries Research Center of Chinese Academy of Fishery Sciences
(54) ENERGY-SAVING THERMAL INSULATION DEVICE FOR MICROWAVE KILN AND METHOD FOR PREPARING SAME	(72) Grietinus Gerard Pama	(72) Jun Qiang
(73) ZHENGZHOU UNIVERSITY	(74) ir. G.J.M. Verhees	Zheming Cao
(72) Yongqiang Chen	(31) 2029280	Pao Xu
Rui Zhang	(32) 29.09.2021	Jie He
Zhiyu Min	(33) Netherlands	Kai Liu
Hongxia Li	(51) C09K 8/42	Gangchun Xu
Mingliang Li	E21B 33/13	Hongxia Li
Bingbing Fan	E21B 47/005	Yifan Tao
Hailong Wang	F24T 10/13	Haojun Zhu
Yabo Zhou	(11) 2033114	(74) ir. F.A. Geurts c.s.
Bo Song	(47) 13.04.2023	(31) 202010920690.8
Hailiang Wang	(22) 22.09.2022	(32) 04.09.2020
Limeng Song	(54) Afdichtmateriaal en werkwijze voor het afdichten van een in de grond aanwezig boorgat	(33) China
(74) dr. R.C. van Duijvenbode c.s.	(73) RK Verwaltungs GmbH	(51) C12Q 1/6827
(31) 2021107862485	(72) Grietinus Gerard Pama	(11) 1044132
(32) 12.07.2021	(74) ir. G.J.M. Verhees	(47) 19.04.2023
(33) China	(31) 2029280	(22) 25.08.2021
(51) C07C 251/24	(32) 29.09.2021	(54) KIT AND METHOD FOR ABO BLOOD GROUP GENOTYPING BASED ON HIGH-THROUGHPUT SEQUENCING
C09K 11/06	(33) Netherlands	(73) Shenzhen Blood Center (Shenzhen Institute of Transfusion Medicine)
G01N 21/64	(51) C12N 1/04	(72) Shuang Liang
(11) 2030168	C12N 1/20	Yunping Xu
(47) 13.04.2023	(11) 2032464	Wenxu Hong
(22) 16.12.2021	(47) 14.04.2023	Yuqing Su
(54) MOLECULAR SENSOR WITH FOUR-CONVERSION DETECTION SIGNAL FOR ACID-BASE ENVIRONMENT AND APPLICATION THEREOF	(22) 12.07.2022	Yanlian Liang
(73) DEZHOU UNIVERSITY	(54) ENTEROCOCCUS FAECIUM AND USE THEREOF	Fan Wu
(72) Mingjie Leng	(73) Liaocheng University	Long Peng
Zhigang Wang	(72) Rong Huang	(74) drs. O. Griebing
Yuting Chen	Yan Li	(31) 202010899592.0
Shubo Shang	Likang Zuo	(32) 31.08.2020
Yulan Song	Qingshan Ma	(33) China
Yunzhen Huo	Changfa Wang	(51) E04D 13/068
Bingwei Xin	(74) ir. M.B. Plaggenborg	E04D 13/072
Aizhen Liu	(83) M 2021017	(11) 2029443
Sha Sha	05.01.2021	(47) 17.04.2023
Qian Wang	China Center for Type Culture Collection (CCTCC)	(22) 15.10.2021
(74) ir. M.B. Plaggenborg	College of Life Sciences, Wuhan University, Wuhan 430072, China	(54) Gutter
(31) 202111148374.4	(31) 202110839646.9	(73) Bob Janssen
(32) 29.09.2021	(32) 23.07.2021	(72) Erik Hans Kooistra
(33) China	(33) China	(74) drs. P.A. van Essen c.s.
(51) C08L 63/00		(31) 20202162.2

(32) 15.10.2020	(74) dr. ir. F.M. van Bouwelen	(32) 18.06.2021
(33) European Patent Office (EPO)	(31) 17/493,944	(33) China
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(11) 2028759	(32) 05.10.2021	H05G 2/00
(47) 17.04.2023	05.10.2021	H01S 3/00
(22) 16.07.2021	(33) United States of America	(11) 2028521
(54) ROOF TENT CLOSURE MECHANISM	United States of America	(47) 13.04.2023
(73) CAPAVENTURE - EQUIPAMENTOS	(51) F24F 7/06	(22) 23.06.2021
PARA LAZER E TEMPOS LIVRES, LDA.	F24F 13/02	(54) EXTREME ULTRAVIOLET
(72) Mario José Oliveira Martins	F24F 120/10	LIGHT GENERATION SYSTEM
Tony René Partenio	F24F 110/50	AND ELECTRONIC DEVICE
(74) ir. H.A. Witmans c.s.	F24F 8/22	MANUFACTURING METHOD
(31) 11978	(11) 2033104	(73) Gigaphoton Inc.
(32) 17.07.2020	(47) 12.04.2023	(72) Takanari Kobayashi
(33) Portugal	(22) 22.09.2022	Hirokazu Hosoda
(51) E21D 9/01	(54) CENTRALIZED EXHAUST SYSTEM	Yoshiyuki Honda
(11) 2032728	FOR PUBLIC TOILET	(74) ir. H.Th. van den Heuvel c.s.
(47) 14.04.2023	(73) Chongqing University of Science and	(31) 2020-129666
(22) 10.08.2022	Technology	(32) 30.07.2020
(54) TUNNEL MULTI-SECTION PARALLEL	(72) Jiao Cai	(33) Japan
EXPANDING METHOD FOR	Wei Liu	(51) G06F 3/0354
ACCELERATING CONSTRUCTION ON	Baoying Ding	G06F 3/01
BASIS OF EXISTING TUNNEL	Yao Yang	G06F 3/04883
(73) Guizhou Transportation Planning Survey	Chuan Lu	(11) 2029321
and Design Academe Co., Ltd.	Tao Liu	(47) 14.04.2023
(72) Xuan Cui	Ding Lei	(22) 05.10.2021
Qiang Hu	Yifang Luo	(54) TOUCH-SENSITIVE INPUT REGION
Yin Zhang	(74) ir. W.J.J.M. Kempes	FOR ELECTRONIC STYLUS
Weihua Zhang	(31) 202221602159.7	(73) Microsoft Technology Licensing, LLC
Xiaoyong Liu	(32) 24.06.2022	(72) Uri Ron
Chunping Yang	(33) China	Shoham Dekel
Bin Du	(51) G01S 17/06	Assaf Bar-Ness
Jiao Tian	G01S 17/894	Vadim Mishalov
Pin Liu	G01S 17/90	(74) ir. J.C. Volmer c.s.
(74) ir. M.B. Plaggenborg	G01N 21/88	(51) G06N 3/08
(31) 202210816296.9	G01N 21/95	H04N 19/126
(32) 12.07.2022	(11) 2030333	(11) 2029548
(33) China	(47) 17.04.2023	(47) 17.04.2023
(51) F02M 26/02	(22) 29.12.2021	(22) 28.10.2021
F02B 37/24	(54) LIDAR-BASED UNMANNED AERIAL	(54) DETERMINING ADAPTIVE
F02B 39/10	VEHICLE BRIDGE BOTTOM	QUANTIZATION MATRICES USING
F02B 47/08	DETECTION SYSTEM	MACHINE LEARNING FOR VIDEO
F02D 23/00	(73) Shanghai Tonglu Cloud Transportation	CODING
F02D 41/00	Technology Co., Ltd.	(73) Intel Corporation
F02B 37/12	(72) Xiaoming Zhang	(72) James Holland
(11) 2029326	Sheng Zhong	Sang-hee Lee
(47) 17.04.2023	Shengchuan Jiang	Ximin Zhang
(22) 06.10.2021	(74) ir. M.B. Plaggenborg	Zhan Lou
(54) A powertrain for a truck	(31) 202110949834.7	(74) dr. A. Krebs
(73) DAF Trucks N.V.	(32) 18.08.2021	(31) PCT/US20/62604
(72) Abraham Wessel Hakstege	(33) China	(32) 30.11.2020
(74) ir. H.A. Witmans c.s.	(51) G01V 3/28	(33) United States of America
(51) F16J 15/08	(11) 2030696	(51) G06Q 10/0832
F16J 15/16	(47) 17.04.2023	G06Q 10/04
E21B 23/06	(22) 25.01.2022	A01B 79/00
E21B 33/12	(54) THREE-COMPONENT BOREHOLE	G06Q 10/0631
E21B 33/126	MAGNETOMETER BASED ON HIGH-	G06Q 10/0835
E21B 33/128	TEMPERATURE DIGITAL FLUXGATE	G06Q 50/02
E21B 33/129	(73) Chengdu University of Technology	(11) 2030763
(11) 2032931	(72) Yuhao Miao	(47) 17.04.2023
(47) 14.04.2023	Yuan Li	(22) 28.01.2022
(22) 01.09.2022	Song Gao	(54) METHOD FOR PLANNING ORIGIN-
(54) EXPANDABLE METAL SEALING/	Jiaming Liu	BASED PRE-COOLING SYSTEM
ANCHORING TOOL	Chunmei Yuan	CONSIDERING INVESTMENT OF
(73) Halliburton Energy Services, Inc.	Gang Wang	MULTI-TYPE FACILITIES
(72) Shanu Thottungal Eldho	Sinian Liu	(73) Dalian University of Technology
Brandon T. Least	(74) ir. M.B. Plaggenborg	Northwest A & F University
Michael Linley Fripp	(31) 202110676232.9	

Beijing Jingdong Shangke Information
Technology Co., Ltd.

- (72) Xiangpei Hu
Xuping Wang
Na Lin
Junhu Ruan
Hua Wang
Ya Li
Xiaochun Feng
Zhiwei Qiao
(74) ir. M.B. Plaggenborg
(31) 202110366073.2
(32) 06.04.2021
(33) China
-

- (51) G16H 50/80
G16H 40/63
G16H 40/67
(11) 1044153
(47) 17.04.2023
(22) 10.09.2021
(54) Een systeem dat de verspreiding van
een virus kan beheersen en mogelijk
in omvang kan beperken danwel een
uitbraak kan voorkomen. Een en ander
met behoud van een nagenoeg goed
functionerende maatschappij.

- (73) Egbert Veen
(72) Egbert Veen
-

- (51) H03F 1/02
H03F 3/213
H01L 23/66
H03F 3/195
H03F 1/56
H01L 23/64
(11) 2029316
(47) 13.04.2023
(22) 04.10.2021
(54) Power amplifier and Doherty amplifier
comprising the same
(73) Ampleon Netherlands B.V.
(72) Yi Zhu
Zhi Geng
(74) dr. ir. G.J.C. Verdijck c.s.
-

NP3

**Nederlandse octrooien na gedeeltelijke afstand conform artikel 63 van de Octrooiwet 1995..
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(51) E04B 5/04
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OREN, Ran	A61B 17/122	PARISI, Gianluca
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C07K 14/085	C11D 3/48	C07J 63/00
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C07K 14/11	(21) EP18890486.6	C07H 15/256
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AND METHOD OF MANUFACTURING	(72) ONO, Takahito	(72) YUGE, Seiro
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IN A MICROFLUIDIC SYSTEM	(22) 11.03.2020	SEPARATOR SYSTEM
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LEGER, Charlotte	(73) Beckman Coulter, Inc.	(51) B05B 1/04
CUNIASSE, Pierre-Antoine	(72) WATKINS, Nicholas Everette	(11) EP3965942
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(72) KANEKO Tsutomu	(51) B25F 5/00	KELLEHER, Joseph Patrick
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(72) ABELLO ROSELLO, Lluís GONZALEZ, Sergio GONZALEZ ROGEL, Jordi	(73) Maxell, Ltd. (72) KITO, Katsuyuki IZUMO, Taeko OKAWA, Masakatsu HONGO, Kenta	(11) EP3556539 (21) EP17880861.4 (47) 10.05.2023 (87) JP2017045027 21.06.2018
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(22) 08.05.2018 (54) PROCESS FOR THREE-DIMENSIONAL PRINTING, PARTICULARLY FOR THE PRODUCTION OF WINDOWS, PLATE-SHAPED ELEMENTS FOR FLOORS OR THE LIKE	(2) 11.06.2019 (54) 3D-PRINTING METHOD OF AN ELASTOMERICALLY DEFORMABLE RUBBER BODY, IN PARTICULAR A RUBBER SEAL	(51) B29C 64/124 B33Y 70/00 B33Y 10/00 B29C 64/40 G03F 7/00
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(11) EP3848180 (21) EP21160273.5 (47) 10.05.2023 (22) 13.07.2015 (54) METHOD AND SYSTEM FOR ROTATIONAL 3D PRINTING	(11) EP3922438 (21) EP21175129.2 (47) 19.04.2023 (22) 20.05.2021 (54) SYSTEM AND METHOD FOR OPERATING A MULTI-NOZZLE EXTRUDER DURING ADDITIVE MANUFACTURING	(73) CARBON, INC. (72) POELMA, Justin ROLLAND, Jason P. (31) 201862713230 P (32) 01.08.2018 (33) United States of America
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ZIEGLER, Philipp	(51) B29C 65/08	B65H 54/00
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(54) 3D PRINTING APPARATUS AND METHOD	(54) STRETCHABLE MEMBER AND DISPOSABLE ARTICLE FOR WEARING HAVING STRETCHABLE MEMBER	KOBIERECKI, Robert
(73) Markforged, Inc.	(73) Daio Paper Corporation	(51) B29C 70/38
(72) JONES, Bruce David	(72) TSUNODA, Arika	(11) EP3705280
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C12M 1/34	B65B 51/10	(11) EP3666506
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B29C 33/30	MANUFACTURING A CURED	F16G 5/20
B29B 11/16	COMPOSITE STRUCTURE	B32B 3/26
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MANUFACTURING A PREFORM FOR A	B29C 70/44	B32B 25/20
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(54) METHOD FOR PRODUCING	(33) United States of America	(33) Japan
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(73) Wobben Properties GmbH	B29C 35/02	(11) EP3808550
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B29C 33/50	COMPOUND LAMINATE	(72) Rittweger, Stefan
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(73) Bridgestone Corporation	(11) EP3516130	(72) KOSSE, Marcus
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DE COL, Christian	B29C 53/08	H01R 43/048
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B32B 9/04	B32B 27/36	B32B 25/08
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D03D 15/00	B32B 5/04	B32B 27/08
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KAWAHARA, Shinya	(73) Giesecke+Devrient Currency Technology	BLANCH ALERANY, Montserrat
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KEMMLING, Jan-Phillip	B60B 1/02	MANUFACTURING A WHEEL BEARING
BLUM, Oliver, Richard	B60B 1/04	UNIT

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(72) Albl, Johannes Frisch, Michael	(21) EP18836254.5	(51) B60C 9/00
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(72) Daffue, Marcel	(33) Germany	SCHUNACK, Michael
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(54) PNEUMATIC TIRE	(21) EP20208178.2	(51) B60C 9/22
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(33) Japan	(72) SPORTELLI, Francesco	B29D 30/30
(51) B60C 1/00	BHUIYAN, Md Atiqur Rahman	B29D 30/70
C08L 9/06	RICHARDS, Jimmy Lee	(11) EP3725547
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(47) 19.04.2023	B60C 7/14	NARITA, Keigo
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(51) B60C 11/03	(11) EP4008569	BASTIN, Pierre Joseph Christian
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(54) TYRE	(73) Sumitomo Rubber Industries, Ltd.	(51) B60C 19/00
(73) Sumitomo Rubber Industries, Ltd.	(72) KITAMURA, Naoya	B60C 13/00
(72) YAMAOKA, Hiroshi	(31) 2021179498	B60C 15/06
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(72) HIKITA, Masahiro	(54) PNEUMATIC TIRE	(32) 12.09.2017
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(73) Bridgestone Corporation	(22) 01.12.2020	(72) BILL, Mr. Andrew
(72) TAKAGI, Kota	(54) A PNEUMATIC TIRE	(31) 202001487
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(33) Japan	VAISSAUD, Julien Alexandre	(51) B60C 27/06
(51) B60C 11/03	MAUS, Peter Johann Cornelius	(11) EP3932698
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(73) Sumitomo Rubber Industries, Ltd.	B32B 7/04	(32) 29.06.2020
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(51) B60C 11/03	(73) The Goodyear Tire & Rubber Company	
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(33) Italy	(47) 10.05.2023	WHEELSET WITH CONTROLLED
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(72) LI, Dalong	(11) EP3205519	TORSION BEAM AXLE
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B60D 1/54	KAWACHI, Takeshi	B60H 1/32
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(22) 23.03.2016	(47) 10.05.2023	(54) METHOD FOR DE-ICING AN
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(73) Defense Products and Services Group	(22) 19.05.2020	CONDITIONING SYSTEM WITH A HEAT
Holding Company	(54) MOUNTING GUIDE FOR A MOTOR	PUMP
(72) FINCHER, Charles Kenneth	VEHICLE PANHARD BAR	(73) Ford Global Technologies, LLC
(31) 201514666722	(73) PSA Automobiles SA	Ford-Werke GmbH
(32) 24.03.2015	(72) MINISINI, Antoine	(72) LOSTREK, David
(33) United States of America	MARCONOT, Pascal	(31) 102017206135
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MESSINA, Mr. Alessandro	(54) SUSPENSION ELEMENT OF A	(21) EP19779260.9
PASTORE, Mr. Fabrizio	VEHICLE	(47) 19.04.2023
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(73) Carrier Corporation	(31) 202100003755	(51) B60J 1/20 B60J 7/00
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(32) 02.08.2019	(73) Conductix-Wampfler GmbH	(31) 102017215640
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(73) Zaptec IP AS	(54) SOIL WORKING MACHINE WITH CONNECTIBLE SEAT	(73) Adient US LLC
(72) Stojanovic, Zoran	(73) Wirtgen GmbH	(72) SEIBOLD, Kurt A.
	(72) Barimani, Cyrus	KAPUSKY, Michael John
	Drumm, Stephan	MICHALAK, Eric Bernard
	Körtgen, Alexander	(31) 201862681113 P
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(21) EP20208702.9	(47) 10.05.2023	(47) 19.04.2023
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(73) Hamm AG	(72) Walser, Hans-Karl	VEHICLE WITH A PROTECTION
(72) Reif, Gernot	(31) 1922019	SYSTEM FOR A PASSENGER
Reber, Stefan	(32) 22.05.2019	(73) VOLKSWAGEN
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(33) Germany	B60N 2/66	SCHÖNFISCH, Peter
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YASEN, Mothanna	VERGNAUD, Loïc	(72) XU, Jie
DILL, Thomas	DE-COLOMBEL, Bertrand	SONG, Qing
WOLF, Christian	DREUX, Raoul	XU, Donghai
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B29C 70/02	(54) VEHICLE SEAT WITH DISPLACEABLE	(22) 29.06.2020
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(47) 10.05.2023	(31) 102019110765	(73) Bär Management- und
(22) 16.10.2020	(32) 25.04.2019	Beteiligungsgesellschaft mbH
(54) SEAT FOR PUBLIC PASSENGER	(33) Germany	(72) Becci, Luca Matteo
TRANSPORT	(51) B60N 2/68	Paosut, Marc Somchai
(73) SKA Sitze GmbH	B60N 2/42	Urban, Dominik
(72) SCHÄFER, Timo	(11) EP3357747	Baumann, Martin
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(47) 19.04.2023	BABA, Hiroshi	B60Q 1/28
(22) 03.02.2020	MISONO, Taiji	F21S 41/663
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SYSTEM	SHIMAZU, Masaki	(11) EP3825181
(73) Ningbo Geely Automobile Research &	(31) 2017017826	(21) EP19210552.6
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(47) 19.04.2023	(73) Flex-N-Gate Advanced Product Development, LLC	B60R 21/2165
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(54) METHOD FOR CONTROLLING A LIGHT PATTERN AND AUTOMOTIVE LIGHTING DEVICE	(31) 201862727086 P	(11) EP3802219
(73) Valeo Vision	(32) 05.09.2018	(21) EP19728665.1
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(33) France	B60D 1/36	(22) 04.06.2019
(51) B60Q 1/00	B60D 1/62	(54) HORN MODULE FOR A VEHICLE STEERING WHEEL AND ASSEMBLY COMPRISING A DRIVER AIRBAG MODULE AND A HORN MODULE
B60R 11/04	(11) EP3898329	(73) Dalphi Metal España, S.A.
H04N 5/225	(21) EP19839623.6	(72) BAÑA CASTRO, Ramón
(11) EP3715177	(47) 19.04.2023	PÉREZ BLANCO, Mónica
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(54) HEADLIGHT FOR VEHICLES, IN PARTICULAR MOTOR VEHICLE HEADLIGHT	(54) TRAILER HITCH ASSIST WITH LIGHT TO ILLUMINATE A REARWARD ENVIRONMENT OF A VEHICLE	(33) Germany
(73) ZKW Group GmbH	(73) Continental Autonomous Mobility US, LLC	(51) B60R 9/04
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(54) PLASTIC-SCREW-LIGHTWEIGHT METAL-COMPONENT-FIXING SYSTEM AND METHOD FOR SCREWING PLASTIC SCREWS INTO LIGHT METALS	G01S 3/783	(33) Australia
(73) ZKW Group GmbH	(11) EP3820737	(51) B60R 11/00
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Hauer, Clemens	(87) IB2019055849	(21) EP21185685.1
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(21) EP18214120.0	(54) WINDOW CONTROL SYSTEM FOR LIMITING LIGHT INTENSITY VARIATION	(54) ELECTRIC COMPONENT MOUNTING STRUCTURE
(47) 19.04.2023	(73) GENTEX CORPORATION	(73) Suzuki Motor Corporation
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(54) METHOD FOR CORRECTING A LIGHT PATTERN AND AUTOMOTIVE LIGHTING DEVICE ASSEMBLY	NEUMAN, George A.	(31) 2020134973
(73) Valeo Vision	SAENGER NAYVER, Mario F.	(32) 07.08.2020
(72) PRAT, Constantin	NELSON, Barry K.	(33) Japan
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(73) Scolotech GmbH	(11) EP3746335	(51) B60T 1/04
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(51) B60R 16/02	(22) 27.09.2018	(22) 11.03.2020
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(21) EP20726176.9	(73) HONDA MOTOR CO., LTD.	(73) Continental Automotive Technologies GmbH
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(72) BROCAL, Sylvain	(21) EP20196833.6	(51) B60T 7/22
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IBORRA, Pascal	(22) 18.09.2020	B60T 8/32
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(73) Yazaki Corporation	(51) B60S 3/04	(72) OSHIDA, Yuki
(72) Kobayashi, Kazuki	(11) EP3904167	(31) 2017081002
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(22) 19.11.2020	(2) 28.08.2019	(54) TANK DEVICE, IN PARTICULAR BRAKE FLUID RESERVOIR FOR A HYDRAULIC BRAKE SYSTEM OF A VEHICLE
(54) AIRCRAFT BRAKE CONTROL SYSTEMS	(54) METHOD AND SYSTEM FOR ESTIMATING FRICTION COEFFICIENTS	(73) Robert Bosch GmbH
(73) The Boeing Company	(73) VOLKSWAGEN AKTIENGESELLSCHAFT	(72) Stefaniak, Eligiusz
(72) Yamamoto, David T.	(72) RIELING, Jörg	Kucharski, Adam
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(54) CONTROL DEVICE, CONTROL METHOD, AND BRAKING SYSTEM	F04B 1/182	(73) ZF CV Systems Europe BV
(73) Robert Bosch GmbH	F04B 53/16	(72) BIALON, Rafal
(72) OSHIDA, Yuki	F16D 65/00	OTREMBIA, Robert
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(72) OSHIDA, Yuki	(51) B60T 8/36	(21) EP19716540.0
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B60T 8/88	H01F 5/04	(73) LEONI Kabel GmbH
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B60W 30/02	B60T 17/02	KÖPPENDÖRFER, Erwin
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AGATA, Yoshimitsu	FUJII, Kohsuke	(72) Thomann, Karl-Heinz
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(73) Bayerische Motoren Werke	(73) The Hi-Tech Robotic Systemz Ltd	(72) Glinka, Martin
Aktiengesellschaft	(72) KAPURIA, Anuj	Teichmann, Martin
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METHOD	DRIVING ASSISTANCE METHOD, AND	(73) CRRCC Changchun Railway Vehicles Co.,
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	PROGRAM	Ltd.
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(73) Siemens Mobility Austria GmbH	(73) Schaeffler Technologies AG & Co. KG	(72) ZOETARDT, Patrick
(72) BEHRENDT, Lars	(72) PACHNER, Sebastian	(72) RADOMIAK, Andre
SCHANDL, Gerhard	(72) ROSENHEINRICH, Bert	(51) B62B 3/02
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(11) EP3992059	(47) 19.04.2023	MANUFACTURING DRAWN BODY FOR
(21) EP19935117.2	(22) 12.05.2020	AUTOMOBILE STRUCTURAL MEMBER
(47) 19.04.2023	(54) STEERING SYSTEM	(73) Nippon Steel Corporation
(87) JP2019025806	(73) JTEKT CORPORATION	(72) OTSUKA, Kenichiro
30.12.2020	(72) NAKAMURA, Keishi	MIYAGI, Takashi
(22) 28.06.2019	KONDO, Yoshio	(31) 2016120157
(54) STEERING CONTROL METHOD AND	OGATA, Toshiaki	(32) 16.06.2016
STEERING CONTROL DEVICE	KISHIDA, Fumio	(33) Japan
(73) NISSAN MOTOR Co., Ltd.	(31) 2019092359	(51) B62D 25/20
(72) SUZUKI, Taku	(32) 15.05.2019	B62D 29/00
(51) B62D 6/00	(33) Japan	B29C 43/18
B62D 5/04	(51) B62D 21/03	B29C 43/52
B62D 101/00	B62D 21/09	B29K 105/06
B62D 119/00	B62D 33/077	(11) EP3805078
B62D 15/02	(11) EP3705386	(21) EP18921644.3
(11) EP3718859	(21) EP20161494.8	(47) 10.05.2023
(21) EP18883279.4	(47) 10.05.2023	(87) JP2018021436
(47) 10.05.2023	(22) 06.03.2020	12.12.2019
(87) JP2018043842	(54) SUBFRAME	(22) 05.06.2018
06.06.2019	(73) Palfinger AG	(54) VEHICLE BODY STRUCTURE AND
(22) 28.11.2018	(72) FABI, Daniel	METHOD FOR MANUFACTURING
(54) VEHICLE STEERING DEVICE	(31) 5003119 U	VEHICLE BODY
(73) JTEKT CORPORATION	(32) 07.03.2019	(73) NISSAN MOTOR CO., LTD.
(72) MOREILLON, Maxime	(33) Austria	(72) NAITO, Tetsuro
TAMURA, Tsutomu	(51) B62D 25/02	TORIGAKI, Toshikazu
FUCHS, Robert	B62D 25/04	TAKEMOTO, Shinichirou
NAKADE, Tomohiro	B62D 21/15	MOROHOSHI, Katsumi
(31) 2017230561	B60J 5/04	
(32) 30.11.2017	(11) EP3770047	(51) B62H 5/00
(33) Japan	(21) EP20185910.5	B62J 1/12
(51) B62D 15/02	(47) 10.05.2023	B62K 11/04
B60W 30/06	(22) 15.07.2020	(11) EP3971067
G06K 9/00	(54) VEHICLE-BODY STRUCTURE OF	(21) EP21192368.5
(11) EP3689714	VEHICLE, AND VEHICLE	(47) 19.04.2023
(21) EP20158465.3	(73) MAZDA MOTOR CORPORATION	(22) 20.08.2021
(47) 10.05.2023	(72) Honda, Masanori	(54) STRADDLED VEHICLE SEAT LOCK
(22) 19.07.2018	Okuyama, Tomohito	(73) Yamaha Hatsudoki Kabushiki Kaisha
		(72) Oba, Mineo
		(31) 2020156924

(32) 18.09.2020	(73) TVS Motor Company Limited	(72) RAFFAELLI, Andrea
(33) Japan	(72) NANDA KISHOR BANDARU, Siva Rama	SANTUCCI, Mario
(51) B62J 9/00	BABU PANNEER, Suresh	(31) 201900002561
B62K 19/46	VASUDEVA MURTHY, Thejasvi	(32) 22.02.2019
B62J 9/14	SIVAKUMAR, Arumugam	(33) Italy
(11) EP3814207	GARG, Manish	(51) B62K 25/20
(21) EP19724789.3	(31) 201741012189	B62K 11/10
(47) 10.05.2023	(32) 05.04.2017	(11) EP3882116
(87) EP2019062330	(33) India	(21) EP19884906.9
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(22) 14.05.2019	B62K 19/06	(87) JP2019044205
(54) STRADDLE-TYPE VEHICLE WITH	B62H 1/02	22.05.2020
STOWAGE COMPARTMENT	(11) EP3521148	(22) 11.11.2019
(73) Bayerische Motoren Werke	(21) EP19151734.1	(54) Straddled vehicle
Aktiengesellschaft	(47) 10.05.2023	(73) Yamaha Hatsudoki Kabushiki Kaisha
(72) WINKLER, Angelika	(22) 15.01.2019	(72) SAITO, Yusuke
HIRN, Armin	(54) STRUCTURE OF ELECTRIC VEHICLE	(31) 2018212476
HOFER, Gerhard	(73) Kwang Yang Motor Co., Ltd.	(32) 12.11.2018
HUTTERER, Philipp	(72) Chen, Yi-Tso	(33) Japan
WEBER, Marc	Ke, Shiow-Pyng	(51) B62M 6/55
(31) 102018210355	Su, Tai-Yuan	B62M 3/00
(32) 26.06.2018	(31) 107103530	B62M 11/00
(33) Germany	(32) 31.01.2018	(11) EP3816030
(51) B62J 11/00	(33) Taiwan, Chinese Taipei	(21) EP19804558.5
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B62K 11/14	B62J 9/14	21.11.2019
(11) EP3976453	B62J 9/30	(22) 27.03.2019
(21) EP20742888.9	(11) EP3747747	(54) RETROFITTING ELECTRIC DEVICE
(47) 19.04.2023	(21) EP18903136.2	FOR BICYCLE, AND BICYCLE
(87) IB2020054972	(47) 19.04.2023	(73) HONDA MOTOR CO., LTD.
03.12.2020	(87) JP2018003232	(72) TSUKAMOTO, Kenji
(22) 26.05.2020	08.08.2019	(31) 2018094502
(54) RIDE-ON SADDLE VEHICLE WITH AN	(22) 31.01.2018	(32) 16.05.2018
INTERFACE FOR INTEGRATING THE	(54) SADDLE RIDING TYPE VEHICLE	(33) Japan
ON-BOARD INSTRUMENTS WITH A	(73) Honda Motor Co., Ltd.	(51) B62M 6/55
MOBILE DEVICE	(72) KURAMOCHI, Akira	B62M 3/00
(73) PIAGGIO & C. S.P.A.	(51) B62K 11/04	B62M 11/02
(72) DI TANNA, Onorino	B62K 19/12	(11) EP3816031
SANTUCCI, Mario	B62K 19/24	(21) EP19803683.2
(31) 201900007752	B62J 1/08	(47) 10.05.2023
(32) 31.05.2019	B62J 1/12	(87) JP2019013247
(33) Italy	(11) EP4058343	21.11.2019
(51) B62J 17/00	(21) EP19816453.5	(22) 27.03.2019
B62J 25/04	(47) 10.05.2023	(54) RETROFITTING ELECTRIC DEVICE
(11) EP3889014	(87) IB2019059729	FOR BICYCLE, AND BICYCLE
(21) EP21159917.0	20.05.2021	(73) HONDA MOTOR CO., LTD.
(47) 10.05.2023	(22) 13.11.2019	(72) TSUKAMOTO, Kenji
(22) 01.03.2021	(54) A SEAT-SUPPORTING STRUCTURE	(31) 2018094503
(54) STRADDLED VEHICLE	FOR MOUNTING ON A MOTORCYCLE	(32) 16.05.2018
(73) Yamaha Hatsudoki Kabushiki Kaisha	FRAME	(33) Japan
(72) KULASATHIENPONG, Sorawit	(73) Zapp Electric Vehicles Limited	(51) B63B 1/22
HONGPONG, Nantakorn	(72) CHATSUWAN, Swin	B63B 39/06
YAMAUCHI, Yoshinori	THANATHAWEE, Warin	B63B 1/32
(31) 2020064743	MUNPRASIT, Namkarn	(11) EP3625117
(32) 31.03.2020	(51) B62K 21/02	(21) EP18802441.8
(33) Japan	B62K 25/04	(47) 19.04.2023
(51) B62J 17/02	B62L 1/00	(87) CA2018050585
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(11) EP3606808	(47) 19.04.2023	(54) A COMBINATION TRIM TAB AND
(21) EP18780434.9	(87) IB2020051415	INTERCEPTOR FOR A MARINE
(47) 10.05.2023	27.08.2020	VESSEL
(87) IB2018052346	(22) 20.02.2020	(73) Dometic Marine Canada Inc.
11.10.2018	(54) A SADDLED VEHICLE WITH DYNAMIC	(72) FETCHKO, Eric, B.
(22) 05.04.2018	ADJUSTMENT OF THE TRAIL OR OF	BAROS, Davor
(54) AN AIR DEFLECTING STRUCTURE	THE ATTITUDE	FERGUSON, Art
FOR A TWO WHEELED VEHICLE	(73) Piaggio & C. S.P.A.	(31) 201762507393 P

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(33) United States of America	B64C 27/02	(33) United Kingdom
(51) B63B 21/16	B64C 27/10	United Kingdom
B63B 21/06	B64C 27/37	(51) B64C 25/40
(11) EP3740423	B64C 27/50	H02P 9/00
(21) EP19714498.3	B64C 27/52	H02P 3/12
(47) 19.04.2023	B64C 39/02	(11) EP2960153
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(22) 18.01.2019	(21) EP21176695.1	(22) 23.06.2015
(54) A VESSEL WITH A SEMI AUTOMATIC OR AUTOMATIC MOORING SYSTEM AND METHOD	(47) 10.05.2023	(54) METHOD FOR MANAGING AN ELECTRIC MOTOR
(73) Kongsberg Maritime AS	(22) 28.05.2021	(73) Safran Landing Systems
(72) SIPILÄ, Sauli Petteri	(54) SINGLE MOTOR SINGLE ACTUATOR ROTORCRAFT	(72) Jaber, Sylvain
LEVANDER, Oskar	(73) Textron Innovations Inc.	Cekic, Raffi
CALLAWAY, Mark	(72) CAMPBELL, Kip Gregory	(31) 1455930
ROMEK, Michal	(31) 202016889608	(32) 25.06.2014
(31) 20180090	(32) 01.06.2020	(33) France
(32) 19.01.2018	(33) United States of America	(51) B64C 25/44
(33) Norway	(51) B64C 13/40	F16D 55/38
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(21) EP20196190.1	B64C 27/68	(21) EP21163265.8
(47) 10.05.2023	B64C 13/18	(47) 19.04.2023
(22) 15.09.2020	(11) EP3868654	(22) 17.03.2021
(54) HULL POSTURE CONTROL SYSTEM FOR HULL, POSTURE CONTROL METHOD FOR THE HULL, AND MARINE VESSEL	(21) EP20158337.4	(54) BRAKING SYSTEM
(73) YAMAHA HATSUDOKI KABUSHIKI KAISHA	(47) 10.05.2023	(73) Honeywell International Inc.
(72) NAKATANI, Jun	(22) 19.02.2020	(72) DENG, Fangmin
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(32) 24.09.2019	(73) Microtecnica S.r.l.	(32) 02.04.2020
(33) Japan	(72) MEZZINO, Giacomo	(33) United States of America
(51) B63B 49/00	MORNACCHI, Andrea	(51) B64C 27/82
B63B 43/18	MANTIA, Elio	F01D 5/30
G01B 11/00	(51) B64C 13/50	(11) EP3643609
(11) EP3805089	B64C 9/02	(21) EP19203020.3
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(47) 19.04.2023	B64F 5/40	(22) 14.10.2019
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(54) SHIP DOCKING ASSISTING APPARATUS AND SHIP DOCKING ASSISTING METHOD	(47) 19.04.2023	JALAGUIER, Jean-Pierre
(73) Yamaha Hatsudoki Kabushiki Kaisha	(22) 24.11.2020	(31) 1801135
(72) ISHII, Takahiro	(54) DRIVE UNIT AND MAINTENANCE METHOD FOR THE SAME	(32) 26.10.2018
(31) 2018102337	(73) NABTESCO CORPORATION	(33) France
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(33) Japan	TANAKA, Toshiaki	(11) EP3505444
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(47) 19.04.2023	F16D 3/06	(73) Aurora Flight Sciences Corporation
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(73) The Boeing Company	(11) EP3581487	(32) 28.12.2017
(72) Campbell, Darrell	(21) EP19190711.2	(33) United States of America
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(33) United States of America	(73) Airbus Operations Limited	(21) EP21193083.9
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	(32) 05.06.2014	(73) Aeronext Inc.
		(72) SUZUKI, Youichi
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(47) 19.04.2023	Lange, Roland	(22) 24.05.2017
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11.07.2019	(32) 27.03.2017	TURBINE INLET
(22) 04.12.2018	(33) Germany	(73) Hamilton Sundstrand Corporation
(54) ADJUSTING FLIGHT PARAMETERS OF	(51) B64D 11/04	(72) BRUNO, Louis J.
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ON PRESENCE OF PROPELLER	B64D 11/00	(31) 201662341922 P
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MELLINGER, Daniel, Warren, III	(22) 28.05.2021	B01D 53/04
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(32) 03.01.2018	INCLUDING A FOOTWELL AND AN	(21) EP19220255.4
(33) United States of America	INTEGRATED GALLEY	(47) 19.04.2023
(51) B64C 39/02	(73) B/E Aerospace, Inc.	(22) 31.12.2019
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(73) Swift Engineering, Inc.	(22) 18.12.2020	(87) US2019048253
(72) STRETT, Andrew	(54) SEATING ARRANGEMENT	05.03.2020
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(33) United States of America	JIN, Zhao	(73) De-Ice Technologies, Inc.
(51) B64C 39/06	(31) 201962949820 P	(72) BRATIANU-BADEA, Alexandru
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(47) 19.04.2023	(51) B64D 11/06	KROPP, Sean, David
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AND CORRESPONDING AIRCRAFT	PRIVACY SHELL SHAPE OF AIRCRAFT	(21) EP20275028.7
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(73) Hernadi, Andras	(73) B/E Aerospace, Inc.	(22) 07.02.2020
(72) Hernadi, Andras	(72) DOWTY, Mark B.	(54) ANTI-ICING AND DE-ICING HEATED
(51) B64D 11/00	JOHNSON, Glenn A.	LOCK PIN SYSTEM
B64D 11/04	ALI, Adil Mumdood	(73) Goodrich Actuation Systems Limited
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C09D 5/26	(32) 16.01.2020	FOSTER, Daniel
G01K 11/12	(33) United States of America	(51) B64D 27/24
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(47) 10.05.2023	(32) 18.12.2019	UGOMORI, Nobutaka
(22) 07.03.2018	(33) United States of America	FUKUSHIMA, Yasuhiro
(54) SINK UNIT ARRANGEMENT, GALLEY	(51) B64D 13/06	MIYABARA, Takeshi
COMPARTMENT AND GALLEY		MAEDA, Katsutoshi

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(51) B64D 37/00	(22) 01.03.2019	(22) 20.01.2020
B64D 37/04	(54) TAPE ELEVATION ADJUSTMENT	(54) AN AIRCRAFT WITH AN ILLUMINATION
B60K 15/035	DEVICE FOR AIRCRAFT ARRESTING	SYSTEM FOR ROTATING BLADES
B60K 15/063	SYSTEMS	(73) AIRBUS HELICOPTERS
B64D 37/32	(73) Engineered Arresting Systems	DEUTSCHLAND GmbH
(11) EP3960635	Corporation	(72) Vandenebee, Julien
(21) EP20400016.0	(72) LEVESQUE, Christopher	(51) B64G 1/10
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(73) AIRBUS HELICOPTERS	B64F 5/60	(87) JP2019021739
DEUTSCHLAND GmbH	G01M 11/06	03.12.2020
(72) BARRETO DE PINHO, Marcello	G01B 11/275	(22) 31.05.2019
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B60K 15/063	(47) 10.05.2023	(73) MITSUBISHI ELECTRIC
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(21) EP21165352.2	LAMP MOUNTING BRACKET	(51) B64G 1/10
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DEUTSCHLAND GmbH	(33) United States of America	03.12.2020
(72) BARRETO DE PINHO, Marcello	(51) B64F 5/50	(22) 31.05.2019
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F02C 7/06	F02K 1/72	FORMATION SYSTEM,
F16H 57/04	(11) EP3755627	SATELLITE CONSTELLATION
F16K 1/20	(21) EP19711970.4	FORMATION METHOD, SATELLITE
F16K 15/03	(47) 10.05.2023	CONSTELLATION FORMATION
F16K 31/22	(87) FR2019050380	PROGRAM, AND GROUND DEVICE
F16N 19/00	29.08.2019	(73) MITSUBISHI ELECTRIC
(11) EP3792185	(22) 19.02.2019	CORPORATION
(21) EP19382789.6	(54) DRIVE UNIT FOR AN AIRCRAFT	(72) MUKAE, Hisayuki
(47) 19.04.2023	HAVING LIFTING POINTS, AND	(51) B64G 1/40
(22) 12.09.2019	CARRIAGES FOR SUPPORTING SUCH	B64G 1/42
(54) OVERFILL VALVES	A UNIT	B64G 1/00
(73) Airbus Operations, S.L.U.	(73) Safran Nacelles	(11) EP3670361
(72) CHIABRANDO, Marcos, Javier	SAFRAN AIRCRAFT ENGINES	(21) EP18215602.6
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(32) 08.05.2017	AND MOP	(73) SACMI COOPERATIVA MECCANICI
(33) Germany	(73) Petito, Katia	IMOLA SOCIETA' COOPERATIVA
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(72) Lin, Hsin-Yung	FORMING GLASS RIBBONS	METHOD FOR GLASS ARTICLE
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(73) Oxford University Innovation Limited	(11) EP3363811	VANEY, Marie-Christine
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(72) WINSTON, William	(51) C07K 14/71	(72) SHINOMIYA, Kenji
HICKLIN, Daniel	C07K 16/46	YONEYAMA, Koichiro
BHASKAR, Vinay	A61K 38/17	SHIBAHARA, Norihito
EVNIN, Luke	A61P 9/12	TSUBOI, Yoshinori
BAEUERLE, Patrick	A61P 9/10	FUKUZAWA, Taku
SALMERON GARCIA, Jose Andres	A61P 13/12	HARAYA, Kenta
BRODKIN, Heather	A61P 35/00	SAMPEI, Zenjiro
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(54) INSULIN RECEPTOR PARTIAL	United States of America	TREATING AUTOIMMUNE DISEASES
AGONISTS	United States of America	(73) Hanall Biopharma Co., Ltd.
(73) Merck Sharp & Dohme LLC	(51) C07K 16/10	(72) KIM, Sung Wuk
(72) Lin, Songnian	A61K 39/12	PARK, Seung Kook
Yan, Lin	A61P 31/14	JEONG, Jae Kap
Huo, Pei	(11) EP3172229	AHN, Hyea Kyung
Pissarnitski, Dmitri	(21) EP15781974.9	KIM, Min Sun

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A61K 38/16	(72) KIKUCHI, Akitomo	STIENEKER, Axel
A61P 35/00	YASUMOTO, Atsushi	STURM, Harald
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(54) ACTIVE-ENERGY-RAY-CURABLE	(73) INEOS Styrolution Group GmbH	EVEN, Ralph C.
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ARTICLE	RO, Andrew J.	SLARK, Andrew
(73) Bridgestone Corporation	WILLOUGHBY, Patrick	CHAUVEAU, Guillaume
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C08F 2/40	FORMING RESIST PATTERN	SWARTZ, Andrew
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JO, Yeong Bin	29.10.2020	MATERIAL, APPLICATION METHOD
JANG, Tae Hwan	(22) 23.04.2020	OF COMPOSITE PHASE CHANGE
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LI, Jing	(22) 16.02.2022	(73) Huntsman Petrochemical LLC
SUN, Ye	(54) FLAME-RETARDANT NONIONIC STABILIZED AQUEOUS PU DISPERSION	(72) DRIES, Geert Lodewijk
ZHENG, Bing	(73) SYNTHOPOL CHEMIE Dr. rer. pol. Koch GmbH & CO. KG	WILTZ, Eugene P. Jr.
WANG, Lunpeng	(72) SPOHNHOLZ, Rüdiger	GRIGSBY, Robert Allison Jr.
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INITIALIZED POLYETHERAMINES AND	Stadler, Bernhard M.	REACTION PRODUCTS
USES THEREOF	de Vries, Johannes Gerardus	(73) Huntsman International LLC
(73) Huntsman Petrochemical LLC	(51) C08G 18/48	(72) WOUTTERS, Steve, Andre
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(73) Tokyo University of Science Foundation	MIYAKE, Kevin K.	PELLACANI, Luigi
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AND SNAP-CURE BEHAVIOUR	POLYURETHANE FOAM	(73) Sika Technology AG
(73) Huntsman International LLC	(73) Covestro Deutschland AG	(72) BURCKHARDT, Urs
(72) JONCHERAY, Thomas Julien	(72) ARNTZ, Hans-Detlef	KRAMER, Andreas
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(Switzerland) GmbH	COMPANY, INC.	LEE, Bun Yeoul
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(72) UEMATSU, Teruhiro	(73) Sociedad Anónima Minera Catalano-	(72) HOSHINO, Taiki
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POZHAI VENGU, Gurunath	HARRIS, William J.	LIU, Nanguo
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C08G 69/26	(33) United States of America	Kastner, Christian
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(47) 10.05.2023	C08G 75/06	(51) C08G 77/50
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ARTICLE	(11) EP3816203	A61Q 1/10
(73) EMS-CHEMIE AG	(21) EP20809921.8	A61Q 1/12

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A61Q 5/06	SAME	PRODUCTION METHOD THEREFOR
A61Q 17/04	(73) Sekisui Plastics Co., Ltd.	(73) Panasonic Intellectual Property
A61Q 19/00	(72) KUWAGAKI, Kaori	Management Co., Ltd.
A61Q 19/04	KUSAKA, Akiyoshi	(72) OKABE, Ami
C08G 77/14	(51) C08J 3/12	NAGINO, Toshifumi
C08G 77/46	C08J 3/14	(31) 2021077721
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(33) Japan	(72) Diekmann, Wolfgang	BLEND FILM AND RELATED METHODS
(51) C08J 3/07	Grebe, Maik	(73) The Procter & Gamble Company
C08C 1/10	Baumann, Franz-Erich	(72) LABEQUE, Regine
C08C 2/00	Monsheimer, Sylvia	COURCHAY, Florence Catherine
C08J 5/02	Küting, Beatrice	KEULEERS, Robby Renilde François
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C08L 53/02	(32) 30.09.2016	LEE, David M.
C08C 1/15	(33) Germany	YOGAN, Thomas J.
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(54) METHOD FOR MANUFACTURING	(21) EP16781199.1	H01M 50/403
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(32) 29.02.2016	PRODUCT	(22) 03.08.2021
(33) Japan	(73) Stora Enso Oyj	(54) POLYIMIDE PRECURSOR-
(51) C08J 3/12	University of Maine System Board of	CONTAINING AQUEOUS
C08J 3/09	Trustees	COMPOSITION AND METHOD FOR
C08J 3/11	(72) MAYES, Duncan	PRODUCING POROUS POLYIMIDE
C08J 3/14	PYNNÖNEN, Janne	FILM
C08J 3/16	WEST, Christopher H.	(73) Fujifilm Business Innovation Corp.
C08G 63/06	GARDNER, Douglas J.	(72) KASHIMA, Yasunobu
C08G 63/08	HAN, Yousoo	YOSHIMURA, Kosaku
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A61K 8/02	C08J 5/06	(51) C08J 9/14
A61K 8/85	C08L 67/04	C09K 5/04
A61K 8/92	C12N 11/12	C09K 3/30
A61Q 19/00	C08K 7/02	(11) EP3725829
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(54) GENERALLY SPHERICAL	(22) 07.04.2022	COMPOSITION
RESIN PARTICLES FORMED OF	(54) COMPOSITE RESIN MOLDED	(73) Zhejiang Quhua Fluor-Chemistry Co.,
THERMOPLASTIC RESIN, METHOD	PRODUCT WITH ADJUSTED	Ltd.
		(72) YANG, Bo

HONG, Jiangyoung	C08J 9/00	C08K 3/22
ZHANG, Yan	(11) EP3710523	C08K 3/32
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(51) C08J 9/228	(54) METHOD OF MAKING POLYMER	C08K 7/14
B29C 44/14	MATRIX COMPOSITES	C08K 9/02
B29C 44/44	(73) 3M Innovative Properties Company	C08K 13/04
B32B 5/28	(72) DEHN, Derek J.	C08L 67/02
B32B 27/12	WALLER, Clinton P., Jr.	C08L 77/06
B32B 27/32	BRUSS, Jeanne M.	(11) EP3652241
B29K 23/00	ACHARYA, Bharat R.	(21) EP18739831.8
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(22) 19.03.2018	C08K 5/01	HÖROLD, Sebastian
(54) SKIN-MATERIAL-COATED FOAM	C08K 5/02	SICKEN, Martin
PARTICLE MOLDED BODY	C08K 9/10	(31) 102017212099
(73) JSP Corporation	C08L 23/16	(32) 14.07.2017
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KAWAKAMI, Hiroki	C08L 33/20	(51) C08K 3/016
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(87) JP2016001109	MOLDED FOAM ARTICLE	C08L 9/00
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(73) Asahi Kasei Kabushiki Kaisha	C09D 133/08	04.02.2021
(72) KONDO, Motoki	C08G 101/00	(22) 24.06.2020
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(33) Japan	(47) 19.04.2023	RETARDANT VIBRATION ISOLATION
(51) C08J 9/26	(87) US2019021420	RUBBER MEMBER
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07.06.2018	(73) Dow Global Technologies LLC	(33) Japan
(22) 01.12.2017	Rohm and Haas Company	(51) C08K 3/26
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PROCESS FOR MANUFACTURE AND	KOONCE, William A.	C08K 5/092
USES THEREOF	MENG, Qinghao	C08K 5/521
(73) SAFRAN	THIEDE, Christopher	C08K 7/02
(72) FOTSING, Edith Roland	GRIFFITH, William, Jr.	C08K 9/04
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WITH MALEIC ANHYDRIDE	(54) FLUOROELASTOMER COMPOSITION	(22) 27.07.2020
GRAFTED POLYETHYLENE AND/ OR MALEIC ANHYDRIDE GRAFTED	(73) Solvay Specialty Polymers Italy S.p.A.	(54) RUBBER COMPOSITION AND
POLYPROPYLENE AND AT LEAST	(72) BOSSOLO, Stefano	PNEUMATIC TIRE
ONE HYDROPHOBIZING AGENT	AVATANELO, Marco	(73) The Goodyear Tire & Rubber Company
(73) Omya International AG	MILLEFANTI, Stefano	(72) STEINER, Pascal Patrick
(72) WELKER, Matthias	COX, Michael J.	DELVILLE, Jerome Joel Daniel
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(47) 19.04.2023	(73) Reagens S.p.A.	(21) EP18873631.8
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PROCESS FOR THEIR PREPARATION	(51) C08K 7/14	(72) TAHARA, Seiichi
AND THEIR USE	C08K 7/28	(31) 2017210389
(73) Clariant International Ltd	C08K 13/06	(32) 31.10.2017
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HÖROLD, Sebastian	(21) EP19714158.3	(51) C08L 7/00
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C07C 69/82	AN APPLICATION AND ARTICLE	(47) 10.05.2023
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(22) 05.09.2017	(32) 27.03.2018	HOSE
(54) PLASTICIZER COMPOSITION AND	(33) World Intellectual Property Office (WIPO)	(73) The Yokohama Rubber Co., Ltd.
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SAME	C08J 5/18	(31) 2019048804
(73) LG Chem, Ltd.	D06C 15/00	(32) 15.03.2019
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	(33) Finland	TRNKA, Tomá

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AND TIRE	(72) BÖRGER, Volker	(51) C08L 23/06
(73) Sumitomo Rubber Industries, Ltd.	BECKER, Dörte	(11) EP3545034
(72) MATSUMOTO, Norihiro	KLOSE, Theresia	(21) EP17811869.1
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(72) UCHIDE, Chihiro	MOLDED BODY	(21) EP18708881.0
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B60C 1/00	(21) EP15896693.7	C08L 23/14
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Koehler Innovation & Technology GmbH	YING, Lei	MONOLAYER AND MULTILAYER FILMS
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M-I Drilling Fluids UK Limited	(51) C09K 11/02	C07D 311/82
(72) MOHAMMED, Musarrat Halima	H01L 33/50	C07D 219/06
GREENWELL, Hugh Christopher	C09K 11/88	C07D 401/04
WHITING, Andrew	C09K 11/70	C07D 311/30
VEERABHADRAPPA, Manohara Gudiyor	C09K 11/06	C07C 255/36
ALABEDI, Gasan Selman	C09K 11/56	C07C 255/58
HODDER, Michael Hayward	(11) EP3630918	C07D 211/86
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C04B 28/02	COMPRISING ENCAPSULATED	(22) 24.08.2018
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C09K 8/467	THEREOF	(73) Japan Science and Technology Agency
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(54) LUMINESCENT COMPOUND,	22.09.2017	(73) Aledia
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(72) Choi, Su-Na	United States of America	(72) ABOULAICH, Abdelhay
Song, In-Bum	United States of America	CHADEYRON, Geneviève
Seo, Jeong-Dae	United States of America	MAHIOU, Rachid
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CRYSTAL DISPLAYS	(32) 01.08.2013	STABILITY
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DEING, Kaja Christina	C10L 1/00	(31) 201816000362
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(22) 03.06.2019	REYES, Jeremy Chris	(22) 16.05.2019
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(73) Merck Patent GmbH	CUMMINS, Clark H.	(73) Shell Internationale Research
(72) GREINERT, Nils	WINNIFORD, William L.	Maatschappij B.V.
BREMER, Matthias	(31) 201862652944 P	(72) KITAGAWA, Mai
SUESS, Patrick	(32) 05.04.2018	KANEKO, Hiroshi
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MAUER, Werner	C10N 30/06	(51) C10M 159/22
TAPPE, Kathrin	C10N 40/25	C10N 10/04
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(73) Linde GmbH	(47) 19.04.2023	WAN, Xinshui

ZHOU, Liqiang	(73) Sunrui Marine Environment Engineering Co., Ltd.	(51) C11D 3/00
WANG, Shiping		C11D 3/37
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C10N 70/00	C11D 17/00	POLYALKYLENE GLYCOL, AN
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(73) Infineum International Limited	A61Q 19/10	HERMIE, Marina Jozefa
(72) Woodward, Philip James	C11D 1/14	AHIRWAL, Deepak
Marsh, Adam	C11D 1/22	TINLIN, James Robert
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COMPOSITION	(73) Colgate-Palmolive Company	A01N 25/04
(73) The Lubrizol Corporation	(72) ZUNIGA, Arturo	A01N 25/30
(72) COOK, Stephen J.	BENTOSA, Claudia	(11) EP3728541
HORN, Natasha K.	PENA, Henry	(21) EP18892787.5
CARNEY, Shaun P.	(51) C11D 1/66	(47) 10.05.2023
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A23L 27/10	(73) Unilever IP Holdings B.V.	(32) 20.12.2017
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C11D 3/28	(22) 09.03.2017	ROBERTS, Geriant, Paul
C11D 11/00	(54) ENHANCED SOLUBILIZATION USING A	(31) 17155863
(11) EP3299075	COMBINATION OF EXTENDED CHAIN	(32) 13.02.2017
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(73) Clariant International Ltd	B22F 12/53	(31) 15162228
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C12C 13/10	(73) T&R Biofab Co., Ltd.	27.02.2020
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(47) 19.04.2023	SHIM, Jinhyung	(73) National Institute of Advanced Industrial Science and Technology
(22) 27.06.2018	YUN, Wonsoo	(72) TAKAYAMA, Yuzo
(54) BEVERAGE MAKER	KANG, Donggu	KIDA, Yasuyuki
(73) LG Electronics Inc.	(31) 20160040059	(31) 2018157466
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Yoon, Shic	(33) Korea (Republic)	(33) Japan
Lee, Daewoong	(51) C12M 1/36	(51) C12N 5/10
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AND MOTOR USING THIN STRIP	(72) KANEKO, Hiroshi	19.07.2018
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METHOD THEREFOR	ZINC IN ZINC POT FOR HOT-DIP	(72) STROCK, Christopher W.
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C23C 8/26	YANG, Bing	(21) EP20714530.1
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C23C 16/455	H05K 3/24	HELMREICH, Thomas
C23C 16/458	(11) EP3800277	ROSIWAL, Stefan
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FOIL, CURRENT COLLECTOR,	YI-CHERNG, FERNG	D01F 1/02
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SECONDARY BATTERY COMPRISING	SHUN-YI, JIAN	D01F 6/46
ELECTROLYTIC COPPER FOIL	MING-HSIEN, LIN	D01F 6/62
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C25D 17/12	(72) ING, Visal	MUKAI, Kenta
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(47) 10.05.2023	(47) 19.04.2023	(73) Bolymedia Holdings Co. Ltd.
(22) 06.06.2018	(87) US2019050172	(72) HU, Xiaoping
(54) DAMPING DEVICE FOR ONSHORE	19.03.2020	(51) F03G 7/00
AND OFFSHORE WIND TURBINES	(22) 09.09.2019	B01D 61/00
(73) General Electric Company	(54) ENERGY AUDIT TOOL FOR A WIND	(11) EP3987180
(72) RODRIGUEZ TSOUROUKDISSIAN,	TURBINE POWER SYSTEM	(21) EP20826057.0
Arturo	(73) General Electric Company	(47) 19.04.2023

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(22) 10.03.2020	(22) 21.07.2020	(51) F04B 35/01
(54) A SYSTEM WHICH GENERATES ELECTRICITY BY USING HUMIDITY IN AIR	(54) HYDRAULIC COMPRESSED MEDIUM SUPPLY ASSEMBLY FOR A MOBILE WORKING MACHINE AND METHOD	F04B 35/04
(73) REPG ENERJI SISTEMLERI SAN. VE TIC. A.S.	(73) Robert Bosch GmbH	F04B 39/12
(72) AYARTURK, Hasan	(72) Wang, Ximing	F04B 45/04
(31) 201909195	An, Minha	F04B 39/00
(32) 20.06.2019	Brand, Michael	F04B 45/047
(33) Turkey	Tetik, Salih	(11) EP3271581
(51) F03G 7/06	Muehlbauer, Florian	(21) EP16709939.9
(11) EP4081711	(31) 102019219451	(47) 10.05.2023
(21) EP22707721.1	102019120329	(87) EP2016055556
(47) 19.04.2023	(32) 12.12.2019	29.09.2016
(87) EP2022054601	26.07.2019	(22) 15.03.2016
09.09.2022	(33) Germany	(54) MOTOR/PUMP UNIT HAVING A SINGLE ELASTIC DIAPHRAGM
(22) 24.02.2022	Germany	(73) Continental Automotive Technologies GmbH
(54) ASYMMETRIC BISTABLE SHAPE MEMORY ALLOY INERTIAL ACTUATOR	(51) F04B 17/03	(72) KREBS, Stephan
(73) Saes Getters S.p.A.	F04B 17/06	JÜRGING, Michael
(72) CITRO, Marco	F04B 23/02	RÜFFER, Manfred
COCO, Salvatore	F04B 49/06	KREH, Heinrich
ALACQUA, Stefano	(11) EP3789612	BACHER, Jens
(31) 202100004859	(21) EP20194093.9	TOQUERO, Ricardo
(32) 02.03.2021	(47) 19.04.2023	GONZALEZ, Jose
(33) Italy	(22) 02.09.2020	NIEPENBERG, Marcel
(51) F03G 7/06	(54) PORTABLE, BATTERY-POWERED HYDRAULIC UNIT FOR HYDRAULIC RESCUE EQUIPMENT	MILISIC, Lazar
G02B 7/02	(73) Weber-Hydraulik GmbH	PETZOLD, Falk
G02B 7/04	(72) INFANGER, Stefan	KOPPEL, Hans-Michael
G02B 27/64	(31) 507842019	WIEBE, Paul
G03B 3/10	(32) 06.09.2019	BREITKOPF, Martina
(11) EP3755903	(33) Austria	OEFFNER, Thomas
(21) EP19708644.0	(51) F04B 17/04	MESSNER, Adrian
(47) 19.04.2023	F04B 43/04	MEYER, Ulrike
(87) GB2019050502	F04B 49/06	IMHOF, Stefan
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(22) 25.02.2019	(21) EP18194452.1	(31) 102015205059
(54) ASYMMETRIC SMA ACTUATOR	(47) 10.05.2023	(32) 20.03.2015
(73) Cambridge Mechatronics Limited	(22) 14.09.2018	(33) Germany
(72) BROWN, Andrew Benjamin Simpson	(54) PUMP, AND CORRESPONDING CONTROL METHOD	(51) F04B 35/04
BURBRIDGE, Daniel John	(73) Robertshaw Italy S.r.L.	F04B 31/00
ARMSTRONG, Samuel	(72) Scaffetti, Stefano	F04B 25/02
LANGHORNE, Robert	Verzeroli, Marco	F04B 49/06
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(32) 23.02.2018	(31) 201700103749	(21) EP18869166.1
(33) United Kingdom	(32) 15.09.2017	(47) 19.04.2023
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F04B 53/16	F04B 53/20	(73) Gas Technology Institute Board Of Regents, The University Of Texas System
(11) EP3670904	(11) EP3715631	(72) STAIR, Jason
(21) EP19218629.4	(21) EP20162562.1	LINDSAY, Anthony
(47) 10.05.2023	(47) 10.05.2023	LEWIS, Michael
(22) 20.12.2019	(22) 12.03.2020	ZOWARKA, Raymond
(54) A PUMPING DEVICE	(54) METHOD FOR OPERATING A DOSING PUMP	PRATAP, Siddharth
(73) Leuco S.p.A.	(73) Eberspächer Climate Control Systems GmbH	HEARN, Clay
(72) DALL'ASTA, Dario	(72) Keefer, Jörg	PENNEY, Charles
(31) 201800020389	(31) 102019109384	WORTHINGTON, Michael
(32) 20.12.2018	102019107900	LIU, Hsing-Pang
(33) Italy	(32) 10.04.2019	(31) 201715785963
(51) F04B 1/295	27.03.2019	(32) 17.10.2017
F04B 1/32	(33) Germany	(33) United States of America
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(11) EP3812585	MILLER, James, H.	(54) CYLINDER HEAD ASSEMBLY,
(21) EP20203527.5	FLETCHER, David, E.	COMPRESSOR AND REFRIGERATION
(47) 19.04.2023	GRAICHEN, Brian, M.	DEVICE
(22) 23.10.2020	(31) 201762561249 P	(73) Wanbao Group Compressor Co., Ltd.
(54) LINEAR COMPRESSOR	(32) 21.09.2017	(72) CHEN, Huiping
(73) LG Electronics Inc.	(33) United States of America	CHEN, Zhonghua
(72) SON, Sangik	(51) F04B 37/08	WU, Xiaoling
KIM, Youngpil	F04B 53/16	QUI, Shixue
LEE, Kyungmin	(11) EP3120021	(31) 201910898938
JEON, Wooju	(21) EP15764653.0	(32) 23.09.2019
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12.12.2019	(33) United States of America	(54) NON-PULSATING PUMP
(22) 28.05.2019	United States of America	(73) Nikkiso Co., Ltd.
(54) METHOD OF ASSEMBLY OF A	(51) F04B 39/00	(72) MURAKOSHI, Fusao
CONTROL CARD	B60P 3/20	(31) 2018061702
(73) Arçelik Anonim Sirketi	F01C 21/00	(32) 28.03.2018
(72) GUNAYDIN, Metin	F04B 39/14	(33) Japan
OZKAN, Erkan	(11) EP3686429	(51) F04B 43/067
BATUR, Yasin	(21) EP18859687.8	F04B 43/073
(31) 201808141	(47) 19.04.2023	F04B 49/08
(32) 08.06.2018	(87) JP2018035181	F04B 49/22
(33) Turkey	28.03.2019	(11) EP4124755
(51) F04B 35/04	(22) 21.09.2018	(21) EP21187816.0
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(11) EP3660305	MACHINE	(22) 26.07.2021
(21) EP19212312.3	(73) Mitsubishi Heavy Industries Thermal	(54) A MEMBRANE-BASED PISTON PUMP
(47) 10.05.2023	Systems, Ltd.	AND A HOMOGENISING APPARATUS
(22) 28.11.2019	(72) TAKAHASHI, Wataru	COMPRIHING THE MEMBRANE-
(54) ELECTRICAL GROUNDING	KAI, Masakazu	BASED PISTON PUMP
ASSEMBLY ARRANGEMENT FOR	HOKAZONO, Toshiyuki	(73) GEA Mechanical Equipment Italia S.p.A.
RECIPROCATING COMPRESSOR	(31) 2017182632	(72) FONTANESI, Filippo
(73) NIDEC GLOBAL APPLIANCE BRASIL	(32) 22.09.2017	FOLEZZANI, Matteo
LTDA.	(33) Japan	BENASSI, Massimiliano
(72) MALON, Vagner Roberto	(51) F04B 39/04	(51) F04B 43/12
SANTOS, Marcelo Alessandro	F04C 18/02	F04B 53/16
RECH, Rafael Burg	F04C 29/02	F04B 53/22
(31) 102018074738	F04B 39/02	(11) EP3875763
(32) 29.11.2018	F04B 39/16	(21) EP21160171.1
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F04F 5/14	(87) JP2018004769	HEAD
F04F 5/20	23.08.2018	(73) Masterflex, LLC
F04F 5/44	(22) 13.02.2018	(72) VAN STELL, James
F04B 39/12	(54) COMPRESSOR	(31) 202117178626
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(54) SOLENOID ACTIVATED VACUUM	(21) EP20838870.2	(11) EP3924624
PUMP FOR AN ENGINE SYSTEM AND	(47) 10.05.2023	(21) EP19817281.9
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(73) Dayco IP Holdings, LLC	01.04.2021	(87) EP2019084161

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(22) 09.12.2019	(51) F04C 29/00	(33) Japan
(54) ELECTRICAL SCREW SPINDLE COOLANT PUMP	F01C 1/344	(51) F04D 3/00
(73) NIDEC GPM GmbH	F01C 21/06	F04D 29/18
(72) DÖHLER, Daniel	F04C 23/02	F04D 29/24
PAWELLEK, Franz	F25B 1/00	(11) EP3441616
(31) 102019103470	F25B 27/00	(21) EP18195089.0
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(51) F04C 2/18	(47) 10.05.2023	(54) COMPRESSIBLE ROTOR FOR A FLUID PUMP
F04C 13/00	(87) IB2018060700	(73) ECP Entwicklungsgesellschaft mbH
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F01C 19/00	(22) 28.12.2018	Scheckel, Mario
F04C 2/16	(54) ENERGY RECOVERY CIRCUIT FROM A THERMAL SOURCE AND RELATED ENERGY RECOVERY METHOD	Schlicht, Henning
F04C 13/00	(73) ING. ENEA MATTEI S.p.A.	(51) F04D 7/04
(11) EP3364034	(72) CONTALDI, Giulio	F04D 29/02
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(72) ONIMATSU Hiroyuki	(21) EP20156897.9	(87) EP2018000273
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ISHIHARA Noboru	(54) AIR COMPRESSION DEVICE	(54) PUMP IMPELLER
NAKAO Naoyasu	(73) Nabtesco Corporation	(73) WILO SE
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(33) Japan	KAWABATA, Keita	NETSCH, Volker
(51) F04C 2/344	TANAKA, Genpei	BERGER, Christian
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F01C 21/10	(32) 12.02.2019	KRETSCHMER, Bernd
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(33) Japan	(54) HERMETIC COMPRESSOR AND REFRIGERATION CYCLE APPARATUS	(21) EP16784932.2
(51) F04C 18/02	(73) Toshiba Carrier Corporation	(47) 10.05.2023
F01C 1/02	(72) HIRAYAMA, Takuya	(87) EP2016075561
F04C 27/00	KIMURA, Shigeki	18.05.2017
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(47) 19.04.2023	(51) F04C 29/12	(72) TORKILDSEN, Bernt-Helge
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(54) SCROLL FLUID MACHINE AND SCROLL MEMBER USED THEREIN	(21) EP19835101.7	(51) F04D 25/06
(73) MITSUBISHI HEAVY INDUSTRIES THERMAL SYSTEMS, LTD.	(47) 19.04.2023	F04D 25/08
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(73) Mitsubishi Electric Corporation	(54) CENTRIFUGAL FAN, AND AIR CONDITIONER PROVIDED WITH CENTRIFUGAL FAN	(33) Germany
(72) TSUCHIDA, Kazuchika	(73) Daikin Industries, Ltd.	(51) F04D 29/58
ADACHI, Naho	(72) KASHIHARA, Takashi	F02B 39/00
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F04D 19/00	(47) 10.05.2023	(73) Robert Bosch GmbH
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A01G 20/47	(54) GAS TURBINE COMPRESSOR STAGE	BAEUERLE, Michael
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(73) Techtronic Outdoor Products Technology Limited	F04D 29/54	(11) EP3870859
(72) Chung, Koon For	(11) EP2823184	(21) EP18796398.8
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(11) EP3106673	(54) AXIAL FAN	(73) Pierburg Pump Technology GmbH
(21) EP16001289.4	(73) ZIEHL-ABEGG SE	(72) FINDEISEN, Alexander
(47) 10.05.2023	(72) SADI, Omar	ZACHER, Dr., Wolfgang
(22) 08.06.2016	GROSS, Andreas	(51) F04D 29/70
(54) FAN WITH AT LEAST ONE FAN WHEEL AND/OR FURTHER FAN PARTS AND METHOD FOR PRODUCING A FAN PART OF A FAN	ERNEMANN, Lothar	F04D 31/00
(73) ZIEHL-ABEGG SE	LÖRCHER, Frieder	E21B 47/00
(72) LÖRCHER, Frieder	(31) 102012004617	(11) EP3760879
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(51) F04D 29/16	F01P 5/02	(73) Equinor Energy AS
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F04D 19/02	A01D 46/26	BJØRGE, Tor
(11) EP4115090	F02B 63/02	UNDERBAKKE, Harald
(21) EP21707746.0	B25F 5/00	KIBSGAARD, Svend Tarald
(47) 10.05.2023	F04D 25/02	(51) F04F 5/16
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(73) Safran Aero Boosters SA	(22) 08.08.2019	(21) EP21173601.2
(72) HIERNAUX, Stéphane	(54) MOTORISED WORKING TOOL WITH REINFORCED COOLING FAN CASING	(47) 10.05.2023
(31) 202005140	(73) Andreas Stihl AG & Co. KG	(22) 12.05.2021
(32) 02.03.2020	(72) Sasse, Daniel	(54) BLOWER
(33) Belgium	Wolf, Günter	(73) LG Electronics Inc.
(51) F04D 29/28	(51) F04D 29/54	(72) Jung, Jaehyuk
F04D 29/62	F04D 29/66	Kim, Kidong
F24F 1/00	(11) EP2716916	Park, Hyungho
B29C 45/00	(21) EP13004754.1	Kim, Hoojin
F04D 29/02	(47) 10.05.2023	Jung, Haein
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(21) EP17741323.4	(54) VENTILATOR UNIT	Choi, Chiyoung
	(73) Ziehl-Abegg AG	
	(72) Gauss, Tobias	
	Lörcher, Frieder	
	Stephan, Michael	

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(32) 02.06.2020 02.06.2020 14.05.2020	(51) F15B 11/028 E02F 9/20 F15B 11/08	(31) 201900007091 (32) 22.05.2019 (33) Italy
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(72) STRÖM, Pär	(21) EP18873791.0	BÖTTCHER, Lars
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C03C 17/30	Torrubia Marco, Demetrio	LORENZON, Antonio
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KONISHI, Hirotsugu	HOUSEHOLD APPLIANCE	(72) BODEN, Sean
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(33) Japan	(54) OUTDOOR UNIT FOR AN AIR-	(51) F24F 5/00
(51) F24F 1/0003	CONDITIONING APPARATUS	F25B 5/04
F24F 1/0014	(73) Mitsubishi Electric Corporation	F25B 25/00
F24F 1/0033	(72) JINNAI, Hiroyuki	F25B 40/06
F24F 1/005	KUBONO, Toshiyuki	F25B 41/30
F24F 13/20	YANASE, Tomoya	F25B 41/39
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(22) 15.07.2016	F24F 1/22	CONTROL APPARATUS AND
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(73) Samsung Electronics Co., Ltd.	(21) EP19192518.9	(73) Guangdong Midea White Home
(72) LEE, Won Hee	(47) 10.05.2023	Appliance Technology Innovation Center
KIM, Jong Whal	(22) 20.08.2019	Co., Ltd.
KIM, Jin Gyun	(54) COOLING MODULE AND COOLING	Midea Group Co., Ltd.
YUN, Yeon seob	APPARATUS	(72) ZHOU, Hongliang
KWON, Jun Seok	(73) Panasonic Intellectual Property	YUE, Bao
KIM, Sung Jae	Management Co., Ltd.	LIU, Hecheng
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YOON, Sang Ki	(32) 13.09.2018	(51) F24F 6/06
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(54) EVAPORATING ASSEMBLY AND HUMIDIFIER	Korea (Republic)	(72) ASHINO, Masashi
(73) Beijing Xiaomi Mobile Software Co., Ltd. Beijing Smartmi Technology Co., Ltd.	(51) F24F 8/10	
(72) YUAN, Ziming	F24F 5/00	
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F24F 6/00	(22) 06.11.2019	F25B 13/00
C12M 1/02	(54) AIR CLEANER INCLUDING THERMOELECTRIC MODULE	F25B 47/02
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C12M 1/00	NO, Yanghwan	(21) EP17921872.2
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(22) 05.03.2018	(51) F24F 11/00	(73) Mitsubishi Electric Corporation
(54) HUMIDIFYING MODULE AND INCUBATOR OR AIR CONDITIONED CABINET WITH HUMIDIFYING MODULE AND METHOD FOR OPERATING A HUMIDIFYING MODULE	F25B 29/00	(72) SAKABE, Akinori
(73) Binder GmbH	F25B 49/02	KONDO, Masakazu
(72) Buschle, Jochen	F25B 41/00	(51) F24F 11/43
(31) 102017105892	(11) EP3516305	F24F 11/72
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(33) Germany	(47) 19.04.2023	F24F 11/81
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(73) Soler & Palau Research, S.L.	ISHIKAWA, Hideki	(72) KAWAZOE, Akitoshi
(72) Costa, Roger Madorell	KANEKO, Takashi	NAKAMURA, Satoru
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F24F 8/167	2016211649	
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F24F 8/98	2016209103	H02H 9/00
F04D 33/00	20170127725	(11) EP3565076
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(47) 10.05.2023	Japan	(72) CHENG, Shaojiang
(87) KR2019018337	Japan	WANG, Jun
02.07.2020	Korea (Republic)	YUAN, Benhai
(22) 23.12.2019	(51) F24F 11/30	SHI, Bin
(54) BLOWER AND AIR CONDITIONER HAVING THE SAME	F24F 7/007	(31) 201710648369
(73) Samsung Electronics Co., Ltd.	F24F 11/00	(32) 01.08.2017
(72) SATO, Seiji	F24F 11/64	(33) China
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KOIZUMI, Yoshiaki	(21) EP19206460.8	(54) SUBTERRANEAN BUFFER STORAGE
(31) PCT/JP2017/021995	(47) 19.04.2023	DEVICE AND METHOD FOR BUFFER
(32) 14.06.2017	(22) 31.10.2019	STORAGE IN A HEAT STORAGE
(33) World Intellectual Property Office (WIPO)	(54) METHOD FOR ADJUSTING THE	MEDIUM
(51) F24F 11/56	OPERATING STATE OF A CIRCUIT	(73) Korpan, Nikolai N.
F24F 11/63	COMPOSITE SYSTEM OF AN AIR	Palant, Volodymyr G.
F24F 11/30	TECHNICAL, PREFERABLY SPACE-AIR	(72) Korpan, Nikolai N.
G06N 5/04	TECHNICAL INSTALLATION	Palant, Volodymyr G.
F24F 110/64	(73) TROX GmbH	(51) F25B 1/00
F24F 130/10	(72) Hetzel, Georg	F04B 19/20
F24F 8/90	Engbers, Jan	F04B 37/00
F24F 11/54	(51) F24F 13/22	F25B 23/00
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(47) 19.04.2023	SHARPSTONE, Joseph	(72) PERRY, Michael L.
(87) KR2019000707	HAFFENDEN, Gary	(31) 201862694782 P
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METHOD FOR CONTROLLING THE	(51) F24F 13/22	F25B 5/02
SAME	B60H 1/00	F25B 9/00
(73) Samsung Electronics Co., Ltd.	B60H 1/32	F25B 9/08
(72) HUR, Jae Hun	(11) EP3690344	F25B 9/10
KO, Jae Kwon	(21) EP17926996.4	F25B 43/00
KWAK, Han Taek	(47) 19.04.2023	F25B 49/02
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(87) JP2019049791	ITOU, Kazuhide	OF OPERATING THE SAME.
23.07.2020	(51) F24H 1/18	(73) Heatcraft Refrigeration Products LLC
(22) 19.12.2019	F24D 19/10	(72) NAJAFIFARD, Fardis
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(73) Fujitsu General Limited	H02J 3/14	(32) 30.12.2016
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KITAJIMA, Masae	(47) 10.05.2023	F24F 13/24
KITAMI, Koichi	(87) JP2016075362	F24F 11/84
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(51) F24F 11/62	SYSTEM, SERVER, HOT WATER	(87) CN2018096155
F24F 120/00	SUPPLY CONTROL METHOD AND	07.02.2019
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(47) 10.05.2023	TODA, Akihiro	EXPANSION VALVES
(22) 22.12.2017	AKAGI, Satoshi	(73) Qingdao Haier Air-Conditioning
(54) METHOD FOR CONTROLLING A	ARAI, Takashi	Electronic Co., Ltd
HVAC-APPARATUS, CONTROL UNIT	(51) F24H 7/04	(72) WANG, Jun
AND USE OF A CONTROL UNIT	F28D 20/00	CHENG, Shaojiang
(73) Mitsubishi Electric Corporation	F28D 20/02	ZHUO, Baitian
(72) UNO, Yoshitaka	(11) EP3879201	ZHANG, Ruigang
(51) F24F 12/00	(21) EP20162379.0	SHAO, Wenjun

ZHANG, Wanying	(51) F25B 39/00	(33) China
SHI, Bin	F28F 9/02	(51) F25B 49/00
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(22) 16.12.2020	(22) 22.12.2017	FONTE, Nicolas
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(73) B/E Aerospace, Inc.	(73) Danfoss Micro Channel Heat Exchanger	(51) F25B 49/02
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SYSTEM	(54) REFRIGERATION CYCLE DEVICE	(33) Korea (Republic)
(73) MITSUBISHI ELECTRIC	(73) Mitsubishi Electric Corporation	(51) F25B 49/02
CORPORATION	(72) YANACHI, Satoru	F16K 15/00
(72) SUGA, Ikuro	MINAMISAKO, Hirokazu	F25B 13/00
(51) F25B 27/00	(51) F25B 45/00	F25B 1/10
F25B 17/08	F25B 49/02	F04B 49/24
F25D 31/00	(11) EP2492616	(11) EP3929508
(11) EP3532778	(21) EP10824578.8	(21) EP21169588.7
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(73) The Coca-Cola Company	(72) KAWABE, Yoshikazu	D'AGOSTINO, Alessandro
(72) ROEKENS, Jurgen	FUJITAKA, Akira	(31) 202000010126
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(54) METHOD OF MANAGING	(22) 21.06.2018	HAVING THE SAME
COMPRESSOR START FOR A	(54) DEFROSTING CONTROL METHOD	(73) LG Electronics Inc.
TRANSPORT REFRIGERATION	FOR MULTI-SPLIT SYSTEM	(72) KIM, Yonghyun
SYSTEM AND CORRESPONDING	(73) Qingdao Haier Air-Conditioning	HONG, Jinil
TRANSPORT REFRIGERATION	Electronic Co., Ltd	CHOI, Seungjin
SYSTEM	(72) ZHUO, Baitian	LEE, Seunggeun
(73) Carrier Corporation	SHI, Bin	(31) 20190088287
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(73) Arçelik Anonim Sirketi	(22) 18.03.2020	(51) F25D 17/04
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CANIGUR, Ibrahim	(73) Qingdao Haier Refrigerator Co., Ltd	(21) EP19798584.9
CALKAYA, Aysun	Haier Smart Home Co., Ltd.	(47) 10.05.2023
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F25C 1/04	JI, Lisheng	(73) Arçelik Anonim Sirketi
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(47) 19.04.2023	(32) 10.05.2019	KAYA, Metin
(22) 17.09.2018	(33) China	ALTINTAS, Mustafa
(54) ICE MAKER AND REFRIGERATOR INCLUDING THE SAME	(51) F25D 11/02	KALECI, Sinan
(73) LG Electronics Inc.	F25D 29/00	(31) 201818777
(72) LEE, Donghoon	F25D 25/00	(32) 06.12.2018
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LEE, Donghoon	(11) EP2593729	(51) F25D 17/04
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(54) TRANSPORT REFRIGERATION SYSTEM AND A CAN ID DISTRIBUTING METHOD FOR THE TRANSPORT REFRIGERATION SYSTEM	20100068466	LEE, Dae Sung
(73) Carrier Corporation	20100069287	HIROTO, Ohnari
(72) Mi, Tingcan	(32) 13.07.2010	TAKENOSHITA, Kazutoshi
Tian, Hai	15.07.2010	(31) 2018091524
Cai, Siwei	15.07.2010	2017221243
(31) 201911355013	15.07.2010	20180114136
(32) 25.12.2019	19.07.2010	(32) 10.05.2018
(33) China	(33) Korea (Republic)	16.11.2017
	Korea (Republic)	21.09.2018
	Korea (Republic)	(33) Japan
	Korea (Republic)	Japan
	(51) F25D 15/00	

Korea (Republic)	20200043017	(21) EP16170849.0
(51) F25D 17/06	(32) 08.04.2020	(47) 19.04.2023
F25D 21/04	08.04.2020	(22) 23.05.2016
(11) EP3887734	(33) Korea (Republic)	(54) REFRIGERATION DEVICE
(21) EP19798577.3	Korea (Republic)	(73) BSH Hausgeräte GmbH
(47) 10.05.2023	(51) F25D 23/02	(72) Cai, Junsheng
(87) EP2019079963	(11) EP3779337	Huang, Lulu
04.06.2020	(21) EP20197955.6	Wang, Tieniu
(22) 01.11.2019	(47) 10.05.2023	Zhou, Zhanhong
(54) A COOLING DEVICE WHEREIN	(22) 13.06.2008	(31) 201510310469
THE FROST FORMATION IN THE	(54) SIDE-BY-SIDE REFRIGERATOR	(32) 08.06.2015
FREEZING COMPARTMENT IS	COMPRISING A DOOR OPENING	(33) China
PREVENTED	DEVICE	(51) F25D 23/06
(73) Arçelik Anonim Sirketi	(73) Samsung Electronics Co., Ltd.	F16L 59/06
(72) AKDEMİR, Alper	(72) Seo, Yong Man	B65G 65/46
ERKEY, Can	(31) 20080003319	(11) EP3701205
KAYA, Metin	(32) 11.01.2008	(21) EP17929486.3
ALTINTAS, Mustafa	(33) Korea (Republic)	(47) 19.04.2023
KALECI, Sinan	(51) F25D 23/02	(87) US2017058529
(31) 201817819	E06B 7/16	02.05.2019
(32) 26.11.2018	(11) EP3779336	(22) 26.10.2017
(33) Turkey	(21) EP19802846.6	(54) VACUUM ASSISTED AND HEATED
(51) F25D 23/00	(47) 10.05.2023	AUGER FEEDER FOR ACHIEVING
F25D 21/14	(87) KR2019005424	HIGHER PACKING EFFICIENCY OF
(11) EP3945271	21.11.2019	POWDER INSULATION MATERIALS IN
(21) EP21188212.1	(22) 07.05.2019	VACUUM INSULATED STRUCTURES
(47) 10.05.2023	(54) REFRIGERATOR	AND METHOD FOR DRYING AND
(22) 28.07.2021	(73) Samsung Electronics Co., Ltd.	LOADING AN INSULATION MATERIAL
(54) A COOLING DEVICE	(72) CHOI, Nam Gu	(73) Whirlpool Corporation
(73) Arçelik Anonim Sirketi	LEE, Sun Gyou	(72) NAIK, Abhay
(72) ATAKURU, Seren	RYU, Sang Chul	NIGAM, Ashish
TASKIN, Mert Can	JUNG, Sang Gyu	(51) F25D 23/06
ERDOGAN, Koray	(31) 20180056133	F16L 59/06
ATSIZ, Tayfun	(32) 16.05.2018	F16B 11/00
KARAKAYA, Erkan	(33) Korea (Republic)	F25D 23/02
(31) 202012072	(51) F25D 23/02	B32B 3/04
(32) 29.07.2020	F25D 17/04	B32B 3/08
(33) Turkey	F25D 23/04	(11) EP3589903
(51) F25D 23/02	(11) EP3674632	(21) EP17898820.0
(11) EP3839386	(21) EP19212563.1	(47) 19.04.2023
(21) EP20210982.3	(47) 19.04.2023	(87) US2017019930
(47) 10.05.2023	(22) 29.11.2019	07.09.2018
(22) 01.12.2020	(54) REFRIGERATOR	(22) 28.02.2017
(54) REFRIGERATOR DOOR AND	(73) LG Electronics Inc.	(54) METHOD FOR RAPID
MANUFACTURING METHOD THEREOF	(72) YU, Seonil	ENCAPSULATION OF A CORNER GAP
(73) LG Electronics Inc.	LEE, Daesung	DEFINED WITHIN A CORNER OF A
(72) KIM, Jonggoo	HEO, Junyi	DOOR PANEL FOR AN APPLIANCE
KIM, Taeyoung	(31) 20180169259	(73) Whirlpool Corporation
OH, Kisoo	(32) 26.12.2018	(72) ALLARD, Paul B.
KANG, ChangJu	(33) Korea (Republic)	FRATTINI, Gustavo
CHO, Hyunkeun	(51) F25D 23/02	LIU, Hua
(31) 20190169663	F25D 23/06	(51) F25D 23/06
(32) 18.12.2019	(11) EP3715750	F16L 59/065
(33) Korea (Republic)	(21) EP20157037.1	(11) EP3559570
(51) F25D 23/02	(47) 19.04.2023	(21) EP16924767.3
(11) EP4008982	(22) 12.02.2020	(47) 19.04.2023
(21) EP22153645.1	(54) VACUUM INSULATION ASSEMBLY	(87) US2016068505
(47) 19.04.2023	FOR AN APPLIANCE	28.06.2018
(22) 27.01.2021	(73) Whirlpool Corporation	(22) 23.12.2016
(54) REFRIGERATOR	(72) Ekshinge, Sunil S.	(54) VACUUM INSULATED PANEL FOR
(73) Samsung Electronics Co., Ltd.	Nunes, Rafael D.	COUNTERACTING VACUUM BOW
(72) Park, Sungdeuk	Pathak, Sanjesh Kumar	INDUCED DEFORMATIONS
Kwon, Youngmin	(31) 201916362963	(73) Whirlpool Corporation
Nam, Jeongman	(32) 25.03.2019	(72) DHERDE, Eric J.
Kim, Seongwoo	(33) United States of America	WESTLAKE, Lorraine J.
Yoon, Seungho	(51) F25D 23/04	(51) F25D 23/06
Jeong, Hojun	(11) EP3104106	F16L 59/065
(31) 20200152722		(11) EP3571452

(21) EP17892435.3	(22) 07.12.2020	(11) EP3677861
(47) 19.04.2023	(54) REFRIGERATOR	(21) EP19219262.3
(87) US2017013940	(73) Whirlpool Corporation	(47) 10.05.2023
26.07.2018	(72) Marinello, Giulia	(22) 23.12.2019
(22) 18.01.2017	Nunes, Rafael D.	(54) HOME APPLIANCE AND CONTROL
(54) USE OF LOOPED CONDUITS FOR	Pathak, Sanjesh Kumar	METHOD THEREOF
ACHIEVING FASTER VACUUM	Sambrekar, Manoj T.	(73) Samsung Electronics Co., Ltd.
EVACUATION TIME IN VACUUM	Vijay, Arpit	(72) PARK, Yongjae
INSULATED STRUCTURES	(31) 201916718269	JO, Kyuho
(73) Whirlpool Corporation	(32) 18.12.2019	YUN, Soyoung
(72) NAIK, Abhay	(33) United States of America	LEE, Munkeun
SHANNIGRAHI, Subrata	(51) F25D 23/08	HONG, JooHwan
FRATTINI, Gustavo	(11) EP3633295	(31) 20190001398
(51) F25D 23/06	(21) EP19196110.1	(32) 04.01.2019
F16L 59/065	(47) 19.04.2023	(33) Korea (Republic)
F16L 59/04	(22) 09.09.2019	(51) F25D 29/00
(11) EP3615872	(54) FRIDGE AND/OR FREEZER	F25D 17/06
(21) EP17906833.3	(73) REHAU Industries SE & Co. KG	F25B 49/02
(47) 19.04.2023	(72) Brettmann, Matthias	(11) EP3649416
(87) US2017030094	Hörath, David	(21) EP18827636.4
01.11.2018	Michels, Peter	(47) 10.05.2023
(22) 28.04.2017	Pardos, Santiago	(87) KR2018007633
(54) STRUCTURAL CABINET FOR AN	Zielke, Peter	10.01.2019
APPLIANCE	(31) 202018105686 U	(22) 05.07.2018
(73) Whirlpool Corporation	(32) 04.10.2018	(54) REFRIGERATOR
(72) ERNAT, Nicole M.	(33) Germany	(73) LG Electronics Inc.
NIGAM, Ashish	(51) F25D 25/02	(72) AHN, Seunguk
(51) F25D 23/06	(11) EP3916329	KIM, Kyungseok
F25D 21/04	(21) EP21165078.3	CHAE, Sunam
F25D 23/08	(47) 19.04.2023	(31) 20170085555
F25D 23/02	(22) 25.03.2021	(32) 05.07.2017
(11) EP3452766	(54) APPLIANCE WITH A SHELF	(33) Korea (Republic)
(21) EP16901124.4	ASSEMBLY	(51) F25D 29/00
(47) 19.04.2023	(73) Whirlpool Corporation	F25D 17/06
(87) US2016030547	(72) Lam, Prasanth A.	F25D 11/02
09.11.2017	Bichakar, Vijaya Hanamant	F25B 49/02
(22) 03.05.2016	Maity, Ratul	(11) EP2142870
(54) REFRIGERATOR APPLIANCE WITH A	Muthamilan, Mukesh	(21) EP08723431.6
VACUUM INSULATION AND A HINGE	Pabhu, Hrushikesh C.	(47) 10.05.2023
SUPPORT	(31) 202016883851	(87) KR2008001394
(73) Whirlpool Corporation	(32) 26.05.2020	09.10.2008
(72) DHERDE, Eric J.	(33) United States of America	(22) 12.03.2008
FIORI, Michael A.	(51) F25D 25/02	(54) REFRIGERATOR AND METHOD OF
HUNTER, Lynne F.	(11) EP3764038	CONTROLLING THE SAME
(51) F25D 23/06	(21) EP19199556.2	(73) LG Electronics Inc.
F25D 23/02	(47) 10.05.2023	(72) SUNG, Ji Won
F25D 19/00	(22) 25.09.2019	CHUN, Chan Ho
F16L 59/06	(54) REFRIGERATOR	EOM, Yong Hwan
(11) EP3332188	(73) LG ELECTRONICS INC.	(31) 20070031661
(21) EP16833313.6	(72) Kim, Jinsung	(32) 30.03.2007
(47) 10.05.2023	(31) 20190084453	(33) Korea (Republic)
(87) KR2016008470	(32) 12.07.2019	(51) F25J 3/04
09.02.2017	(33) Korea (Republic)	B01D 53/10
(22) 01.08.2016	(51) F25D 25/02	C01B 23/00
(54) VACUUM ADIABATIC BODY,	F25D 17/04	B01D 15/02
FABRICATION METHOD FOR THE	(11) EP3764045	B01D 3/34
VACUUM ADIABATIC BODY	(21) EP19199629.7	B01D 3/14
(73) LG Electronics Inc.	(47) 10.05.2023	(11) EP3875876
(72) JUNG, Wonyeong	(22) 25.09.2019	(21) EP21158454.5
YOUN, Deokhyun	(54) REFRIGERATOR HAVING DRAWER	(47) 19.04.2023
(31) 20150109726	TYPE DOOR	(22) 22.02.2021
(32) 03.08.2015	(73) LG ELECTRONICS INC.	(54) METHOD AND DEVICE FOR
(33) Korea (Republic)	(72) CHOI, Kwang Hyun	ADSORPTIVE DISTILLATION FOR
(51) F25D 23/06	(31) 20190084447	CRYOGENIC SEPARATION OF ARGON
F25D 23/08	(32) 12.07.2019	AND OXYGEN
(11) EP3839387	(33) Korea (Republic)	(73) L'AIR LIQUIDE, SOCIETE ANONYME
(21) EP20212330.3	(51) F25D 29/00	POUR L'ETUDE ET L'EXPLOITATION
(47) 19.04.2023		DES PROCEDES GEORGES CLAUDE

(72) KOFMAN, Nicolas BEDNARSKI, David SAULNIER, Bernard CARDON, Guillaume WATTIAU, Mikael	(47) 10.05.2023 (87) KR2019016101 04.06.2020 (22) 22.11.2019 (54) FLUIDIZED BED FURNACE (73) POSCO Co., Ltd (72) KO, Chang Kuk SHIN, Myoung Kyun	(54) HEAT EXCHANGER ARRANGEMENT, METHOD FOR PRODUCING A HEAT EXCHANGER ARRANGEMENT AND USE OF A HEAT EXCHANGER ARRANGEMENT (73) Pfannenberg GmbH (72) Fuller, Russell Starp, Peter
(31) 2002143 (32) 03.03.2020 (33) France	(31) 20180147506 (32) 26.11.2018 (33) Korea (Republic)	(51) F28D 3/00 F28F 3/02 F25D 31/00 F28D 21/00 F28D 20/00
(51) F26B 3/06 C02F 11/12 F26B 5/08 F26B 7/00 F26B 3/12	(31) EP3745068 F28F 7/02 F28F 13/00 F28D 21/00 B23P 15/26 B33Y 10/00 B33Y 80/00	(11) EP3519751 (21) EP17857382.0 (47) 19.04.2023 (87) US2017053875 05.04.2018
(11) EP3814708 (21) EP18742919.6 (47) 19.04.2023 (87) DK2018050172 02.01.2020	(22) 28.06.2018	(22) 28.09.2017
(54) A DRYER AND A METHOD FOR DRYING A LIQUID FEED INTO A POWDER (73) GEA Process Engineering A/S (72) DAW, Zahé AAGAARD, Poul-Erik LEAR, Alexander William	(11) EP3745068 (21) EP20150686.2 (47) 10.05.2023 (22) 08.01.2020 (54) COLD PLATE AND A METHOD OF MANUFACTURE THEREOF (73) AEM Singapore PTE Ltd (72) CHAN, See Jean WANG, Zhao Meng	(54) SYSTEMS FOR COOLING ONE OR MORE BEVERAGE COMPONENTS WITH A PLATE FIN HEAT EXCHANGER (73) The Coca-Cola Company (72) GAN, Mingfei WELCH, Dick P. RUDICK, Arthur G.
(51) F26B 3/06 F26B 17/12 F26B 25/12	(31) 10201904782 (32) 27.05.2019 (33) Singapore	(31) 201762451403 P 201662400760 P (32) 27.01.2017 28.09.2016 (33) United States of America United States of America
(11) EP3421914 (21) EP17382416.0 (47) 10.05.2023 (22) 29.06.2017 (54) VERTICAL DRYER (73) Suez International (72) Permuy Dobarro, Juan Prats Prats, Néstor	(31) F28D 1/04 F25B 39/00 F28F 1/22 F24F 13/30 F25B 39/04 F28D 1/02 F28D 1/047 F28F 9/02	(51) F28D 9/00 F25B 39/02 F28F 9/02 F28D 21/00 F28F 3/08 F25B 41/30 F25B 41/39
(51) F26B 21/00 B08B 9/00 B65D 1/09 F17C 13/00 F26B 21/14 F26B 25/22 G01M 3/32	(11) EP3232148 (21) EP15866545.5 (47) 10.05.2023 (87) CN2015093042 16.06.2016 (22) 28.10.2015	(11) EP3792582 (21) EP20194341.2 (47) 19.04.2023 (22) 03.09.2020
(11) EP3686533 (21) EP20153742.0 (47) 19.04.2023 (22) 24.01.2020	(54) HEAT EXCHANGER, HEAT EXCHANGE MODULE, HEAT EXCHANGE DEVICE, AND HEAT SOURCE UNIT (73) Danfoss Micro Channel Heat Exchanger (Jiaxing) Co., Ltd (72) LU, Xiangxun YANG, Jing CHEN, Hongbing	(54) A METHOD FOR HOMOGENIZING A REFRIGERANT FLUID FLOW WITHIN A PLATE HEAT EXCHANGER PROVIDED WITH A REFRIGERANT INLET COLLECTOR WITH A CALIBRATED ORIFICE (73) DENSO THERMAL SYSTEMS S.p.A. (72) FUCA', Andrea (31) 201900016244 (32) 13.09.2019 (33) Italy
(54) SYSTEM AND METHOD FOR DRYING AND ANALYTICAL TESTING OF CONTAINERS (73) Versum Materials US, LLC (72) BERNARD, Matthew David MCDERMOTT, Wayne Thomas HOPKINS, Allison Barbeau SIEMER, Joseph J. PINGITORE, Michael Altschul	(31) 201420783711 U (32) 11.12.2014 (33) China	(51) F28D 9/00 F28F 3/04
(31) 201916255923 (32) 24.01.2019 (33) United States of America	(51) F28D 1/04 F28F 1/12 F28F 1/14 F28F 1/24 F28D 7/00 F28F 9/22 F28F 13/00	(11) EP3948134 (21) EP20711552.8 (47) 19.04.2023 (87) EP2020056479 08.10.2020 (22) 11.03.2020
(51) F27B 15/02 C21B 13/00 F27B 15/08 F27B 15/09 F27B 15/10 C21B 13/02	(11) EP3722720 (21) EP19168012.3 (47) 10.05.2023 (22) 09.04.2019	(54) A HEAT EXCHANGER PLATE, AND A PLATE HEAT EXCHANGER (73) Alfa Laval Corporate AB (72) GUSTAFSSON, Jörgen (31) 1950410 (32) 03.04.2019
(11) EP3889532 (21) EP19889794.4		

(33) Sweden	(32) 08.02.2019	(33) Japan
(51) F28D 9/00	23.03.2018	(51) F28F 9/02
F28F 3/04	(33) United States of America	F28D 7/16
F28F 3/08	United States of America	(11) EP3577408
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(47) 10.05.2023	F28F 1/00	(87) FR2018050225
(22) 15.12.2020	F28F 1/02	09.08.2018
(54) HEAT TRANSFER PLATE	(11) EP3521746	(22) 31.01.2018
(73) Alfa Laval Corporate AB	(21) EP18461516.9	(54) HEAT EXCHANGER HEADER
(72) HEDBERG, Magnus	(47) 19.04.2023	(73) Valeo Systemes Thermiques
(51) F28D 9/00	(22) 06.02.2018	(72) FUDALA, Andrzej
F28F 3/04	(54) A FLAT TUBE FOR A HEAT	ASRI, Mohamed
F28F 3/08	EXCHANGER	AZZOUZ, Kamel
(11) EP4015961	(73) Valeo Autosystemy SP. Z.O.O.	MALIK, Marcin
(21) EP20214277.4	(72) KOLACZ, Adam	KOLACZ, Adam
(47) 10.05.2023	POTOK, Dariusz	(31) 1750795
(22) 15.12.2020	CHLIPALA, Jacek	(32) 31.01.2017
(54) HEAT TRANSFER PLATE	BIENIEK, Robert	(33) France
(73) Alfa Laval Corporate AB	(51) F28F 3/08	(51) F28F 9/02
(72) HOLM, Martin	F28D 9/00	F28F 1/00
HEDBERG, Magnus	(11) EP3816566	(11) EP2650635
NILSSON, Johan	(21) EP18923906.4	(21) EP11846143.3
(51) F28D 15/02	(47) 19.04.2023	(47) 10.05.2023
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H01L 23/427	(22) 27.06.2018	(22) 09.05.2011
(11) EP3882553	(54) HEAT TRANSPORT DEVICE AND	(54) REFRIGERANT DISTRIBUTING
(21) EP21161145.4	METHOD FOR MANUFACTURING	DEVICE AND HEAT EXCHANGER WITH
(47) 19.04.2023	SAME	THE SAME
(22) 05.03.2021	(73) Welcon Inc.	(73) Sanhua (Hangzhou) Micro Channel Heat
(54) LOOP HEAT PIPE AND METHOD FOR	(72) SUZUKI, Yutaka	Exchanger Co. Ltd
MANUFACTURING LOOP HEAT PIPE	SAITO, Takashi	(72) GAO, Qiang
(73) SHINKO ELECTRIC INDUSTRIES CO.,	IKARASHI, Shingo	LI, Yanxing
LTD.	(51) F28F 7/02	HUANG, Ningjie
(72) MACHIDA, Yoshihiro	F28D 7/00	(31) 201010590176
(31) 2020046252	(11) EP3285039	(32) 08.12.2010
(32) 17.03.2020	(21) EP17186478.8	(33) China
(33) Japan	(47) 19.04.2023	(51) F28F 9/02
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F23L 15/04	(54) HEAT EXCHANGERS WITH MULTIPLE	B29C 45/14
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(47) 19.04.2023	(72) WENTLAND, William L.	F16J 15/02
(22) 13.12.2016	KARLEN, Eric	F16J 15/06
(54) ROTATION HEAT EXCHANGER SET	(31) 201615238513	(11) EP3577409
(73) Wolf GmbH	(32) 16.08.2016	(21) EP18705701.3
KASTT, SPOL. S.R.O.	(33) United States of America	(47) 19.04.2023
(72) TAJZLER, Petr	(51) F28F 9/02	(87) FR2018050226
RIEBESECKER, Richard	F24F 1/18	09.08.2018
(51) F28F 1/02	F25B 39/00	(22) 31.01.2018
F28F 1/26	F28D 1/053	(54) HEAT EXCHANGER COMPRISING A
(11) EP3553446	F28F 9/22	MAIN AND A SECONDARY GASKET
(21) EP19164153.9	(11) EP3767218	(73) Valeo Systemes Thermiques
(47) 10.05.2023	(21) EP19776093.7	(72) DAY, Alan
(22) 20.03.2019	(47) 10.05.2023	CLERGEON, Sébastien
(54) SHAPED LEADING EDGE OF CAST	(87) JP2019012199	(31) 1750794
PLATE FIN HEAT EXCHANGER	03.10.2019	(32) 31.01.2017
(73) Raytheon Technologies Corporation	(22) 22.03.2019	(33) France
(72) DISORI, Michael A.	(54) HEAT EXCHANGER AND AIR-	(51) F28G 7/00
STILLMAN, William P.	CONDITIONING DEVICE	(11) EP3994412
DIENER, Adam J.	(73) DAIKIN INDUSTRIES, LTD.	(21) EP20747014.7
BROULIDAKIS, Alexander	(72) HIROKAWA, Tomoki	(47) 19.04.2023
HYLAND, David J.	INOUE, Satoshi	(87) FR2020000196
STYBORSKI, Jeremy	YOSHIOKA, Shun	07.01.2021
(31) 201916271178	(31) 2018067324	(22) 30.06.2020
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(73) CNIM Environnement & Energie EPC	(51) F41G 3/04	(51) F42B 19/36
(72) MERLO, Nazim CASTILLO, Anthony	(11) EP3751226 (21) EP20178288.5 (47) 19.04.2023 (22) 04.06.2020	F42B 19/00 F41F 3/10 B63G 8/32 (11) EP3999801
(31) 1907293 (32) 01.07.2019 (33) France	(54) DIRCM WITH PREDICTIVE TRANSFER BETWEEN MODULES	(21) EP20743655.1 (47) 19.04.2023 (87) EP2020070295 21.01.2021
(51) F28G 15/00 G01B 21/08	(73) Diehl Defence GmbH & Co. KG (72) Regensburger, Martin (31) 102019004141 (32) 12.06.2019 (33) Germany	(22) 17.07.2020 (54) PROJECTILE LAUNCH DETECTOR, AND ASSOCIATED PROJECTILE AND LAUNCHER ASSEMBLY
(11) EP3771879 (21) EP20188739.5 (47) 19.04.2023 (22) 30.07.2020	(51) F42B 10/48 F42B 8/14	(73) Naval Group (72) DE SARRAN, Thibaut DEGUIN, Quentin NUYTEN, Pierre
(54) DEVICE FOR DETECTING AND CHARACTERISING CLOGGING LIKELY TO FORM IN A WALL SUBJECTED TO HEAT EXCHANGE	(11) EP3359909 (21) EP16785100.5 (47) 10.05.2023 (87) EP2016072900 13.04.2017	(31) 1908108 (32) 18.07.2019 (33) France
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(73) Guiller, Gael Gautier, Johann	(73) Rheinmetall Waffe Munition GmbH (72) STENZEL, Udo LITTE, Tobias	(22) 12.08.2020 (54) BLASTING SYSTEM AND METHOD (73) X Development LLC (72) TREAT, Neil David HUNT, Thomas Peter GONCHARUK, Artem DAVIS, Karen SAHNEY, Vikram Neal
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(73) Diehl Defence GmbH & Co. KG (72) Bittner, Markus	(73) Rheinmetall Waffe Munition GmbH (72) STENZEL, Udo LITTE, Tobias	(51) G01B 5/008 G01B 5/20 G01B 21/04 G01B 21/20 G01B 5/00

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(33) United Kingdom	(72) ACKLEY, H. Sprague	(73) G.D S.p.A.
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(51) G01B 5/20	(32) 15.06.2016	MORELLI, Sergio
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(51) G01B 7/02	(73) Bekaert Advanced Cords Aalter NV	(73) AMS Sensors Singapore Pte. Ltd.
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YU, Zhicheng	(73) Precitec GmbH & Co. KG	(73) QUALCOMM INCORPORATED
WANG, Hewen	(72) Strebel, Matthias	(72) LINDNER, Albrecht Johannes
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AND POSITION MEASUREMENT	THE DIAMETER AND/OR THE OUTER	MEASURING VEHICLE ALIGNMENT
METHOD	CONTOUR OF A STRAND-SHAPED	(73) NEXION S.p.A.
(73) Mitsubishi Electric Corporation	OBJECT	(72) CORGHI, Giulio
(72) DOMAE, Yukiyasu	(73) SIKORA AG	(31) 202000017578
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(72) DAILEY, Timothy	G01S 17/42	(51) G01C 21/16
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(33) Japan	(73) HRL Laboratories, LLC	(72) WANG, Nan
(51) G01C 7/04	(72) HUANG, Lian X.	SONG, Guifeng
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G01S 7/51	PERAHIÄ, Raviv	QIAN, Cheng
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(22) 03.10.2018	(33) United States of America	DEVICE
(54) ADAPTER FOR REMOTE READING OF	(51) G01D 5/20	(73) Mitsubishi Electric Corporation
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(73) Apator Powogaz Spolka Akcyjna	(11) EP3680623	FURUKAWA, Akira
(72) SZULC, Tomasz	(21) EP19209435.7	(51) G01D 5/245
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(22) 18.09.2017	(33) United States of America	HOLZAPFEL, Wolfgang
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(54) SINGLE CHANNEL	RETURN CORE IN A HOUSING CAVITY	(72) TAKADA, Hiroshi
MAGNETORESISTANCE-BASED	(73) Continental Automotive Technologies	YOSHIDA, Yasushi
ANGLE SENSOR	GmbH	MATSUTANI, Yasuhiro
(73) Allegro MicroSystems, LLC	(72) GRUNWALD, Frank	FURUKAWA, Daisuke
(72) ROMERO, Hernán D.	(31) 102018217517	INOUE, Ryo
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UNEQUALLY SPACED MAGNETIC	SCHELLER, Karl, P.	(72) YOSHIOKA Takamoto
FIELD SENSING ELEMENTS	DONOVAN, Mark, J.	KANNO Takayuki
(73) Allegro MicroSystems, LLC	(31) 201213526113	(31) 2019015921
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(72) MILLER, Mark Sherwood	(22) 19.10.2021	(72) KÜNZELMANN, Mario
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(72) ITO Takeshi	(21) EP13003422.6	(72) AUGHTON, David, John
KONO Yoshiyuki	(47) 10.05.2023	BISH, Gordon, John
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(72) BONELLO, Claudio	31.08.2017	YOGO Takayuki
GHIROTTTO, Manuel	(22) 26.02.2016	MIKI Takahiro
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(32) 12.03.2019	(73) Micro Motion, Inc.	ISOYA Yuki
(33) Italy	(72) SHEN, Kai	(31) 2015192505
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	(33) United States of America	SATO Ryo
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(54) FEED-THROUGH	F15D 1/02	COFFEE, COFFEE GRINDER AND
(73) Micro Motion, Inc.	G01F 5/00	COFFEE MACHINE COMPRISING
(72) MANSFIELD, William M. SHANAHAN, Shaun E. SOHM, Howard Irving Jr.	G01F 1/684 G01F 1/692	SUCH WEIGHING ASSEMBLY AND
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(73) United Benefit Corp.	(73) VEGA Grieshaber KG	HAFEEZ, Faran
(72) Chang, Yuan Hse	(72) WELLE, Roland BÖRSIG, Jörg WÄLDE, Steffen	ZHU, Li
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		FINFER, Daniel
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TU, Chien-Hung	APPARATUS FOR ESTABLISHING THE	NOH, Tae Gyoon
CHUNG, Jen-Yu	COLOR OF A TOOTH, APPARATUS	JUNG, Gwang Jin
(31) 108209313 U	FOR ESTABLISHING THE COLOR	CHOI, Jun Hoe
(32) 17.07.2019	OF A TOOTH, COMPRISING SAID	HONG, Jong Soo
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VANADIUM OXIDE-BASED SENSITIVE	SKAFIDAS, Efstratios, Stan	HEATING COST DISTRIBUTOR ON
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(73) COMMISSARIAT À L'ÉNERGIE	HUYNH, Duc, Hau	PARAMETERIZATION METHOD FOR
ATOMIQUE ET AUX ÉNERGIES	NGUYEN, Thanh, Cong	PARAMETERIZING AN ELECTRONIC
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TEMPERATURE-SENSITIVE ITEMS	EXPECTED VALUE OF A NOMINAL	SZABO, Peter

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B62D 6/10	(22) 07.02.2019	(47) 10.05.2023
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(47) 10.05.2023	(72) SUZU, Soichiro	(22) 01.03.2019
(22) 20.01.2020	(31) 2018024647	(54) METHOD FOR DETERMINING
(54) SENSOR STRUCTURE FOR	(32) 15.02.2018	AN EFFICIENCY AND/OR FOR
MEASURING TORQUE	(33) Japan	CALIBRATING A TORQUE OF A DRIVE
(73) Melexis Technologies SA	(51) G01L 19/00	TRAIN, IN PARTICULAR OF A WIND
(72) Bilbao de Mendizabal, Javier	H01L 29/84	ENERGY INSTALLATION
(51) G01L 5/00	G01L 19/06	(73) Fraunhofer-Gesellschaft zur Förderung
G01M 99/00	G01L 19/14	der angewandten Forschung e.V.
G01N 3/08	(11) EP3719468	(72) ZHANG, Hongkun
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B29D 99/00	(47) 10.05.2023	PILAS, Martin
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(54) MEASURING APPARATUS AND	A SHIELD STRUCTURE	(51) G01M 1/04
METHOD FOR CAPSULES	(73) Saginomiya Seisakusho, Inc.	G01M 1/06
(73) SACMI COOPERATIVA MECCANICI	(72) TAKIMOTO, Kazuya	G08C 17/00
IMOLA SOCIETA' COOPERATIVA	TANAKA, Tatsuya	(11) EP3121578
(72) ALBONETTI, Danilo	OBA, Tomoharu	(21) EP15178324.8
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(32) 23.12.2020	(32) 30.11.2017	(22) 24.07.2015
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(51) G01L 5/16	(51) G01L 19/14	A TYRE SERVICE MACHINE AND
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G01D 11/24	(21) EP19734848.5	WITH SUCH COMMUNICATION
H05K 5/06	(47) 10.05.2023	SYSTEM
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(54) FORCE SENSOR	SCHOELZEL, Christian	C12M 1/34
(73) Nidec Copal Electronics Corporation	RAT, Julien	C12M 1/00
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(73) ROSEMOUNT AEROSPACE INC.	(73) Endress+Hauser SE+Co. KG	(51) G01M 3/16
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G01L 19/14	G01L 3/24	PRESENCE OF LIQUIDS
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(31) 20150870	(33) Slovenia	(54) SYSTEM, APPARATUS AND METHOD
(32) 08.12.2015	(51) G01M 5/00	OF DETERMINING CONDITION OF A
(33) Czech Republic	G01M 11/08	BEARING
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B60C 25/02	G01N 21/954	MALIK, Vincent
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(51) G01M 3/38	INGRAM, Alan E.	FOR GENERATING ENGINE TEST
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DETECTING TRACE AMOUNTS OF	21.06.2018	A61B 10/00
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LIQUIDS	(54) METHOD AND SYSTEM FOR	(11) EP3877741
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B64F 5/60	(72) DRUET, Tom	ONE SAMPLE BY CORING A SAMPLE
B64D 39/00	CHAPUIS, Bastien	OF MATERIAL
G05D 1/08	MOULIN, Emmanuel	(73) Commissariat à l'Énergie Atomique et
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(54) METHOD FOR DETECTING A	G01M 99/00	CUBIZOLLES, Myriam-Laure
PHYSICAL STATUS OF A FLEXIBLE	(11) EP3875936	LAURENT, Patricia
STRUCTURE	(21) EP21159615.0	NIEF, Nadège
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(22) 26.04.2018	(33) Japan	TRANSPORTING NANOOBJECTS
(54) METHOD FOR DETERMINING	(51) G01M 13/045	CONTAINED IN AEROSOLS, WITH A
ADDITIONAL MECHANICAL LOADS	F16C 19/52	CASSETTE WITH A MODULE SUITED
OF A TRANSMISSION POWER LINE	(11) EP3956645	TO REDUCING THE SUCTION NOISE
CONDUCTOR	(21) EP20734084.5	DURING PICKING
(73) OTLM, razvoj, proizvodnja in svetovanje,	(47) 10.05.2023	(73) Commissariat à l'Énergie Atomique et
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C09D 5/16	(51) G01N 1/40	THERMAL TIP HEATING
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G06T 7/70	H01J 49/04	(73) Endress + Hauser Flowtec AG
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B33Y 70/00	COMPOSITION	Co., Ltd.
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(51) G01N 15/04	CYTOMETER PARTICLE EMISSION	SYSTEM
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G06K 9/00	(47) 19.04.2023	DYKMAN, Arkady Samuilovich
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(73) Nikon Corporation	(31) 2020107342	

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(51) G01N 21/25 G01N 21/78 G01N 33/72 G01N 21/27	(72) Edler, Julian Beyer, Thomas Waldmann, Torsten	(31) 102014001284 (32) 01.02.2014 (33) Germany
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(73) Siemens Healthcare Diagnostics Inc. (72) ZIMMERLE, Chris Thomas RHEINHEIMER, Gary W.	(73) Scully Signal Company (72) PATERSON, Sean	(73) Otsuka Pharmaceutical Co., Ltd. (72) SUZUKI, Yuta
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HARDWICK, Bruce Alfred	(54) POLARIZING LAMINATE AND EYE	FIBER
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(33) United States of America	(72) OYA, Hiroshi	PIMPINELLA, Richard, J.
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AND MANUFACTURING METHOD	29.09.2016	G02B 6/136
THEREOF	(33) Japan	G02B 1/115
(73) STMicroelectronics S.r.l.	Japan	(11) EP3458888
(72) GIUSTI, Domenico	Japan	(21) EP17799837.4
MERLI, Massimiliano	Japan	(47) 19.04.2023
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(51) G02B 5/18	C08K 5/3492	(54) SINGLE MODE OPTICAL COUPLER
G02F 1/01	C08J 5/18	(73) INTEL Corporation
H01Q 15/14	B32B 27/08	(72) RYCKMAN, Judson D.
G02B 1/00	B32B 27/30	FRISH, Harel

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(51) G02B 6/12 G02F 1/035 (11) EP3907539 (21) EP21169262.9 (47) 19.04.2023 (22) 19.04.2021 (54) INTEGRATED ENVIRONMENTALLY INSENSITIVE MODULATOR FOR INTERFEROMETRIC GYROSCOPES (73) Honeywell International Inc. (72) LEWIS, Jeffrey Earl PUCKETT, Matthew Wade KRUEGER, Neil A. NARAYANAN, Chellappan (31) 202016869425 (32) 07.05.2020 (33) United States of America	(51) G02B 6/36 G01B 11/16 G01D 5/353 G01M 11/00 (11) EP2869100 (21) EP13810671.1 (47) 10.05.2023 (87) JP2013065148 03.01.2014 (22) 31.05.2013 (54) ADHESION METHOD AND ADHESION EQUIPMENT, AND METHOD OF MANUFACTURING A STRUCTURE (73) Mitsubishi Heavy Industries, Ltd. (72) SAITO, Nozomi YARI, Takashi (31) 2012141981 (32) 25.06.2012 (33) Japan	(51) G02B 6/44 (11) EP3729156 (21) EP18845437.5 (47) 10.05.2023 (87) FR2018053400 27.06.2019 (22) 19.12.2018 (54) OPTICAL CABLE COMPRISING RIPCORDS (73) ACOME (72) ROSSIER, Philippe CHALLIER, Jean-François DEBON, Olivier RAULT, Sébastien (31) 1762772 (32) 21.12.2017 (33) France
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(51) G02B 6/44	G01J 3/453	(87) EP2017072741
H04Q 1/06	G01J 3/06	22.03.2018
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(21) EP16804824.7	(11) EP3732522	(54) OPTICAL SYSTEM FOR A PIXELIZED
(47) 19.04.2023	(21) EP18837117.3	LIGHT BEAM
(87) EP2016079513	(47) 10.05.2023	(73) Valeo Vision
08.06.2017	(87) US2018067927	(72) LEFAUDEUX, Nicolas
(22) 01.12.2016	04.07.2019	THIN, Guillaume
(54) CABLE DISTRIBUTION SYSTEM WITH	(22) 28.12.2018	DE LAMBERTERIE, Antoine
FAN OUT DEVICES	(54) MIRROR ALIGNMENT IN OPTICAL	MBATA, Samira
(73) CommScope Connectivity Belgium BVBA	SCIENTIFIC INSTRUMENTS	CANONNE, Thomas
(72) VAN BAELEN, David Jan Irma	(73) Thermo Electron Scientific Instruments	HOANG, Van-Thai
SCHURMANS, Eric	LLC	AMIEL, François-Xavier
ZAVREL, Jiri	(72) COFFIN, John Magie	DUBOIS, Vincent
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(32) 01.12.2015	(32) 28.12.2017	(32) 15.09.2016
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(51) G02B 7/08	(51) G02B 13/00	(51) G02B 21/22
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(47) 10.05.2023	(22) 03.11.2020	(22) 08.09.2017
(22) 11.03.2014	(54) LENS SYSTEM FOR A VIDEO	(54) DEVICE FOR RECORDING A STEREO
(54) CAMERA MODULE	ENDOSCOPE, ENDOSCOPE	IMAGE
(73) Samsung Electronics Co., Ltd.	OBJECTIVE, VIDEO ENDOSCOPE,	(73) Karl Storz SE & Co. KG
(72) HWANG, Young-jae	AND ASSEMBLY METHOD	(72) Bechtel, Christin
BYON, Kwang-seok	(73) Karl Storz SE & Co. KG	(31) 102016117024
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H04N 5/232	(21) EP18836663.7	MONITORING MOVEMENT OF
(11) EP3528024	(47) 10.05.2023	MIRRORS IN A MEMS DEVICE
(21) EP17862217.1	(87) JP2018047687	(73) STMicroelectronics International N.V.
(47) 19.04.2023	04.07.2019	(72) GOREN, Nir
(87) JP2017029709	(22) 25.12.2018	LUFT, Ido
26.04.2018	(54) HEAD-MOUNTED DISPLAY DEVICE	SOURANI, Sason
(22) 21.08.2017	AND DISPLAY SYSTEM	(31) 20181109
(54) INFORMATION PROCESSING	(73) Ricoh Company, Ltd.	(32) 29.10.2009
DEVICE, INFORMATION PROCESSING	(72) HIRANO, Shigenobu	(33) Israel
METHOD, AND PROGRAM	KATANO, Yasuo	(51) G02B 27/00
(73) Sony Group Corporation	KAMEYAMA, Kenji	A61B 3/028
(72) YASUDA, Ryouhei	IGARASHI, Norikazu	A61B 3/02
NODA, Takuro	TANAKA, Satomi	G02B 27/28
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G02B 26/10	25.12.2017	(11) EP3886676
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(73) Funai Electric Co., Ltd.	F21S 41/155	(54) PREPARING A STRUCTURED
(72) INODA, Takeshi	F21S 41/153	OPTICAL BEAM FOR HUMAN
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(33) United States of America	United States of America	(54) DISPLAY DEVICE AND METHOD OF
(51) G02B 27/01	United States of America	MANUFACTURING THE SAME
(11) EP3411747	United States of America	(73) Samsung Display Co., Ltd.
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(22) 30.01.2017	(87) EP2013056749	Huh, Su Jung
(54) PROJECTION DEVICE FOR HEAD	03.10.2013	(31) 20180114435
MOUNTED DISPLAYS, METHOD	(22) 28.03.2013	(32) 21.09.2018
OF PRESENTING IMAGES USING	(54) PROJECTION DISPLAY AND METHOD	(33) Korea (Republic)
A HEAD MOUNTED DISPLAY AND	FOR PROJECTING AN OVERALL	(51) G02B 27/01
CONTROLLER	IMAGE	G02B 5/18
(73) Robert Bosch GmbH	(73) Fraunhofer-Gesellschaft zur Förderung	G02B 26/08
(72) PETERSEN, Andreas	der angewandten Forschung e.V.	G02B 27/00
(31) 102016201567	(72) SCHREIBER, Peter	G02B 27/09
(32) 02.02.2016	SIELER, Marcel	G02F 1/29
(33) Germany	KRAUS, Matthias	G06F 1/16
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(47) 10.05.2023	(51) G02B 27/01	G02B 27/42
(22) 06.11.2018	A61B 3/113	(11) EP3717960
(54) HEAD-MOUNTED DISPLAY DEVICE	G02B 6/10	(21) EP19738514.9
(73) Samsung Display Co., Ltd.	G02B 6/26	(47) 10.05.2023
(72) SHIN, Dongyong	G02B 27/28	(87) KR2019000325
SHIM, Jang-Youp	G02B 27/00	18.07.2019
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(32) 05.01.2018	(21) EP18772388.7	(54) METHOD AND OPTICAL SYSTEM FOR
(33) Korea (Republic)	(47) 10.05.2023	DETERMINING DEPTH INFORMATION
(51) G02B 27/01	(87) US2018023512	(73) Samsung Electronics Co., Ltd.
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(21) EP18720461.5	(22) 21.03.2018	YEOM, Jiwoon
(47) 19.04.2023	(54) METHOD AND SYSTEM FOR	KANG, Jaeun
(87) US2018025616	TRACKING EYE MOVEMENT IN	(31) 20180003444
18.10.2018	CONJUNCTION WITH A LIGHT	(32) 10.01.2018
(22) 02.04.2018	SCANNING PROJECTOR	(33) Korea (Republic)
(54) FOVEATED MEMS SCANNING	(73) Magic Leap, Inc.	(51) G02B 27/01
DISPLAY	(72) SCHOWENGERDT, Brian T.	G02B 5/30
(73) Microsoft Technology Licensing, LLC	WATSON, Mathew D.	(11) EP3086159
(72) TARDIF, John	FRANK, Scott	(21) EP13899686.3
MILLER, Joshua, O.	MELVILLE, Charles David	(47) 19.04.2023
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(33) United States of America	(33) United States of America	(22) 17.12.2013
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(21) EP18901262.8	G02B 5/00	(73) Pioneer Corporation
(47) 19.04.2023	(11) EP3596387	(72) YANAGISAWA, Takuma
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METHODS FOR IMAGE SHIFTING IN	(22) 06.03.2018	(47) 10.05.2023
MONOCHROMATIC DISPLAY DEVICES	(54) WAVEGUIDES WITH LIGHT	(87) GB2013050681
(73) Facebook Technologies, LLC	ABSORBING FILMS AND PROCESSES	03.10.2013
(72) TRAIL, Nicholas Daniel	FOR FORMING THE SAME	(22) 18.03.2013
BONAR, James Ronald	(73) Magic Leap, Inc.	(54) IMPROVEMENTS IN OR RELATING TO
VALENTINE, Gareth	(72) MELLI, Mauro	OPTICAL WAVEGUIDES
(31) 201816157554	(31) 201762471285 P	(73) Snap Inc.
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SIMMONDS, Michael, David	(87) EP2018060412	(54) OPHTHALMIC LENS HAVING
(31) 201205383	31.10.2019	MORPHED SINUSOIDAL PHASE SHIFT
(32) 27.03.2012	(22) 24.04.2018	STRUCTURES
(33) United Kingdom	(54) REFLECTIVE OPTICAL ELEMENT,	(73) ALCON INC.
(51) G02B 27/01	BEAM GUIDING DEVICE AND EUV-	(72) MAXWELL, William Andrew
G02B 27/00	BEAM GENERATING DEVICE	HONG, Xin
G02B 26/00	(73) TRUMPF Lasersystems for	WEI, Xin
G06F 3/01	Semiconductor Manufacturing GmbH	(31) 201762536044 P
(11) EP3640710	(72) LAMBERT, Martin	(32) 24.07.2017
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(22) 14.10.2019	G02B 21/20	A61F 2/16
(54) NEAR-EYE DISPLAY APPARATUS	G03B 15/00	G02C 7/04
(73) Coretronic Corporation	(11) EP3910408	(11) EP3756042
(72) CHUANG, FU-MING	(21) EP20741730.4	(21) EP18842625.8
CHANG, CHUAN-CHUNG	(47) 10.05.2023	(47) 19.04.2023
LO, HSIN-HSIANG	(87) CN2020070828	(87) US2018067686
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(32) 15.10.2018	(22) 08.01.2020	(22) 27.12.2018
(33) China	(54) OPTICAL PROJECTION SYSTEM AND	(54) DISTANCE DOMINANT INTRAOCULAR
(51) G02B 27/01	METHOD	LENS
G02F 1/1333	(73) Shenzhen Guangjian Technology Co.,	(73) Bausch & Lomb Incorporated
G02F 1/1335	Ltd.	(72) TIWARI, Nivedan
G02B 23/00	(72) ZHU, Li	VENKATESWARAN, Krishnakumar
G02F 1/1337	LYU, Fanglu	JONES, Andrew William
G02F 1/29	WANG, Bo	ZHAN, Chun
G02B 3/00	(31) 201910035662	SALVATORI, Lorenzo
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(54) DISPLAY DEVICE AND FABRICATION	(21) EP20159225.0	(11) EP2602654
METHOD THEREOF	(47) 10.05.2023	(21) EP11306631.0
(73) Samsung Display Co., Ltd.	(22) 25.02.2020	(47) 19.04.2023
(72) HUH, Su Jung	(54) SPECTACLE LENS REPLACEABLE BY	(22) 08.12.2011
BAEK, Soo Min	MEANS OF A MAGNETIC LATCH	(54) Ophthalmic filter
LEE, Ji Won	(73) Smith Sport Optics, Inc.	(73) Essilor International
HA, Ju Hwa	(72) THORSELL, Eric	SORBONNE UNIVERSITE
(31) 20180122784	VENTURA, Alberto	(72) Cohen-Tannoudji, Denis
(32) 15.10.2018	(31) 201962812139 P	Barrau, Coralie
(33) Korea (Republic)	(32) 28.02.2019	Villette, Thierry Pierre
(51) G02B 27/01	(33) United States of America	Sahel, José-Alain
G06F 3/01	(51) G02C 7/02	Picaud, Serge
G06K 9/00	(11) EP2802935	Arnault, Emilie
G06T 7/62	(21) EP13702733.0	Plessis, Christophe
G06T 19/00	(47) 19.04.2023	Conte, Dominique
G06T 19/20	(87) EP2013000073	(51) G02C 11/00
G09G 5/00	18.07.2013	G02C 5/12
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(21) EP17857333.3	(54) EYEGLASS OPTIMIZATION USING AN	(11) EP3710886
(47) 19.04.2023	INDIVIDUAL EYE MODEL	(21) EP18804409.3
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(54) FACE MODEL CAPTURE BY A	ESSER, Gregor	(22) 24.10.2018
WEARABLE DEVICE	SEIDEMANN, Anne	(54) PAIR OF SPECTACLES WITH BIO-
(73) Magic Leap, Inc.	MÜLLER, Werner	SENSORS
(72) AMAYEH, Gholamreza	(31) 102012000390	(73) Safilo Societa' Azionaria Fabbrica Italiana
KAEHLER, Adrian	(32) 11.01.2012	Lavorazione Occhiali S.p.a.
LEE, Douglas	(33) Germany	(72) BELLI, Nicola
(31) 201662400907 P	(51) G02C 7/04	MANERA, Giorgio
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(51) G06F 1/16 A61B 5/00 H04B 1/3827 H04M 1/02 H04M 1/05 G04G 17/04 (11) EP3913461	(73) Samsung Electronics Co., Ltd. (72) HONG, Eunseok (31) 20180167336 (32) 21.12.2018 (33) Korea (Republic)	(72) MOON, Byungrok KIM, Jaehyun (31) 20200032856 (32) 17.03.2020 (33) Korea (Republic)
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(54) DISPLAY SYSTEM, ELECTRONIC APPARATUS, MOBILE BODY, AND DISPLAY METHOD	(21) EP18746025.8	SPAHMANN, Andreas
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(54) CIRCUIT DEVICE, ELECTRONIC APPARATUS, AND MOBILE BODY	(54) ELECTRONIC DISPLAY ILLUMINATION	(54) AVATAR CREATION USER INTERFACE
(73) Seiko Epson Corporation	(73) Hewlett-Packard Development Company, L.P.	(73) Apple Inc.
(72) WITTMEIR, Manfred	(72) AZAM, Syed S.	(72) SCAPEL, Nicolas
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United States of America	BEZULJ, Marko	DEVICE
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ARRANGEMENT, TRANSMISSION	(32) 25.07.2018	(22) 30.05.2019
SYSTEM AND METHOD FOR MAKING	(33) Korea (Republic)	(54) TOUCH SENSOR AND DISPLAY
A LAMINATED GLASS WITH A	(51) G06F 3/041	DEVICE HAVING THE SAME
SENSOR ARRANGEMENT	G06F 3/044	(73) Samsung Display Co., Ltd.
(73) SAINT-GOBAIN GLASS FRANCE	(11) EP3761159	(72) PARK, Jun Hyun
(72) SCHMALBUCH, Klaus	(21) EP20171125.6	KIM, Ki Cheol
DROSTE, Stefan	(47) 10.05.2023	(31) 20180062093
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(47) 10.05.2023	H01L 27/32	(22) 02.05.2019
(87) CN2015090097	G06F 3/044	(54) INPUT DEVICE COMPRISING
08.12.2016	(11) EP3671414	ACTUATION PART AND
(22) 21.09.2015	(21) EP19215818.6	ELECTROMAGNETIC ALTERNATING-
(54) DISPLAY DEVICE HAVING	(47) 10.05.2023	FIELD INFLUENCING FOR
INTEGRATED TOUCH FUNCTION AND	(22) 12.12.2019	DETERMINING POSITION
DRIVING METHOD THEREOF	(54) DISPLAY DEVICE INCLUDING A	INFORMATION
(73) BOE Technology Group Co., Ltd.	FINGER PRINT SENSOR	(73) Preh GmbH
(72) SHANG, Guangliang	(73) Samsung Display Co., Ltd.	(72) KLEFFEL, Thomas
ZHAO, Jiayang	(72) KIM, Hye Sung	BAUER, Norbert
ZHENG, Haoliang	WE, Sung Wook	(31) 102018110492
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(22) 28.03.2019	(22) 03.01.2018	(47) 10.05.2023
(54) TOUCH MEMBER AND DISPLAY	(54) APPARATUS AND METHOD FOR	(22) 26.01.2016
DEVICE INCLUDING THE SAME	RECOGNIZING FINGERPRINT	(54) METHOD AND APPARATUS
(73) Samsung Display Co., Ltd.	(73) Samsung Electronics Co., Ltd.	FOR SCANNING A BARCODE
(72) Yang, Sung Jin	(72) KIM, Jungwoo	WITH A SMART DEVICE WHILE
Kim, Su Jin	SONG, Hoon	CONTINUOUSLY RUNNING AND
Kim, Tae Gon	LEE, Hongseok	DISPLAYING AN APPLICATION ON
Kim, Han Soo	(31) 20170009375	THE SMART DEVICE DISPLAY

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G09G 5/10	RECOVERY AND REDISTRIBUTION	G06F 9/448
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H05B 47/12	(72) Beckhardt, Steven Robert	F02D 45/00
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(72) JUNG, Min-joon	(87) CN2018107343	(73) Hitachi Astemo, Ltd.
WON, Tae-yeon	04.04.2019	(72) HORITA, Yuki
(31) 20150169816	(22) 25.09.2018	SAKURAI, Kohei
(32) 01.12.2015	(54) SIGNAL TRANSMISSION CIRCUIT,	KUDO, Makoto
(33) Korea (Republic)	SIGNAL TRANSMISSION METHOD	YOSHIMURA, Kentaro
(51) G06F 3/16	AND INTELLIGENT TERMINAL	(31) 2016195804
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LU, David	G06N 3/04	(54) PROGRAM GENERATION DEVICE,
USSHER, Allen L.	(11) EP3809285	PROGRAM GENERATION METHOD
BOST, Jennifer L.	(21) EP20202003.8	AND PROGRAM
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(32) 22.11.2016	(22) 15.10.2020	(72) OKAMOTO, Hiroaki
(33) United States of America	(54) METHOD AND APPARATUS WITH	NAGATO, Tsuyoshi
(51) G06F 3/16	DATA PROCESSING	KOEZUKA, Tetsuo
G07C 5/08	(73) Samsung Electronics Co., Ltd.	(51) G06F 8/41
(11) EP3622384	(72) VASYLTSOV, Ihor	H03M 5/12
(21) EP17787718.0	CHANG, Wooseok	H03M 7/04
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BASED ON VEHICLE DIAGNOSTIC	(33) Korea (Republic)	(22) 24.04.2018
DATA	United States of America	(54) SYSTEM AND METHOD FOR
(73) Google LLC	(51) G06F 8/36	BITSTREAM DECODING WITH
(72) RAMIC, Haris	G06F 8/77	COMPILER-GENERATED SYNTAX
(51) G06F 3/16	G06F 21/56	TREES
H04L 65/612	G06F 21/57	(73) Tektronix, Inc.
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(51) G06F 8/54	(51) G06F 8/654	(73) Microchip Technology Incorporated
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G06F 9/451	(21) EP18762871.4	MICKEY, David
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(47) 19.04.2023	(22) 10.09.2018	REITER, Andreas
(22) 26.11.2019	(54) METHOD FOR AMENDING THE	(31) 201562195692 P
(54) SYSTEM AND METHOD FOR	FIRMWARE OF A RESOURCE	201562154927 P
OPERATING A SYSTEM	CONSTRAINED DEVICE	(32) 22.07.2015
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Stork, Detlef	BOUVERON, Dominique	United States of America
Hartmann, Elmar	MINETTE DE SAINT MARTIN, Xavier	(51) G06F 9/30
Hesse, Peter	VIENNE, Nicolas	G06F 15/78
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(11) EP4071603	G06F 8/41	INSTRUCTION SET ARCHITECTURE
(21) EP22160226.1	(11) EP4055472	FOR DYNAMICALLY CONFIGURING
(47) 19.04.2023	(21) EP20824223.0	EXECUTION RESOURCES
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(54) IN-VEHICLE SOFTWARE UPDATING	(87) EP2020085797	(72) HENRY, G Glenn
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(73) Yazaki Corporation	(22) 11.12.2020	PARKS, Terry
(72) Goto, Jun	(54) METHOD FOR DATA MIGRATION	REED, Douglas R
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(73) Hewlett Packard Enterprise Development	(51) G06F 9/28	G06Q 20/40
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(73) SOLiD, INC.	(51) G06F 9/30	WATSON, Gaven James
(72) PARK, Bum Soo	G06F 9/38	SINHA, Rohit
PARK, Chi Young	(11) EP3289442	MUKHERJEE, Pratyay
KIM, Gil Koog	(21) EP16722012.8	(31) 201962929344 P
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(73) CANON KABUSHIKI KAISHA (72) KAWAWA, Yasuhiro (31) 2018226726 (32) 03.12.2018 (33) Japan	(33) United States of America United States of America United States of America	(73) Apple Inc. (72) BAS, Ording LOUCH, John O. (31) 90798210 (32) 19.10.2010 (33) United States of America
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(22) 06.03.2017	IN HETEROGENEOUS COMPUTING	(87) CN2019073926
(54) PROVISIONING OF CONTAINERS FOR	ENVIRONMENTS INCLUDING CLOUD	06.08.2020
VIRTUALIZED APPLICATIONS	EDGE LOCATIONS	(22) 30.01.2019
(73) Bladelogic, Inc.	(73) Amazon Technologies, Inc.	(54) FAULT DETECTION METHOD FOR
(72) NEOGI, Atanu	(72) PARULKAR, Ishwardutt	SMART DOOR LOCK, SMART DOOR
KUMAR, Ajoy	GUPTA, Diwakar	LOCK, AND STORAGE MEDIUM
PHATAK, Soumee	ELISSAIOS, Georgios	(73) SHENZHEN GOODIX TECHNOLOGY
(31) 201662303820 P	(31) 201916699344	CO., LTD.
(32) 04.03.2016	(32) 29.11.2019	(72) ZHOU, Wei
(33) United States of America	(33) United States of America	LI, Qingbin
(51) G06F 9/50	(51) G06F 9/50	(51) G06F 11/07
(11) EP3811212	G06F 9/48	G06F 11/32
(21) EP19735616.5	G06F 15/80	G06F 11/36
(47) 10.05.2023	(11) EP3398065	(11) EP4006731
(87) GB2019051582	(21) EP16882226.0	(21) EP21182344.8
26.12.2019	(47) 19.04.2023	(47) 10.05.2023
(22) 07.06.2019	(87) US2016052710	(22) 29.06.2021
(54) SYSTEMS AND METHODS FOR	06.07.2017	(54) METHOD, APPARATUS, DEVICE,
PROVIDING CONNECTIVITY	(22) 20.09.2016	STORAGE MEDIUM AND COMPUTER
BETWEEN TWO OR MORE	(54) DATA DRIVEN SCHEDULER ON	PROGRAM PRODUCT FOR TESTING
HARDWARE AND SOFTWARE	MULTIPLE COMPUTING CORES	CODE
COMPONENTS	(73) Advanced Micro Devices, Inc.	(73) BEIJING BAIDU NETCOM SCIENCE
(73) Thales Holdings UK Plc	ATI Technologies ULC	AND TECHNOLOGY CO. LTD.
(72) WILLIAMS, James	(72) MIRZA, Jimshed	(72) ZHANG, Chunle
SIMPSON, Louise	ZHU, YunPeng	LUO, Tao
MORRIS, Simon	(31) 201514981257	LAN, Xiang
(31) 201810205	(32) 28.12.2015	(31) 202011362254
(32) 21.06.2018	(33) United States of America	(32) 27.11.2020
(33) United Kingdom	(51) G06F 11/07	(33) China
(51) G06F 9/50	G06F 11/22	(51) G06F 11/07
G06F 9/44	G06F 11/32	G06F 11/36
G06F 3/06	(11) EP3899726	G06F 11/16
G06F 8/72	(21) EP19831693.7	(11) EP3572943
(11) EP3376383	(47) 10.05.2023	(21) EP19175046.2
(21) EP17160695.7	(87) EP2019086209	(47) 10.05.2023
(47) 10.05.2023	25.06.2020	(22) 17.05.2019
(22) 13.03.2017	(22) 19.12.2019	(54) SEMICONDUCTOR DEVICE AND
(54) DEVICE AND METHOD FOR	(54) METHOD TO EFFICIENTLY EVALUATE	DEBUG METHOD
OPTIMISING SOFTWARE IMAGE	A LOG PATTERN	(73) Renesas Electronics Corporation
LAYERS OF PLURAL SOFTWARE	(73) Koninklijke Philips N.V.	(72) ARAI, Yuta
IMAGE LAYER STACKS	(72) PRONK, Serverius, Petrus, Paulus	HASEGAWA, Kyoko
(73) Nokia Solutions and Networks Oy	KORST, Johannes, Henricus, Maria	SASAKI, Hiroyuki
(72) Vandeputte, Frederik	BARBIERI, Mauro	(31) 2018100239
(51) G06F 9/50	(31) 201862782381 P	(32) 25.05.2018
G06F 9/48	(32) 20.12.2018	(33) Japan
G06F 11/20	(33) United States of America	(51) G06F 11/10
H04L 67/1031	(51) G06F 11/07	(11) EP3889778
H04L 67/148	G06F 11/22	(21) EP18943795.7
H04L 69/40	G06F 11/36	(47) 10.05.2023
H04L 67/1012	G06N 3/04	(87) CN2018122935
H04L 67/1036	G06N 3/08	25.06.2020
H04L 41/0894	(11) EP3905044	(22) 22.12.2018
H04L 41/0895	(21) EP20305418.4	(54) DISTRIBUTED STORAGE SYSTEM
H04L 41/40	(47) 10.05.2023	AND COMPUTER PROGRAM
H04L 41/5054	(22) 30.04.2020	PRODUCT
H04L 43/0852	(54) METHOD FOR AUTOMATIC ANALYSIS	(73) Huawei Cloud Computing Technologies
H04L 43/0876	OF THE TRANSACTION LOGS OF A	Co., Ltd.
H04L 43/16	DISTRIBUTED COMPUTER SYSTEM	(72) WEI, Mingchang
H04L 43/20	(73) Bull SAS	RAO, Rong
H04L 41/0806	(72) PLATINI, Marc	SONG, Chi
H04L 41/0816	PELLETIER, Benoit	(51) G06F 11/14
(11) EP4049435	PAULETTO, Loic	(11) EP3862883
(21) EP20816759.3	(51) G06F 11/07	(21) EP19874958.2

(47) 19.04.2023	G06F 11/10	(73) Accenture Global Solutions Limited
(87) CN2019090090	G06F 3/06	(72) VENKATARAMAN, Mahesh
30.04.2020	(11) EP3803601	JENA, Chinmaya RANJAN
(22) 05.06.2019	(21) EP19726845.1	NOCHILUR, Sunder RANGANATHAN
(54) DATA BACKUP METHOD AND	(47) 10.05.2023	LJUNG, Michael A.
APPARATUS, AND SYSTEM	(87) US2019031917	WILKINSON, Jeffrey S.
(73) Huawei Technologies Co., Ltd.	28.11.2019	FERNANDES, Mallika
(72) ZHANG, Lei	(22) 13.05.2019	PANDA, Chinmay KUMAR
(31) 201811433033	(54) META-COPYSETS FOR FAULT-	MURUMKAR, Akash
201811232224	TOLERANT DATA STORAGE	GURUNATHAN, Prashant
(32) 28.11.2018	(73) Microsoft Technology Licensing, LLC	PATI, Swagatika
22.10.2018	(72) LORCH, Jacob Rubin	(31) 202011012131
(33) China	HUANG, Cheng	202016901287
China	HUANG, Peng	(32) 20.03.2020
(51) G06F 11/14	OGUS, Aaron W.	15.06.2020
G06F 16/23	(31) 201815989589	(33) India
G06F 16/27	(32) 25.05.2018	United States of America
H04L 9/00	(33) United States of America	(51) G06F 11/34
H04L 9/32	(51) G06F 11/22	G06F 17/40
(11) EP3869339	G06F 11/36	G06F 11/30
(21) EP21157675.6	(11) EP2587379	(11) EP3809269
(47) 10.05.2023	(21) EP11801042.0	(21) EP20200434.7
(22) 17.02.2021	(47) 10.05.2023	(47) 10.05.2023
(54) DATA STORAGE METHOD AND	(87) KR2011001803	(22) 07.10.2020
APPARATUS FOR BLOCKCHAIN,	05.01.2012	(54) MONITORING A DISTRIBUTED
DEVICE, AND MEDIUM	(22) 15.03.2011	APPLICATION SERVER
(73) BAIDU ONLINE NETWORK	(54) SYSTEM TEST APPARATUS	ENVIRONMENT
TECHNOLOGY (BEIJING) CO., LTD.	(73) Hyundai Motor Company	(73) Amadeus S.A.S.
(72) Xiao, Wei	Kia Corporation	(72) CEYSSSENS, Tom Albert Louis
(31) 202010106770	Ewha University-Industry Collaboration	(31) 1911591
(32) 20.02.2020	Foundation	(32) 17.10.2019
(33) China	(72) CHOI, Byoung-Ju	(33) France
(51) G06F 11/16	SEO, Joo-Young	(51) G06F 11/36
G06F 11/20	YANG, Sueng-Wan	(11) EP3635561
(11) EP3750066	LIM, Jin Yong	(21) EP18731334.1
(21) EP19704932.3	KIM, Young Su	(47) 10.05.2023
(47) 10.05.2023	OH, Jung Suk	(87) US2018034977
(87) US2019014853	KWON, Hae Young	13.12.2018
15.08.2019	JANG, Seung Yeun	(22) 30.05.2018
(22) 24.01.2019	(31) 20100061455	(54) ASYNCHRONOUS OPERATION
(54) PROTECTION OF INFRASTRUCTURE-	PCT/KR2010/006068	QUERY
AS-A-SERVICE WORKLOADS IN	(32) 28.06.2010	(73) Microsoft Technology Licensing, LLC
PUBLIC CLOUD	07.09.2010	(72) TOUB, Stephen H.
(73) Microsoft Technology Licensing, LLC	(33) Korea (Republic)	CULVER, Clayton L.
(72) BADE, Naresh K.	World Intellectual Property Office (WIPO)	(31) 201715614073
JARIPITI, Devendra	(51) G06F 11/34	(32) 05.06.2017
JHA, Aditya Kumar	(11) EP3767474	(33) United States of America
BOPPANA, Phani Prakash	(21) EP20185817.2	(51) G06F 11/36
(31) 201815890730	(47) 19.04.2023	(11) EP3956773
(32) 07.02.2018	(22) 14.07.2020	(21) EP20718935.8
(33) United States of America	(54) METHOD FOR ANALYSING	(47) 10.05.2023
(51) G06F 11/20	RESOURCE CONSUMPTION OF A	(87) US2020023048
G06F 1/18	COMPUTER INFRASTRUCTURE,	22.10.2020
G06F 1/26	ALERT AND SIZING	(22) 17.03.2020
G06F 11/07	(73) Bull SAS	(54) PROGRAM EXECUTION COVERAGE
H02J 1/08	(72) BRUNO, Demeilliez	EXPANSION BY SELECTIVE DATA
H02J 1/10	GILLES, Menigot	CAPTURE
(11) EP3916518	(31) 1907972	(73) Microsoft Technology Licensing, LLC
(21) EP20315267.3	(32) 15.07.2019	(72) ZINGER, Arbel
(47) 10.05.2023	(33) France	SCHWARTZ, Tomer
(22) 28.05.2020	(51) G06F 11/34	(31) 201916387845
(54) POWER SUPPLY COMBINATION	G06F 11/36	(32) 18.04.2019
HAVING HETEROGENEOUS POWER	(11) EP3882776	(33) United States of America
SUPPLIES	(21) EP21159063.3	(51) G06F 11/36
(73) OVH	(47) 10.05.2023	G06F 9/455
(72) Thibaut, Christophe Maurice	(22) 24.02.2021	G06F 11/34
Maillot, Patrick-Gilles	(54) AUTONOMOUS SELF-HEALING TEST	H03M 7/30
(51) G06F 11/20	AUTOMATION	(11) EP3537303

(21) EP18200355.8	G06F 11/14	(73) Intel Corporation
(47) 10.05.2023	(11) EP3769224	(72) KOUFATY, David
(22) 15.10.2018	(21) EP19713308.5	SANKARAN, Rajesh
(54) TRACE DATA COMPRESSION METHOD SELECTION DEVICE. METHOD, AND PROGRAM	(47) 19.04.2023	VAKHARWALA, Rupin
(73) Renesas Electronics Corporation	(87) US2019021716	(31) 201916458013
(72) TAKAHASHI, Atsushi	26.09.2019	(32) 29.06.2019
(31) 2017243708	(22) 12.03.2019	(33) United States of America
(32) 20.12.2017	(54) CONFIGURABLE RECOVERY STATES	(51) G06F 12/0868
(33) Japan	(73) Microsoft Technology Licensing, LLC	(11) EP4018319
(51) G06F 12/00	(72) OU-YANG, Darwin	(21) EP20735781.5
G06F 16/174	KAGAN, Oleg	(47) 10.05.2023
G06F 16/17	SAIYA, Sameer Chetan	(87) US2020037681
G06F 12/02	THIND, Ravinder S.	25.02.2021
(11) EP3343379	(31) 201815968130	(22) 15.06.2020
(21) EP17838168.7	201862645725 P	(54) DATA PRESERVATION USING MEMORY APERTURE FLUSH ORDER
(47) 10.05.2023	(32) 01.05.2018	(73) Microsoft Technology Licensing, LLC
(87) JP2017029536	20.03.2018	(72) BULUSU, Mallik
11.05.2018	(33) United States of America	NGUYEN, Tom L.
(22) 17.08.2017	United States of America	LADKANI, Neeraj
(54) INFORMATION PROCESSING DEVICE AND INFORMATION PROCESSING METHOD	(51) G06F 12/02	MYSORE SHANTAMURTHY, Ravi
(73) KYOCERA Document Solutions Inc.	G06F 12/06	(31) 201916546337
(72) OYASATO, Tomoki	(11) EP4024220	(32) 21.08.2019
(31) 2016216857	(21) EP21207487.6	(33) United States of America
(32) 07.11.2016	(47) 10.05.2023	(51) G06F 12/0868
(33) Japan	(22) 10.11.2021	(11) EP3553667
(51) G06F 12/00	(54) STORAGE DEVICE INCLUDING MEMORY CONTROLLER AND OPERATING METHOD OF MEMORY CONTROLLER	(21) EP18185842.4
G11C 11/401	(73) Samsung Electronics Co., Ltd.	(47) 10.05.2023
G11C 11/407	(72) KIM, Huijeong	(22) 26.07.2018
G06F 13/16	KANG, Cheolho	(54) STORAGE SYSTEM AND STORING METHOD
G11C 7/10	BAE, Duckho	(73) Acer Incorporated
G11C 11/406	(31) 20210034867	(72) Huang, Yi-Jhong
G06F 13/42	20200188209	Fu, Tz-Yu
(11) EP3422191	(32) 17.03.2021	(31) 107112814
(21) EP18187204.5	30.12.2020	(32) 13.04.2018
(47) 10.05.2023	(33) Korea (Republic)	(33) Taiwan, Chinese Taipei
(22) 21.06.2011	Korea (Republic)	(51) G06F 12/0875
(54) SEMICONDUCTOR DEVICE AND DATA PROCESSING SYSTEM	(51) G06F 12/02	G06F 12/0811
(73) Renesas Electronics Corporation	G06F 12/06	G06F 12/0862
(72) SATO, Junkei	G06F 13/16	G06F 9/38
HONDA, Nobuhiko	G06F 12/0862	G06F 12/0888
(31) 2010170225	(11) EP3611623	G06F 12/1027
(32) 29.07.2010	(21) EP19188499.8	(11) EP3695317
(33) Japan	(47) 10.05.2023	(21) EP18865480.0
(51) G06F 12/02	(22) 26.07.2019	(47) 10.05.2023
(11) EP3640806	(54) MEMORY CONTROLLER COMPRISING TWO BUFFERS AND MEANS FOR SELECTING A FILLING MODE FOR SAID BUFFERS	(87) US2018055171
(21) EP18818664.7	(73) STMicroelectronics (Grenoble 2) SAS	18.04.2019
(47) 19.04.2023	(72) BRIAT, Gerald	(22) 10.10.2018
(87) CN2018090684	(31) 1857517	(54) ZERO LATENCY PREFETCHING IN CACHES
20.12.2018	(32) 17.08.2018	(73) Texas Instruments Incorporated
(22) 11.06.2018	(33) France	(72) OLORODE, Oluleye
(54) MEMORY BLOCK TYPE PROCESSING METHOD, DEVICE, ELECTRONIC DEVICE, AND READABLE STORAGE MEDIUM	(51) G06F 12/0811	VENKATASUBRAMANIAN, Ramakrishnan
(73) Onplus Technology (Shenzhen) Co., Ltd.	G06F 12/0815	ONG, Hung
(72) LIN, Kengyu	G06F 12/0831	(31) 201715730874
CHANG, Wenyen	G06F 12/084	(32) 12.10.2017
(31) 201710457639	G06F 12/1009	(33) United States of America
(32) 16.06.2017	(11) EP3757799	(51) G06F 12/0888
(33) China	(21) EP20163133.0	(11) EP3608789
(51) G06F 12/02	(47) 19.04.2023	(21) EP19190847.4
G06F 1/24	(22) 13.03.2020	(47) 19.04.2023
	(54) SYSTEM AND METHOD TO TRACK PHYSICAL ADDRESS ACCESSES BY A CPU OR DEVICE	(22) 08.08.2019
		(54) SYSTEM AND METHOD FOR DYNAMIC BULK DATA INGESTION PRIORITIZATION
		(73) Visa International Service Association

(72) Li, Peijie Gu, Yu Song, Hongqin	H04W 12/42 (11) EP3574409 (21) EP18745294.1 (47) 19.04.2023 (87) US2018014995 02.08.2018	(22) 03.03.2017 (54) POWER-REDUCING MEMORY SUBSYSTEM HAVING A SYSTEM CACHE AND LOCAL RESOURCE MANAGEMENT (73) QUALCOMM Incorporated (72) LI, Yanru CHUN, Dexter Tamio ARTIERI, Alain
(31) 201816058724 (32) 08.08.2018 (33) United States of America	(22) 24.01.2018 (54) METHOD FOR ENERGY EFFICIENT SENSORS WITH COMPRESSION, ARTIFICIAL INTELLIGENCE, AND SECURITY (73) The Trustees of Princeton University (72) JHA, Niraj K. (31) 201762450014 P (32) 24.01.2017 (33) United States of America	(31) 201615081914 (32) 27.03.2016 (33) United States of America
(51) G06F 12/14 (11) EP3457290 (21) EP18192657.7 (47) 10.05.2023 (22) 05.09.2018 (54) MEMORY ACCESS CONTROL USING ADDRESS ALIASING (73) STMICROELECTRONICS (ROUSSET) SAS (72) ROMAIN, Fabrice (31) 1758564 (32) 15.09.2017 (33) France	(51) G06F 13/10 G06F 3/02 G06F 3/038 G06F 3/0354 H05B 45/20 H04B 7/26 G06F 3/033 G06F 3/023 H05B 47/19 (11) EP3827353 (21) EP18928114.0 (47) 19.04.2023 (87) SG2018050361 30.01.2020 (22) 23.07.2018 (54) A WIRELESS LIGHTING EFFECT CONFIGURATION DATA TRANSMISSION SYSTEM (73) Razer (Asia-Pacific) Pte. Ltd. (72) LEE, Kah Yong CHAN, Chee Oei DAI, Gui Mei	(31) 201615081914 (32) 27.03.2016 (33) United States of America
(51) G06F 12/14 (11) EP3588314 (21) EP19177146.8 (47) 19.04.2023 (22) 28.05.2019 (54) PROCESSOR INSTRUCTION SUPPORT TO DEFEAT SIDE-CHANNEL ATTACKS (73) INTEL Corporation (72) LIU, Fangfei XING, Bin STEINER, Michael VIJ, Mona ROZAS, Carlos MCKEEN, Francis OZSOY, Meltem FERNANDEZ, Matthew ZMUDZINSKI, Krystof SHANAHAN, Mark	(51) G06F 13/10 G06F 13/22 G06F 13/18 G06F 13/16 G06F 13/14 G06F 13/38 (11) EP3605347 (21) EP19187848.7 (47) 19.04.2023 (22) 23.07.2019 (54) SYSTEMS AND METHODS FOR I/O PRIORITIZATION IN NVME- COMPLIANT STORAGE DEVICES (73) Hewlett Packard Enterprise Development LP (72) BANNUR SUBRAYA, Sumangala (31) 201841029015 (32) 01.08.2018 (33) India	(51) G06F 13/18 G06F 13/30 (11) EP3842952 (21) EP20216219.4 (47) 10.05.2023 (22) 21.12.2020 (54) STORAGE CONTROLLER MANAGING COMPLETION TIMING, AND OPERATING METHOD THEREOF (73) Samsung Electronics Co., Ltd. (72) HWANG, Sangmuk PARK, Jaegeun SHIM, Hojun YOO, Byungchul (31) 20190172650 202016983471 (32) 23.12.2019 03.08.2020 (33) Korea (Republic) United States of America
(31) 201816024733 (32) 29.06.2018 (33) United States of America	(51) G06F 13/10 G06F 13/22 G06F 13/18 G06F 13/16 G06F 13/14 G06F 13/38 (11) EP3605347 (21) EP19187848.7 (47) 19.04.2023 (22) 23.07.2019 (54) SYSTEMS AND METHODS FOR I/O PRIORITIZATION IN NVME- COMPLIANT STORAGE DEVICES (73) Hewlett Packard Enterprise Development LP (72) BANNUR SUBRAYA, Sumangala (31) 201841029015 (32) 01.08.2018 (33) India	(51) G06F 13/24 G06F 13/42 (11) EP3435243 (21) EP18182746.0 (47) 19.04.2023 (22) 17.06.2016 (54) EXTENDED MESSAGE SIGNALLED INTERRUPTS (MSI) MESSAGE DATA (73) QUALCOMM INCORPORATED (72) YIFRACH, Shaul Yohai GIL, Amit PANIAN, James Lionel ROSENBERG, Ofer PATEL, Piyush (31) 201615184124 201562243850 P 201562182800 P (32) 16.06.2016 20.10.2015 22.06.2015 (33) United States of America United States of America United States of America
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(51) G06F 12/14 G06F 21/60 H04L 9/32 H04W 12/00 H04W 12/10 H04W 84/18 H04W 4/38 H04L 69/04 H04W 12/03 H04W 12/106	(51) G06F 13/16 G06F 1/32 G06F 1/324 G06F 1/3234 G06F 1/3296 G11C 11/406 (11) EP3436959 (21) EP17711940.1 (47) 10.05.2023 (87) US2017020810 05.10.2017	(51) G06F 13/40 G06F 1/26 G06F 1/16 (11) EP3584713 (21) EP19180056.4 (47) 19.04.2023 (22) 13.06.2019 (54) MODULE AND METHOD FOR DETECTING THE PRESENCE OF AN ELECTRONIC PAYMENT TERMINAL ON A HOST BASE, CORRESPONDING HOST BASE

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28.01.2016	11.04.2019	(72) ZUNKE, Michael
(22) 21.07.2015	(22) 02.10.2018	(31) 28808
(54) SYSTEM AND METHOD FOR DETECTING ACTIVATION OF A MEDICAL DELIVERY DEVICE	(54) PROVIDING COMMAND BUNDLE SUGGESTIONS FOR AN AUTOMATED ASSISTANT	(32) 10.02.2008
(73) Amgen Inc.	(73) Google LLC	(33) United States of America
Connectmesmart GmbH	(72) NI, Yuzhao	(51) G06F 21/12
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(21) EP19169911.5	(11) EP3642727	Zwanzger, Johannes
(47) 10.05.2023	(21) EP18786443.4	(51) G06F 21/30
(22) 17.04.2019	(47) 10.05.2023	G06F 21/31
(54) METHOD, DEVICE AND SYSTEM FOR PROCESSING IMAGE TAGGING INFORMATION	(87) US2018000361	H04M 1/667
(73) Baidu Online Network Technology (Beijing) Co., Ltd	27.02.2020	H04M 1/67
(72) KE, Haifan	(22) 20.08.2018	H04M 1/673
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(72) MIELKE, Tobias	(72) LEWIS, Justin	(73) LG Electronics Inc.
(31) 102019209314	DAVIES, Scott	(72) MUN, Jaeseung
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(33) Germany	(32) 24.04.2017	KIM, Haebong
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(54) SYSTEM FOR GLOBAL AND ORDERED DATA STORAGE AND/ OR DATA MANAGEMENT USING	(47) 10.05.2023	20110096190
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	ARUGA, Kazumi	(51) G06F 21/31
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KELSEY, William David	(32) 06.03.2020	(31) 201719080
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(22) 26.06.2019	(22) 29.10.2014	VALIDATING KERNEL OBJECTS TO BE
(54) USER AUTHENTICATION	(54) MOBILE DEVICE CASE FOR	EXECUTED BY A DATA PROCESSING
(73) Siemens Aktiengesellschaft	GENERATING USER DATA	ACCELERATOR OF A HOST SYSTEM
(72) KUBO, Florian	(73) Cryptomathic Ltd	(73) Baidu.com Times Technology (Beijing)
JÖHNSSEN, Oliver	(72) Landrock, Peter	Co., Ltd.
KRÜGER, Daniel	Bond, Mike	Baidu USA LLC
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(54) OFFLINE MANAGEMENT METHOD	(21) EP20726608.1	G06F 12/14
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TERMINAL DEVICE	(87) US2020029992	G06F 21/74
(73) Huawei Technologies Co., Ltd.	17.12.2020	G06F 9/455
(72) YU, Shuangxin	(22) 25.04.2020	(11) EP3961446
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A61J 1/03	(72) HASSAN, Amer Aref	SECURELY ENTERING TRUSTED
A61J 7/04	CHEN, Wei-Chen	EXECUTION ENVIRONMENT IN
G06Q 10/06	(31) 201916436809	HYPER-THREADING SCENARIO
G06Q 20/20	(32) 10.06.2019	(73) Alipay (Hangzhou) Information
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G06Q 20/34	(51) G06F 21/44	(72) LIU, Xiaojian
G06Q 20/40	G06F 21/57	YAN, Shoumeng
G06Q 50/08	(11) EP3480719	GU, Zongmin
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G16H 40/20	FUEL DISPENSER	G06F 21/57
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United States of America	HODGES, Stephen E.	(51) G06F 21/60
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PROTECTING A COMPUTER FILE	(87) EP2019063186	METHOD AND APPARATUS, AND
AGAINST POSSIBLE MALWARE	26.12.2019	ELECTRONIC DEVICE
ENCRYPTION	(22) 22.05.2019	(73) Advanced New Technologies Co., Ltd.
(73) Telefonica Cybersecurity & Cloud Tech	(54) CRYPTOGRAPHY MODULE AND	(72) LI, Lichun
S.L.U.	METHOD FOR OPERATING SAME	YIN, Shan
(72) DE LOS SANTOS VILCHES, Sergio	(73) Robert Bosch GmbH	WANG, Huazhong
GUZMÁN SACRISTÁN, Antonio	(72) SCHRAMM, Juergen	LIN, Wenzhen
ALONSO CEBRIÁN, José, María	JUNG, Ramona	(31) 201810925182
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G06F 21/74	WEBER, Andreas	(51) G06F 21/62
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INFORMATION IN A DEVICE	(32) 13.08.2018	STORING COMPUTER FILES AND
(73) NXP B.V.	13.07.2018	ASSOCIATED ENCRYPTION AND
(72) SHAH, Viral Madhukar	20.06.2018	STORAGE DEVICE
LIU, Kunyan	(33) Germany	(73) SAGEMCOM BROADBAND SAS
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(32) 02.09.2020	Germany	DIONISI, Florent
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(54) DETECTING SECURITY RISKS IN	26.12.2019	G06F 21/60
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(73) BlackBerry Limited	(54) CRYPTOGRAPHY MODULE AND	(11) EP3889814
(72) BOULTON, Adam John	METHOD FOR OPERATING SAME	(21) EP19909433.5
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G06F 12/0891	MEURER, Alexander	(54) UPDATE DEVICE AND UPDATE
G06F 11/07	STUMPF, Frederic	METHOD
G06F 21/74	WEBER, Andreas	(73) NIPPON TELEGRAPH AND
G06F 21/78	ZIEGLER, Florian	TELEPHONE CORPORATION
(11) EP3803663	SAGAR, Ilias	(72) MUTO, Kenichiro
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(54) WATCHDOG TIMER HIERARCHY	20.06.2018	(33) Japan
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(21) EP20161115.9	DAVIES, Jack	(73) Google LLC
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Yagi, Tadao	Park, Soon-Ryong	Ltd.
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(73) LG Display Co., Ltd.	H01L 29/423	Noebauer, Gerhard
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LIN, Peter	JINKO SOLAR CO., LTD	(73) Commissariat à l'énergie atomique et aux
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(54) Array Substrate and Method for Manufacturing the same, Display Device	(72) CHOI, Young Seo	(32) 07.11.2019
(73) BOE Technology Group Co., Ltd.	KIM, Sang Shin	(33) Korea (Republic)
(72) Song, Youngsuk	KIM, Jin Hyuk	(51) H01L 51/54
Yoo, Seongyeol	PARK, Young Don	C07F 7/08
Choi, Seungjin	BAEK, Young Bin	(11) EP3848992
Kim, Heecheol	LEE, Sang Woo	(21) EP21159426.2
(31) 201210536963	(31) 20170008519	(47) 19.04.2023
(32) 12.12.2012	(32) 18.01.2017	(22) 20.11.2019
(33) China	(33) Korea (Republic)	(54) HETEROCYCLIC COMPOUND AND ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME
(51) H01L 51/52	(51) H01L 51/52	(73) Samsung Display Co., Ltd.
H01L 27/32	H01L 51/56	(72) AHN, Heechoon
(11) EP2927985	(11) EP3488478	KIM, Hyeongmin
(21) EP15161233.0	(21) EP17797848.3	UM, Hyunah
(47) 10.05.2023	(47) 19.04.2023	LEE, Yeseul
(22) 27.03.2015	(87) CN2017083790	IM, Yirang
(54) HERMETICALLY SEALED ISOLATED OLED PIXELS	25.01.2018	KO, Soobyung
(73) Universal Display Corporation	(22) 10.05.2017	KIM, Youngkook
(72) Harikrishna Mohan, Siddharth	(54) METHOD OF FABRICATING DISPLAY PANEL	(31) 20180147692
Quinn, William E.	(73) BOE Technology Group Co., Ltd.	(32) 26.11.2018
Ma, Ruiqing	Hefei BOE Optoelectronics Technology Co., Ltd.	(33) Korea (Republic)
Krall, Emory	(72) GONG, Kui	(51) H01M 4/02
Walski, Luke	DUAN, Xianxue	H01M 4/04
(31) 201514661335	HUNG, Hsiaowen	H01M 4/66
201461970937 P	(31) 201610571225	H01B 13/00
(32) 18.03.2015	(32) 19.07.2016	H01G 11/26
27.03.2014	(33) China	H01G 11/28
(33) United States of America	(51) H01L 51/54	H01G 11/38
United States of America	H01L 51/00	(11) EP2472528
(51) H01L 51/52	C07C 211/54	(21) EP10811850.6
H01L 51/00	C07C 211/61	(47) 19.04.2023
(11) EP2996167	C07D 209/86	(87) JP2010064265
(21) EP13828968.1	C09K 11/06	03.03.2011
(47) 19.04.2023	(11) EP3404735	(22) 24.08.2010
(87) CN2013082311	(21) EP17738565.5	(54) DISPERSANT FOR USE IN A CARBON FILLER
13.11.2014	(47) 10.05.2023	(73) Dainichiseika Color & Chemicals Mfg. Co., Ltd.
(22) 26.08.2013	(87) JP2017001112	(72) KOBAYASHI Nobuyuki
(54) FLEXIBLE SUBSTRATE, MANUFACTURING METHOD FOR SAME, AND OLED DISPLAY APPARATUS	20.07.2017	SANNAN Takatori
(73) Hefei BOE Optoelectronics Technology Co., Ltd.	(22) 13.01.2017	TSUCHIDA Shinya
BOE Technology Group Co., Ltd.	(54) ORGANIC ELECTROLUMINESCENT DEVICE	IJIMA Yoshihiko
(72) GUO, Yuanhui	(73) Hodogaya Chemical Co., Ltd.	(31) 2009197036
WANG, Hui	(72) HAYASHI, Shuichi	(32) 27.08.2009
WANG, Chun	KABASAWA, Naoaki	(33) Japan
ZHANG, Yisan	YAMAMOTO, Takeshi	(51) H01M 4/04
(31) 201310172698	MOCHIZUKI, Shunji	C01B 32/30
	(31) 2016004843	C01B 32/318
	(32) 14.01.2016	(11) EP3880349

(21) EP19885279.0	KIM, Sung Jong	H01M 10/052
(47) 10.05.2023	KU, Cha Hun	H01M 4/80
(87) US2019060833	KIM, Tae Kyu	H01M 4/02
22.05.2020	KIM, Won Nyeon	(11) EP3742528
(22) 12.11.2019	KANG, Gyung Soo	(21) EP19883889.8
(54) ACTIVATED CARBON ELECTRODE	(31) 20160130071	(47) 19.04.2023
MATERIAL	(32) 07.10.2016	(87) CN2019118828
(73) Pittsburg State University	(33) Korea (Republic)	22.05.2020
Missouri Soybean Merchandising Council	(51) H01M 4/13	(22) 15.11.2019
(72) GUPTA, Ram	H01M 4/04	(54) ELECTROCHEMICAL DEVICE
KAHOL, Pawan	H01M 4/134	(73) Contemporary Ampere Technology Co.,
(31) 201862760730 P	H01M 4/38	Limited
(32) 13.11.2018	H01M 4/62	(72) ZHANG, Xiaowen
(33) United States of America	H01M 10/052	LI, Zhenhua
(51) H01M 4/04	H01M 10/056	JIN, Haizu
H01M 4/134	H01M 10/0562	(31) 201811367022
H01M 4/1395	H01M 10/0565	(32) 16.11.2018
H01M 4/38	H01M 10/42	(33) China
H01M 4/62	H01M 4/02	(51) H01M 4/133
H01M 10/0562	(11) EP3944365	H01M 4/36
H01M 10/0585	(21) EP20930647.1	H01M 4/525
(11) EP3605664	(47) 19.04.2023	H01M 10/0525
(21) EP19187732.3	(87) CN2020086473	H01M 4/587
(47) 10.05.2023	28.10.2021	H01M 4/131
(22) 23.07.2019	(22) 23.04.2020	(11) EP3961769
(54) ALL SOLID STATE BATTERY AND	(54) LITHIUM METAL BATTERY AND	(21) EP20933502.5
METHOD FOR PRODUCING ALL	PREPARATION METHOD THEREFOR,	(47) 19.04.2023
SOLID STATE BATTERY	AND APPARATUS COMPRISING	(87) CN2020088301
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	LITHIUM METAL BATTERY AND	04.11.2021
(72) FUJINO, Shizuka	NEGATIVE ELECTRODE PLATE	(22) 30.04.2020
IWASAKI, Masahiro	(73) Contemporary Ampere Technology Co.,	(54) SECONDARY BATTERY AND
(31) 2018145907	Limited	MANUFACTURING METHOD
(32) 02.08.2018	(72) LI, Qian	THEREFOR, AND APPARATUS
(33) Japan	LIU, Chengyong	COMPRISING SECONDARY BATTERY
(51) H01M 4/04	GUO, Yongsheng	(73) Contemporary Ampere Technology Co.,
H01M 4/139	FU, Jiawei	Limited
H01M 10/054	HU, Bobing	(72) WANG, Jiazheng
H01M 10/0562	CHENG, Meng	KANG, Meng
H01M 4/58	(51) H01M 4/13	DONG, Xiaobin
(11) EP3925023	H01M 4/62	SHEN, Yuliang
(21) EP20707548.2	H01M 4/139	HE, Libing
(47) 10.05.2023	H01M 4/04	(51) H01M 4/36
(87) DE2020000004	H01M 10/052	H01M 4/56
13.08.2020	H01M 4/02	H01M 10/06
(22) 15.01.2020	(11) EP3893293	H01M 4/20
(54) SOLID STATE BATTERY AND METHOD	(21) EP21164649.2	C01G 21/10
FOR PRODUCING SAME	(47) 10.05.2023	(11) EP3900083
(73) Forschungszentrum Jülich GmbH	(22) 07.06.2017	(21) EP19832358.6
(72) LAN, Tu	(54) HIGH LOADING ELECTRODES	(47) 19.04.2023
MA, Qianli	(73) NAVITAS SYSTEMS, LLC	(87) EP2019086290
TIETZ, Frank	(72) Aurora, Peter	25.06.2020
GUILLON, Olivier	Zhang, Pu	(22) 19.12.2019
(31) 102019000841	Wixom, Michael	(54) COATED POWDERY LEAD OXIDE,
(32) 06.02.2019	(31) 201662346799 P	METHOD FOR PRODUCTION
(33) Germany	(32) 07.06.2016	THEREOF, AND USES
(51) H01M 4/04	(33) United States of America	(73) Penox GmbH
H01M 4/66	(51) H01M 4/13	(72) KIRCHGESSNER, Micha
H01M 4/70	H01M 10/0525	BUSSAR, Rainer
(11) EP3382775	H01M 10/42	KLEIN, Ian
(21) EP17858595.6	H01M 4/06	(31) 102018132898
(47) 19.04.2023	C09D 127/16	(32) 19.12.2018
(87) KR2017008575	H01M 4/36	(33) Germany
12.04.2018	H01M 4/525	(51) H01M 4/525
(22) 08.08.2017	H01M 4/58	C01G 53/00
(54) ELECTRODE UNIT AND METHOD FOR	H01M 4/62	H01M 4/36
MANUFACTURING THE SAME	H01M 4/66	H01M 4/485
(73) LG Energy Solution, Ltd.	H01M 10/0568	H01M 4/505
(72) PYO, Jung Kwan	H01M 4/131	(11) EP3007254

(21) EP14794571.1	(11) EP3955348	H01M 4/62
(47) 19.04.2023	(21) EP20933645.2	(11) EP3231034
(87) JP2014062637	(47) 19.04.2023	(21) EP15870800.8
13.11.2014	(87) CN2020088426	(47) 19.04.2023
(22) 12.05.2014	04.11.2021	(87) US2015065546
(54) TRANSITION METAL COMPOSITE	(22) 30.04.2020	23.06.2016
HYDROXIDE PARTICLES, METHOD	(54) NEGATIVE ELECTRODE ACTIVE	(22) 14.12.2015
FOR PRODUCING SAME, POSITIVE	MATERIAL AND METHOD FOR	(54) CATALYST SYSTEM FOR ADVANCED
ELECTRODE ACTIVE MATERIAL	PREPARATION THEREOF,	METAL-AIR BATTERIES
FOR NON-AQUEOUS ELECTROLYTE	SECONDARY BATTERY, AND	(73) The Board of Trustees of the University
SECONDARY BATTERY, METHOD	APPARATUS INCLUDING SECONDARY	of Illinois
FOR PRODUCING SAME, AND	BATTERY	(72) SALEHI-KHOJIN, Amin
NON-AQUEOUS ELECTROLYTE	(73) Contemporary Amperex Technology Co.,	KUMAR, Bijandra
SECONDARY BATTERY	Limited	ASADI, Mohammad
(73) Sumitomo Metal Mining Co., Ltd.	(72) WANG, Jiazheng	(31) 201462091585 P
(72) KAMATA, Yasutaka	DONG, Xiaobin	(32) 14.12.2014
AIDA, Taira	HE, Libing	(33) United States of America
TOYA, Hiroyuki	(51) H01M 4/587	(51) H01M 6/52
(31) 2013100034	C01B 32/205	H01M 10/54
(32) 10.05.2013	C01B 32/05	C22B 7/00
(33) Japan	C01B 32/21	C22B 1/00
(51) H01M 4/525	H01M 4/04	C22B 26/12
H01M 4/505	H01M 4/36	(11) EP3948993
C01G 53/00	H01M 4/505	(21) EP20724144.9
(11) EP3852175	H01M 4/525	(47) 19.04.2023
(21) EP19859230.5	H01M 4/02	(87) EP2020063203
(47) 19.04.2023	(11) EP3955349	19.11.2020
(87) JP2019029805	(21) EP20932960.6	(22) 12.05.2020
19.03.2020	(47) 19.04.2023	(54) PROCESS FOR CRUSHING AN
(22) 30.07.2019	(87) CN2020088415	ELECTROCHEMICAL GENERATOR
(54) METHOD FOR PRODUCING POSITIVE	04.11.2021	(73) Commissariat à l'énergie atomique et aux
ELECTRODE ACTIVE MATERIAL FOR	(22) 30.04.2020	énergies alternatives
LITHIUM ION SECONDARY BATTERY	(54) NEGATIVE ELECTRODE ACTIVE	(72) BILLY, Emmanuel
(73) Kao Corporation	MATERIAL, MANUFACTURING	(31) 1905066
(72) AKAGI, Ryuichi	METHOD THEREFOR, SECONDARY	(32) 15.05.2019
HIRAISHI, Atsushi	BATTERY, AND DEVICE COMPRISING	(33) France
(31) 2018172816	SECONDARY BATTERY	(51) H01M 8/02
(32) 14.09.2018	(73) Contemporary Amperex Technology Co.,	C08G 65/40
(33) Japan	Limited	C08J 5/04
(51) H01M 4/58	(72) KANG, Meng	C08J 5/20
H01M 4/36	DONG, Xiaobin	C08L 71/08
H01M 4/38	WANG, Jiazheng	C08L 79/04
H01M 4/583	HE, Libing	C08L 101/12
H01M 10/05	(51) H01M 4/64	D04H 1/4326
H01M 10/36	H01M 4/66	D04H 1/728
H01M 4/02	H01M 10/052	H01B 1/06
(11) EP3920284	H01M 10/42	H01B 13/00
(21) EP19912721.8	(11) EP3506403	H01M 8/10
(47) 19.04.2023	(21) EP18200693.2	(11) EP3419093
(87) JP2019039068	(47) 10.05.2023	(21) EP17753135.7
06.08.2020	(22) 16.10.2018	(47) 10.05.2023
(22) 03.10.2019	(54) CURRENT COLLECTOR, ELECTRODE	(87) JP2017005176
(54) ACTIVE MATERIAL, NEGATIVE-	PLATE OF THE SAME AND BATTERY	24.08.2017
ELECTRODE ACTIVE MATERIAL,	(73) Contemporary Amperex Technology Co.,	(22) 13.02.2017
AND FLUORIDE-ION SECONDARY	Limited	(54) COMPOSITE POLYMER
BATTERY	(72) LIANG, Chengdu	ELECTROLYTIC MEMBRANE,
(73) Panasonic Holdings Corporation	HUANG, Huafeng	AND MEMBRANE ELECTRODE
(72) KOMORI, Tomoyuki	HUANG, Qisen	COMPOSITE AND SOLID POLYMER
(31) 2019011993	(31) 201711267487	FUEL CELL USING SAME
(32) 28.01.2019	(32) 05.12.2017	(73) Toray Industries, Inc.
(33) Japan	(33) China	Japan Vilene Company, Ltd.
(51) H01M 4/583	(51) H01M 4/90	(72) OKAMOTO Yumiko
H01M 10/0525	H01M 12/08	IZUHARA Daisuke
H01M 4/36	H01M 4/58	YAMAGUCHI Junpei
C01B 32/205	H01M 4/40	SHIRAI Shusuke
H01M 4/587	H01M 4/38	KUNITA Tomoyuki
H01M 4/62	H01M 10/0569	UMEDA Hiroaki
C01B 32/21	H01M 10/052	WAKAMOTO Yuuta

ITO Tatsunori	(22) 21.06.2017	H01M 4/78
MICHIHATA Noriko	(54) BIPOLAR PLATE, CELL STACK, AND REDOX FLOW BATTERY	H01M 4/86
TARAO Takashi	(73) Sumitomo Electric Industries, Ltd.	(11) EP3590144
(31) 2016029079	(72) NAKAISHI, Hiroyuki	(21) EP18705782.3
(32) 18.02.2016	HANAFUSA, Kei	(47) 10.05.2023
(33) Japan	(31) 2016238041	(87) US2018016407
(51) H01M 8/02	(32) 07.12.2016	07.09.2018
H01M 4/86	(33) Japan	(22) 01.02.2018
H01M 4/88	(51) H01M 8/04225	(54) NOVEL MODULAR
H01M 8/12	H01M 8/00	ELECTROCHEMICAL CELL AND
H01M 8/0232	H01M 8/04	STACK DESIGN
H01M 8/0258	H02J 1/00	(73) Saudi Arabian Oil Company
H01M 8/1226	H01M 8/04302	(72) HAMMAD, Ahmad D.
H01M 8/1253	H01M 8/04858	SOUENTIE, Stamatios
H01M 4/90	H02J 9/06	AMR, Issam T.
H01M 8/124	H02J 3/38	(31) 201715447536
(11) EP3444883	(11) EP3347967	(32) 02.03.2017
(21) EP18197138.3	(21) EP16844845.4	(33) United States of America
(47) 10.05.2023	(47) 10.05.2023	(51) H01M 8/2425
(22) 18.09.2015	(87) US2016044283	C25B 1/04
(54) METHOD FOR PRODUCING AN ELECTROCHEMICAL ELEMENT	16.03.2017	H01M 8/1231
(73) Osaka Gas Co., Ltd.	(22) 27.07.2016	C25B 15/08
(72) ECHIGO, Mitsuaki	(54) FUEL CELL SYSTEM RIDE-THROUGH OF ELECTRIC GRID DISTURBANCES	C25B 9/00
OHNISHI, Hisao	(73) Fuelcell Energy, Inc.	H01M 8/12
MANABE, Kyohei	(72) BERNTSEN, George	C25B 9/23
YAMAZAKI, Osamu	PASQUALE, Nicholas	C25B 9/73
MINAMI, Kazuyuki	(31) 201514849274	C25B 9/77
TSUDA, Yuji	(32) 09.09.2015	H01M 8/124
(31) 2014192029	(33) United States of America	(11) EP3499626
(32) 19.09.2014	(51) H01M 8/06	(21) EP18211858.8
(33) Japan	H01M 8/18	(47) 19.04.2023
(51) H01M 8/0234	H01M 8/20	(22) 12.12.2018
H01M 8/0245	H01M 8/1023	(54) REVERSIBLE SYSTEM FOR
H01M 8/0247	H01M 8/1039	STORING AND EXTRACTING
H01M 8/0271	H01M 8/1051	ELECTRICAL POWER COMPRISING
H01M 8/18	H01M 8/1053	AN ELECTROCHEMICAL CONVERTER
H01M 8/20	H01M 8/04223	(SOFC/SOEC) CONNECTED TO A
H01M 4/86	H01M 4/90	SYSTEM FOR COMPRESSED AIR
(11) EP3525274	(11) EP3050149	EXTRACTION/STORAGE (CAES)
(21) EP18761044.9	(21) EP14847451.3	(73) Commissariat à l'Energie Atomique et
(47) 19.04.2023	(47) 10.05.2023	aux Energies Alternatives
(87) KR2018002335	(87) US2014057129	(72) REYTIER, Magali
07.09.2018	02.04.2015	ROUX, Guilhem
(22) 26.02.2018	(22) 24.09.2014	(31) 1762045
(54) ELECTRODE STRUCTURE AND REDOX FLOW BATTERY COMPRISING SAME	(54) ELECTROLYTE BALANCING STRATEGIES FOR FLOW BATTERIES	(32) 13.12.2017
(73) LG Chem, Ltd.	(73) Lockheed Martin Energy, LLC	(33) France
(72) LEE, Jeongbae	(72) REECE, Steven Y.	(51) H01M 8/2485
NOH, Tae Geun	BADRINARAYANAN, Paravastu	H01M 8/12
BYUN, Sujin	TYAGI, Nitin	H01M 8/0276
PARK, Joon Ho	GREJTAK, Timothy B.	H01M 8/243
MOON, Sikwon	(31) 201361882324 P	C25B 1/04
KIM, Sungeon	(32) 25.09.2013	C25B 9/73
(31) 20170026394	(33) United States of America	H01M 8/0282
(32) 28.02.2017	(51) H01M 8/1018	H01M 8/124
(33) Korea (Republic)	H01M 8/2475	(11) EP3534449
(51) H01M 8/026	(11) EP3944385	(21) EP17866128.6
H01M 8/24	(21) EP20187466.6	(47) 10.05.2023
H01M 8/2455	(47) 19.04.2023	(87) JP2017038732
H01M 8/2483	(22) 23.07.2020	03.05.2018
H01M 8/18	(54) REMOVABLE LOAD CELL DESIGN FOR FUEL CELL STACK	(22) 26.10.2017
(11) EP3553864	(73) AVL List GmbH	(54) CELL STACK DEVICE, MODULE, AND
(21) EP17878541.6	AVL Fuel Cell Canada Inc.	MODULE STORAGE DEVICE
(47) 10.05.2023	(72) MANN, Paul	(73) KYOCERA Corporation
(87) JP2017022929	(51) H01M 8/18	(72) SUGIHARA, Kazunari
14.06.2018	(32) 23.03.2017	KOI, Makoto
		(31) 2017057653
		2016210735
		(32) 23.03.2017

27.10.2016	GSCHEIDLE, Lars	(32) 14.07.2017
(33) Japan	PLUMM, Jürgen	(33) China
Japan	URBAN, Jochen	(51) H01M 10/0567
(51) H01M 10/04	(51) H01M 10/0525	H01M 10/0569
H01M 10/0525	H01M 4/13	H01G 11/64
H01M 10/0587	(11) EP3965201	H01G 11/60
(11) EP4086996	(21) EP20927018.0	H01G 11/62
(21) EP21816298.0	(47) 19.04.2023	(11) EP3724943
(47) 10.05.2023	(87) CN2020081688	(21) EP18812213.9
(87) CN2021079604	30.09.2021	(47) 10.05.2023
15.09.2022	(22) 27.03.2020	(87) EP2018084385
(22) 08.03.2021	(54) SECONDARY BATTERY AND DEVICE	20.06.2019
(54) WOUND ELECTRODE ASSEMBLY, BATTERY CELL, BATTERY, AND ELECTRICAL DEVICE	CONTAINING SAME	(22) 11.12.2018
(73) Contemporary Amperex Technology Co., Limited	(73) Contemporary Amperex Technology Co., Limited	(54) ELECTROLYTE COMPOSITION COMPRISING OLIGOMERIC SILYL ESTER PHOSPHONATES
(72) SHANGGUAN, Huihui	(72) MA, Jianjun	(73) BASF SE
TANG, Daichun	SHEN, Rui	(72) MENDEZ AGUDELO, Manuel Alejandro
DU, Xinxin	HE, Libing	HOECKER, Johannes David
BAI, Ziyu	CHEN, Lei	(31) 17206915
QIN, Ruihuan	ZHU, Baojian	(32) 13.12.2017
(51) H01M 10/04	(51) H01M 10/0525	(33) European Patent Office (EPO)
H01M 50/103	H01M 10/0567	(51) H01M 10/0587
H01M 50/105	H01M 10/0568	H01M 50/103
H01M 50/342	(11) EP3686981	H01M 50/296
H01M 50/536	(21) EP19174332.7	H01M 10/42
H01M 50/54	(47) 10.05.2023	H01M 50/30
H01M 10/52	(22) 14.05.2019	H01M 50/533
(11) EP3392924	(54) ELECTROLYTE FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY CONTAINING THE SAME	H01M 50/538
(21) EP17167210.8	(73) HYUNDAI MOTOR COMPANY	H01M 50/564
(47) 10.05.2023	Kia Corporation	H01M 50/50
(22) 20.04.2017	UNIST (Ulsan National Institute of Science and Technology)	(11) EP3852166
(54) BATTERY CELL	(72) LEE, Yoon Sung	(21) EP19886853.1
(73) Robert Bosch GmbH	CHO, Jung Young	(47) 19.04.2023
GS Yuasa International Ltd.	KIM, Ikkyu	(87) CN2019119736
(72) Bach, Tobias	OH, Seung-Min	28.05.2020
Liebenow, Cornelius	KIM, DongHui	(22) 20.11.2019
(51) H01M 10/04	CHOI, Nam-Soon	(54) CURRENT COLLECTING MEMBER, SECONDARY BATTERY AND FABRICATION METHOD
H01M 50/202	KIM, Koeun	(73) Contemporary Amperex Technology Co., Limited
H01M 10/613	LEE, Juyeon	(72) XU, Hu
H01M 10/653	PARK, Sung Ji	REN, Miaomiao
(11) EP3921884	(31) 20190008614	CHEN, Yuanbao
(21) EP20712929.7	(32) 23.01.2019	XU, Long
(47) 19.04.2023	(33) Korea (Republic)	ZHENG, Donglai
(87) EP2020057571	(51) H01M 10/0567	ZHU, Lingbo
22.10.2020	H01M 10/0525	LIN, Yongshou
(22) 19.03.2020	H01M 6/16	(31) 201821940481 U
(54) METHOD FOR PRODUCING A BATTERY ARRANGEMENT	H01G 11/64	(32) 22.11.2018
(73) Atlas Copco IAS GmbH	H01G 11/06	(33) China
(72) TOLK, Marten	(11) EP3528331	(51) H01M 10/42
MÖSSNER, Udo	(21) EP17917531.0	B25F 5/02
(31) 102019109905	(47) 19.04.2023	H01M 50/209
(32) 15.04.2019	(87) CN2017093306	H01M 50/543
(33) Germany	17.01.2019	(11) EP3555948
(51) H01M 10/0525	(22) 18.07.2017	(21) EP17879935.9
G01M 99/00	(54) ELECTROLYTE AND	(47) 10.05.2023
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(22) 04.12.2019	MIAO, Lu	(72) RADOVICH, Kyle, J.
(54) TEST CHAMBER AND METHOD FOR TESTING TEST MATERIAL	LIANG, Chengdu	SCHULZ, Cameron, R.
(73) Weiss Technik GmbH	(31) 201710574732	(31) 201662435453 P
(72) ARNOLD, Dominik Pascal		(32) 16.12.2016

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(87) KR2018007826	(54) SYSTEMS, STRUCTURES AND	(22) 26.03.2020
31.01.2019	MATERIALS FOR ELECTROCHEMICAL	(54) BATTERY PACK
(22) 10.07.2018	DEVICE THERMAL MANAGEMENT	(73) Contemporary Amperex Technology Co.,
(54) METHOD FOR REGENERATING	(73) Latent Heat Solutions, LLC	Limited
ELECTROCHEMICAL CELLS	(72) HARTMANN, Mark	(72) CHEN, Xingdi
(73) LG Energy Solution, Ltd.	KELLY, Joseph	YOU, Kaijie
(72) HONG, Chul Gi	(31) 201514614223	WANG, Peng
LEE, Jae Hyun	(32) 04.02.2015	WANG, Yongguang
KIM, Dong Kyu	(33) United States of America	LU, Zequan
KIM, Dae Soo	(51) H01M 10/653	(31) 201910794301
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(33) Korea (Republic)	(11) EP3876303	(51) H01M 50/264
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(47) 10.05.2023	(54) BATTERY MODULE AND BATTERY	(22) 22.05.2019
(87) EP2017083553	PACK INCLUDING SAME	(54) A BATTERY PACK
26.07.2018	(73) LG Energy Solution, Ltd.	(73) Contemporary Amperex Technology Co.,
(22) 19.12.2017	(72) KIM, Soo Youl	Limited
(54) SYSTEM FOR PERMANENTLY	PARK, Junkyu	(72) CHEN, Xingdi
MARKING AT LEAST ONE BATTERY	YOON, Han Ki	YOU, Kaijie
COMPONENT	(31) 20190069232	ZHOU, Linggang
(73) INTILION GmbH	(32) 12.06.2019	WANG, Peng
(72) WINKLER, Norman	(33) Korea (Republic)	XIANG, Yanhuo
NAWRATH, Thomas	(51) H01M 50/179	CHEN, Ning
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(54) BATTERY PACK INTERFACE SYSTEM	WELDING STRUCTURE	H01M 50/342
(73) HUSQVARNA AB	(73) LG Energy Solution, Ltd.	H01M 50/55
(72) WILLGERT, Mikael	(72) PARK, Jong Pil	(11) EP3923405
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H01R 11/22	(22) 04.07.2019	PACK AND DEVICE
(11) EP3886206	(54) PROTECTOR AND BUS BAR MODULE	(73) Contemporary Amperex Technology Co.,
(21) EP20165657.6	(73) YAZAKI CORPORATION	Limited
(47) 10.05.2023	(72) ICHIKAWA, Yoshiaki	(72) BAI, Lulu
(22) 25.03.2020	MAKINO, Kimitoshi	(31) 201922387308 U
(54) MEASURING ASSEMBLY FOR	KOBAYASHI, Makoto	(32) 26.12.2019
MEASURING A TEMPERATURE AND A	YASUDA, Tomoji	(33) China
VOLTAGE	TAKAMATSU, Masahiro	(51) H01M 50/403
(73) Samsung SDI Co., Ltd.	(31) 2018144235	H01M 50/42
(72) Haring, Fritz	2018130912	H01M 50/426
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QUINTERO ILLERA, Ramiro	(47) 10.05.2023	(11) EP3637547
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(54) SHEET HAVING DIELECTRIC OR MAGNETO-DIELECTRIC PROPERTIES	(32) 30.08.2019	(31) 107135687
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BENWADIH, Mohammed	H01Q 5/378	(51) H01Q 15/14
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(22) 26.03.2018	(33) Japan	WANG, Qiang
(54) MULTI-BAND ANTENNA DRIVE DEVICE	(51) H01Q 9/04	LI, Mingchao
(73) Shenzhen Zhaowei Machinery&electronics Co., Ltd.	H01Q 5/50	HUANG, Liwen
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H01Q 21/00	(72) ZHINONG, Ying	H01Q 21/24
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(47) 10.05.2023	(54) ELEMENTARY ANTENNA COMPRISING A PLANAR RADIATING DEVICE	SUN, Weihua
(87) US2018055613	(73) Thales	QIN, Zuojun
18.04.2019	Université de Bordeaux	HE, Pinghua
(22) 12.10.2018	Institut Polytechnique de Bordeaux	(51) H01Q 21/29
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(73) Quintel Cayman Limited	(72) GARREC, Patrick	H01Q 19/30
(72) SONG, Peter Chun Teck	GHIOTTO, Anthony	H01Q 21/20
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(54) ANTENNA ARRAY AND WIRELESS COMMUNICATION DEVICE	H01R 13/50	(73) Siemens Aktiengesellschaft
(73) Huawei Technologies Co., Ltd.	H01R 13/506	(72) YE, Wenmin
(72) ZHU, Maomao	H01R 13/58	COX, Ned
YUAN, Bo	H01R 43/28	<hr/>
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(54) CONNECTION DEVICE FOR A CONDUCTOR END	(31) 201862781826 P	KUMAKURA, Susumu
(73) Weidmüller Interface GmbH & Co. KG	201862668534 P	(31) 2014235554
(72) HERRMANN, Michael	(32) 19.12.2018	2013259194
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FEHLING, Stephan	United States of America	(33) Japan
MAERTIN, Claus	<hr/>	Japan
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(21) EP18730465.4	(22) 09.09.2021	(54) BATTERY TERMINAL AND METHOD FOR PRODUCING A BATTERY TERMINAL
(47) 10.05.2023	(54) CONNECTOR	(73) HELLA GmbH & Co. KGaA
(87) US2018030439	(73) Japan Aviation Electronics Industry, Limited	(72) ZIMMERMANN, Katrin
15.11.2018	(72) TANAKA, Masashi	UNTERHALT, Marco
(22) 01.05.2018	(31) 2020186441	(31) 102015107044
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(73) TE Connectivity Corporation	(33) Japan	(33) Germany
Tyco Electronics Canada ULC	<hr/>	<hr/>
(72) MURUGIAH, Sachidanandan	(51) H01R 9/24	(51) H01R 12/57
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MITCHELL, Steve	H01R 13/46	H01R 13/41
GUPPY, Jonathan	(11) EP3678262	H05K 1/00
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(32) 24.04.2018	(22) 03.01.2020	(47) 19.04.2023
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(33) United States of America	(73) Switchlab Inc.	(54) BOARD MOUNT CONNECTOR AND CONNECTOR-MOUNTED BOARD
United States of America	Switchlab (Shanghai) Co., Ltd.	(73) Yazaki Corporation
<hr/>	Gaocheng Electronics Co., Ltd.	(72) Sawairi, Kaoru
(51) H01R 9/05	(72) WU, Chih-Yuan	Nagasaka, Naokazu
H01R 4/02	HSU, Wen Bing	Takamura, Naoki
H01R 13/6593	(31) 108100359	Wada, Kotarou
H01R 103/00	(32) 04.01.2019	(31) 2021065459
H01R 43/02	(33) Taiwan, Chinese Taipei	(32) 07.04.2021
(11) EP4016744	<hr/>	(33) Japan
(21) EP21213310.2	(51) H01R 9/26	<hr/>
(47) 10.05.2023	H01R 13/10	(51) H01R 12/70
(22) 09.12.2021	H01R 13/24	H01R 12/71
(54) BRAIDED PART CONNECTION STRUCTURE	H05K 7/14	H01R 12/72
(73) Yazaki Corporation	H01R 12/71	(11) EP3769371
(72) Watanabe, Kazuma	(11) EP3050170	(21) EP19715373.7
Mizuno, Hideki	(21) EP13780246.8	(47) 10.05.2023
Yamaguchi, Yasuhiro	(47) 19.04.2023	(87) DE2019100219
(31) 2020210715	(87) US2013062076	26.09.2019
(32) 18.12.2020	02.04.2015	(22) 12.03.2019
(33) Japan	(22) 27.09.2013	

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(73) HARTING Electric GmbH & Co. KG	H01R 24/50	(73) Yazaki Corporation
(72) KLIEVER, Wilhelm	H01R 13/6477	(72) KOZONO, Seiji
(31) 102018106686	H01R 13/659	TSUSHIMA, Yoshitaka
(32) 21.03.2018	H01R 101/00	OKAMOTO, Masaya
(33) Germany	(11) EP3830907	(31) 2021064303
(51) H01R 12/71	(21) EP19746079.3	(32) 05.04.2021
H01R 12/52	(47) 19.04.2023	(33) Japan
(11) EP3595093	(87) EP2019070235	(51) H01R 13/46
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(47) 19.04.2023	(22) 26.07.2019	H01R 13/641
(22) 04.06.2019	(54) EDGE CONNECTOR AND PRINTED CIRCUIT BOARD ASSEMBLY	H01R 13/627
(54) BOARD-MATING CONNECTOR SYSTEM WITH REDUCED COUPLING HEIGHT	(73) IMS Connector Systems GmbH	(11) EP3979429
(73) GigaLane Co., Ltd.	(72) MÜLLINGER-BAUSCH, Christoph	(21) EP21199469.4
(72) SONG, Hwa Yoon	BAUMGÄRTNER, Roland	(47) 10.05.2023
SEO, Sang Min	REGENBRECHT, Michael	(22) 28.09.2021
KIM, Eun Jung	(31) 202018106554 U	(54) ELECTRICAL CONNECTOR WITH LOCKING SPRING
LEE, Jin Uk	102018118224	(73) Tyco Electronics France SAS
JUNG, Kyung Hun	(32) 27.07.2018	(72) ROUILLARD, Xavier
JUNG, Hee seok	27.07.2018	PAMART, Olivier
(31) 20180089973	(33) Germany	LORD, Steven
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(33) Korea (Republic)	(11) EP3800742	(51) H01R 13/514
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(51) H01R 12/71	(47) 19.04.2023	H01R 13/652
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H01R 13/629	(54) ELECTRICAL CONNECTOR	H01R 43/18
H01R 13/633	(73) HIROSE ELECTRIC CO., LTD.	H01R 43/20
H01R 25/00	(72) DOI, Kentaro	(11) EP3217483
H01R 27/00	(31) 2019182007	(21) EP17163616.0
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H04B 1/3818	(33) Japan	(22) 11.12.2014
H04M 1/02	(51) H01R 13/00	(54) CLAMPING FRAME FOR A CONNECTOR
(11) EP3893331	(11) EP3958403	(73) Harting Electric GmbH & Co. KG
(21) EP19893422.6	(21) EP21181023.9	(72) Herbrechtsmeier, Heiko
(47) 10.05.2023	(47) 10.05.2023	(31) 102013113976
(87) CN2019117437	(22) 23.06.2021	102013113975
11.06.2020	(54) NETWORK COMMUNICATION DEVICE SET AND TRANSFORMER	(32) 12.12.2013
(22) 12.11.2019	(73) Sernet (Suzhou) Technologies Corporation	12.12.2013
(54) MOBILE TERMINAL	Sercomm Corporation	(33) Germany
(73) VIVO MOBILE COMMUNICATION CO., LTD.	(72) HO, Lili	Germany
(72) LI, Manlin	(31) 202010838600	(51) H01R 13/518
(31) 201811482012	(32) 19.08.2020	H01R 13/514
(32) 05.12.2018	(33) China	H01R 13/74
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(51) H01R 12/72	H01R 13/631	(11) EP3613107
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H01R 4/2407	(47) 19.04.2023	(87) DE2018100331
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H01R 4/2454	(54) Terminal and connector using the same	(22) 11.04.2018
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(47) 10.05.2023	Tanaka, Akihiro	(72) TIEMANN, Andre
(22) 17.12.2019	Miyoshi, Toshiharu	MEIER, Heiko
(54) HIGH CONTACT DENSITY ELECTRICAL CONNECTOR	(31) 2013200977	BENEKE, Andre
(73) TE Connectivity Italia Distribution S.r.l.	(32) 27.09.2013	ZIEGENHAHN, Jörg
(72) CHIARELLI, Davide	(33) Japan	(31) 102017108433
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(11) EP3410543	(73) Yazaki North America, Inc.	Kämer, Markus
(21) EP18174508.4	(72) Mauney, Joseph A.	(31) 102020000422
(47) 19.04.2023	Naegelin, Conrad	(32) 24.01.2020
(22) 28.05.2018	Stock, Chris W.	(33) Germany
(54) SPLICE CONNECTOR ASSEMBLIES	Liu, Jeffrey L.	(51) H01R 35/04
(73) ITT Manufacturing Enterprises LLC	(31) 201314105616	B60R 16/027
(72) FINONA, Michael Santos	(32) 13.12.2013	B62D 1/04
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(51) H01R 13/622	(47) 19.04.2023	(22) 03.10.2019
H01R 13/533	(22) 11.02.2020	(54) ROTARY CONNECTOR DEVICE
H01R 13/639	(54) DATA CABLE CONNECTOR FOR DATA TRANSMISSION	(73) FURUKAWA ELECTRIC CO., LTD.
(11) EP3528346	(73) ERICH JAEGER GmbH + Co. KG	Furukawa Automotive Systems Inc.
(21) EP18305163.0	(72) Markefka, Klaus	(72) SHIOTANI Yoshihiro
(47) 10.05.2023	(51) H01R 13/6592	TAJIRI Yoji
(22) 16.02.2018	H01R 13/6597	ARAKAWA Hayato
(54) ELECTRICAL CONNECTOR ASSEMBLY	H01R 13/70	(31) 2018190244
(73) Connecteurs Electriques Deutsch	(11) EP3595100	(32) 05.10.2018
(72) BRUNET, Martin	(21) EP19184980.1	(33) Japan
CASSAR, Thierry	(47) 19.04.2023	(51) H01R 39/48
ALIBERT, Jean-Luc	(22) 08.07.2019	(11) EP3736919
LE GOURRIER, Sylvain	(54) CONTACT DEVICE AND CONTACT SYSTEM	(21) EP20173094.2
(51) H01R 13/627	(73) TE Connectivity Germany GmbH	(47) 19.04.2023
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H01R 13/436	Klingler, Dominik	(54) ELECTRICAL ROTARY JOINT DEVICE CONFIGURED TO EQUIP AN INSTALLATION FOR EXPLOITING FLUIDS, IN PARTICULAR ON AN OFFSHORE PLATFORM
(11) EP4064465	(31) 102018116566	(73) ETI Group
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(47) 19.04.2023	(33) Germany	EBLE, Jean-Claude
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(54) CONNECTOR UNIT	H01R 13/533	(32) 09.05.2019
(73) Yazaki Corporation	H01R 13/621	(33) France
(72) Ikeya, Kazuhide	(11) EP3537548	(51) H01S 3/00
Tobino, Koutaro	(21) EP19162045.9	B23K 26/06
Sakurai, Yoshizumi	(47) 10.05.2023	B23K 26/067
(31) 2021050052	(22) 11.03.2019	G02B 27/48
(32) 24.03.2021	(54) CONNECTOR WITH VIBRATION LIMITING COMPRESSION PROTRUSIONS	(11) EP3593421
(33) Japan	(73) Yazaki North America, Inc.	(21) EP18709526.0
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H01R 103/00	(32) 09.03.2018	(54) METHOD AND DEVICE FOR SHAPING RADIATION FOR LASER PROCESSING
(11) EP3607617	(33) United States of America	(73) Robert Bosch GmbH
(21) EP17916455.3	(51) H01R 24/20	(72) MIKHAYLOV, Dmitriy
(47) 19.04.2023	H01R 24/28	GAUCH, Roland
(87) TR2017050690	H01R 24/00	GRAF, Tobias
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(22) 22.12.2017	A61M 16/10	(32) 07.03.2017
(54) CABLE CONNECTOR	A61M 16/08	(33) Germany
(73) Nova Elektrik Sanayi Ve Ticaret Anonim Sirketi	A61M 16/16	(51) H01S 3/00
(72) ATALAY, Suavi	H01R 13/46	H01S 3/13
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(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	LUO, Xuan	(11) EP3855586
(72) DE VRIES, Oliver	(31) 201562242568 P	(21) EP18937941.5
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(33) Germany	(11) EP3926766	(72) SHOHDA, Fumio
Germany	(21) EP20382534.4	YANAGISAWA, Takayuki
(51) H01S 3/067	(47) 19.04.2023	KAMEYAMA, Shumpei
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(21) EP18750342.0	(54) NETWORKS OF COUPLED RANDOM LASERS WITH SPATIALLY LOCALISED FEEDBACK	(11) EP3568886
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(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	H01S 3/00	(54) VERTICAL-CAVITY SURFACE-EMITTING LASER
Friedrich-Schiller-Universität Jena	G02B 6/38	(73) Technische Universität Berlin
(72) STIHLER, Christoph	G02B 6/42	(72) BIMBERG, Dieter
JÁUREGUI MISAS, César	A61B 18/22	LARISCH, Gunter
LIMPERT, Jens	H01S 3/094	LOTT, James A.
TÜNNERMANN, Andreas	H01S 3/16	(31) 201715404786
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(54) Gain-equalized few-mode fiber amplifier	(32) 04.10.2017	(22) 19.05.2016
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(51) H01S 3/08	(54) METHOD FOR PRODUCING A DISTRIBUTED BRAGG MIRROR	H01S 3/08
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(72) ZEDIKER, Mark	H02G 3/12	(73) Tyco Electronics Raychem GmbH
FEVE, Jean Philippe	H02B 1/30	(72) KEHL, Ladislaus
SA, Matthew Silva	H05K 5/00	(51) H02H 7/20
JANSEN, Michael	H02G 3/08	H01L 31/02
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(72) Apfelbacher, Walter	(32) 15.12.2017	(73) Solaredge Technologies Ltd.
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(11) EP3525303	E04B 9/00	Galin, Yoav
(21) EP19156191.9	H02J 50/00	Handelsman, Lior
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(51) H02B 3/00	(51) H02G 9/00	(73) Arçelik Anonim Sirketi
(11) EP3756251	H02G 15/10	(72) KANAT, Melih Ilkay
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(47) 10.05.2023	H02G 15/14	POLAT, Akif Hakkı
(87) DE2019100274	H02G 15/16	(31) 202007489
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(22) 22.03.2019	H02G 9/12	(33) Turkey
(54) METHOD FOR PROCESSING AT LEAST ONE ELECTRICAL CABINET	H02G 1/10	(51) H02J 3/00
(73) Rittal GmbH & Co. KG	H01R 13/523	H02J 3/02
(72) HAIN, Markus	(11) EP3618210	(11) EP3832828
HOLIGHAUS, Heiko	(21) EP17907009.9	(21) EP19212874.2
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(33) Germany	(54) JUNCTION BOX AND OFFSHORE POWER GENERATION SYSTEM USING JUNCTION BOX	(72) Lebioda, Thomas Jan
(51) H02B 11/127	(73) Zhongtian Technology Marine Systems Co., Ltd.	Wolf, Matthias
H02B 3/00	Jiangsu Zhongtian Technology Co., Ltd.	Michelsen, Sönke
H02B 1/52	(72) XUE, Jiping	Wehling, Frank
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(54) MOTORIZED DRIVE FOR RACKING OPERATION IN A MEDIUM VOLTAGE SWITCHGEAR	YANG, Huayong	(11) EP3389158
(73) ABB Schweiz AG	GUO, Chaoyang	(21) EP16872727.9
(72) Magno, Giorgio	ZHU, Zongjun	(47) 10.05.2023
Magoni, Stefano	(51) H02G 15/064	(87) JP2016081702
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(73) Hitachi, Ltd.		
(72) KATO Daichi	(51) H02J 5/00	(51) H02J 7/00
SAITO Nao	H02M 7/797	H02J 7/34
YATSU Masahiro	H02M 7/5387	(11) EP3327891
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(33) Japan	(47) 19.04.2023	(22) 23.11.2017
(51) H02J 3/01	(22) 18.06.2021	(54) ELECTRONIC DEVICE AND
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(51) H02P 3/26	(54) DEVICE FOR DRIVING A PLURALITY OF MOTORS AND ELECTRIC APPARATUS INCLUDING THE SAME	F02D 41/14
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ZHANG, Sheng	H04L 9/06	CHEN, Yuan
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(72) CASTELLANI, Andrea	(31) 102017010460	United States of America
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FUNCTION FOR MARKING A FOOD ON	Fidrich, Márta	REAL TIME GUIDED BIOPSIES
AN ELECTRIC COOKING APPLIANCE	Nyiri, Gergely	(73) Consejo Superior de Investigaciones
(73) SEB S.A.	Kriston, András	Científicas (CSIC)
(72) VOLATIER, Sébastien	Sprencz, Pál Csongor	Universitat de València
(74) dr. R.C. van Duijvenbode c.s.	Bara, Norbert	(72) CABALLERO ONTANAYA, Luis
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(73) Boston Scientific Scimed, Inc.	(72) VANVLEET, David W.	TREATMENT DEVICE HAVING SUCH A
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KING, Joseph W.	LYON, Thomas R.	(73) Ferton Holding S.A.
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LLC	(72) CHMELAR, Erik, Vaclav	(72) LASHINSKI, Randall
(72) HEAVEY, Cathal	PHILLIPP, Christopher	MACAULAY, Patrick
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(72) LLOYD, Gary	C07C 211/14	SCHUETZ, Christian
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A61P 9/12	PREPARATION	(73) VIIV Healthcare UK (No.5) Limited
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METHOD FOR PREPARATION	SHARMA, Sreevalli	(47) 01.03.2023
THEREOF, AND USE THEREOF	NANDISHAIAH, Radha	(51) C07D 498/04
(73) InventisBio Co., Ltd.	RAMACHANDRAN, Vasanthi	A61K 31/5365
(72) JIANG, Yueheng	(74) ir. W.J.J.M. Kempes	A61P 31/00
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A61K 31/506	MODULATORS	RAMACHANDRAN, Vasanthi
A61P 31/00	(73) Idorsia Pharmaceuticals Ltd	(74) ir. W.J.J.M. Kempes
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WEBB, Damien	IMMUNOMODULATORS	(72) Jennewein, Stefan
(74) ir. A. Blokland c.s.	(73) Incyte Corporation	(74) dr. A. Krebs
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(00) 14.12.2022	

VRB

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

(11) 2030716
(48) 19.04.2023
(00) Correction priority date
(51) G01N 15/06
G06F 30/20

CO

Ingeschreven overdrachten.

Contains data concerning registered assignments or change of owners.

(71) KamPa B.V.	(51) B62M 6/65	(00) Change of Legal Entity
(73) KamPa B.V.	(00) Change of owner(s) name	(71) IVECO FRANCE S.A.S.
(11) 2000596	(71) IVECO FRANCE S.A.S.	(73) IVECO FRANCE S.A.S.
(00) 07.04.2023	(73) IVECO FRANCE S.A.S.	(11) EP1864850
(51) E01B 3/20	(11) EP1733910	(00) 06.04.2023
(00) Assignment	(00) 06.04.2023	(51) B60N 2/06
(71) KamPa B.V.	(51) B60K 6/12	B60N 2/30
(73) KamPa B.V.	(00) Change of Legal Entity	(00) Change of Legal Entity
(11) 2011036	(71) IVECO FRANCE S.A.S.	(71) IVECO FRANCE S.A.S.
(00) 07.04.2023	(73) IVECO FRANCE S.A.S.	(73) IVECO FRANCE S.A.S.
(51) E01B 11/54	(11) EP1754617	(11) EP1956207
(00) Assignment	(00) 06.04.2023	(00) 06.04.2023
(71) Oracle America, Inc.	(51) B60J 5/04	(51) B60K 15/00
(73) Oracle America, Inc.	E05F 15/20	F01N 3/20
(11) EP1471430	(00) Change of Legal Entity	(00) Change of Legal Entity
(00) 06.04.2023	(71) IVECO FRANCE S.A.S.	(71) IVECO FRANCE S.A.S.
(51) G06F 12/10	(73) IVECO FRANCE S.A.S.	(73) IVECO FRANCE S.A.S.
G06F 13/16	(11) EP1787613	(11) EP2075173
(00) Merge	(00) 06.04.2023	(00) 06.04.2023
(71) IVECO FRANCE S.A.S.	(51) A61G 3/06	(51) B62D 23/00
(73) IVECO FRANCE S.A.S.	(00) Change of Legal Entity	B62D 27/02
(11) EP1681225	(71) HL Mando Corporation	(00) Change of Legal Entity
(00) 06.04.2023	(73) HL Mando Corporation	(71) IVECO FRANCE S.A.S.
(51) B60R 19/00	(11) EP2711283	(73) IVECO FRANCE S.A.S.
B62D 25/18	(00) 06.04.2023	(11) EP2192005
B62D 29/04	(51) B62M 6/40	(00) 06.04.2023
(00) Change of Legal Entity	(00) Change of owner(s) name	(51) B60R 13/02
(71) IVECO FRANCE S.A.S.	(71) IVECO FRANCE S.A.S.	(00) Change of Legal Entity
(73) IVECO FRANCE S.A.S.	(73) IVECO FRANCE S.A.S.	(71) IVECO FRANCE S.A.S.
(11) EP1688296	(11) EP1859996	(73) IVECO FRANCE S.A.S.
(00) 06.04.2023	(00) 06.04.2023	(11) EP2066002
(51) B60K 31/04	(51) A61G 3/06	(00) 06.04.2023
(00) Change of Legal Entity	B60P 1/43	(51) B60L 11/18
(71) HL Mando Corporation	B60R 3/02	H02J 7/14
(73) HL Mando Corporation	B61D 23/02	(00) Change of Legal Entity
(11) EP2711284	(00) Change of Legal Entity	(71) IVECO FRANCE S.A.S.
(00) 06.04.2023	(71) IVECO FRANCE S.A.S.	(73) IVECO FRANCE S.A.S.
(51) B62M 6/45	(73) IVECO FRANCE S.A.S.	(11) EP2202103
(00) Change of owner(s) name	(11) EP1932697	(00) 06.04.2023
(71) HL Mando Corporation	(00) 06.04.2023	(51) B60G 3/26
(73) HL Mando Corporation	(51) B60H 1/00	B60G 7/00
(11) EP2711285	B60H 1/32	(00) Change of Legal Entity
(00) 06.04.2023	B61D 27/00	(71) HL Mando Corporation
(51) B62M 6/45	(00) Change of Legal Entity	(73) HL Mando Corporation
(00) Change of owner(s) name	(71) IVECO FRANCE S.A.S.	(11) EP2711280
(71) RRS Holding B.V.	(73) IVECO FRANCE S.A.S.	(00) 06.04.2023
(73) RRS Holding B.V.	(11) EP1932691	(51) B62K 15/00
(11) EP1817185	(00) 06.04.2023	B62M 6/55
(00) 07.04.2023	(51) B60G 3/20	(00) Change of owner(s) name
(51) B60G 11/26	B60G 7/00	(71) IVECO FRANCE S.A.S.
B60G 17/04	B62D 7/18	(73) IVECO FRANCE S.A.S.
B60G 17/056	(00) Change of Legal Entity	(11) EP2202104
F16F 9/06	(71) IVECO FRANCE S.A.S.	(00) 06.04.2023
F16F 9/34	(73) IVECO FRANCE S.A.S.	(51) B60G 7/02
F16F 9/504	(11) EP2075175	B60G 9/02
(00) Assignment	(00) 06.04.2023	B60G 21/05
(71) HL Mando Corporation	(51) B60K 1/02	(00) Change of Legal Entity
(73) HL Mando Corporation	B60K 7/00	(71) IVECO FRANCE S.A.S.
(11) EP2711286	B60K 17/04	(73) IVECO FRANCE S.A.S.
(00) 06.04.2023	B62D 31/02	(11) EP2201920
	B62D 47/02	(00) 06.04.2023

(51) A61G 3/08	(11) EP2039557	(00) 06.04.2023
B60N 2/01	(00) 06.04.2023	(51) B62D 47/00
B60N 2/24	(51) B60L 1/00	B62D 53/00
B62D 47/02	B60L 1/02	B62D 53/02
(00) Change of Legal Entity	B60L 11/00	B62D 53/08
(71) HL Mando Corporation	B60L 11/16	(00) Change of Legal Entity
(73) HL Mando Corporation	B60L 11/18	(71) VM Holding B.V.
(11) EP2519436	B60M 7/00	(73) VM Holding B.V.
(00) 06.04.2023	(00) Change of Legal Entity	(11) 2026728
(51) B62K 15/00	(71) HL Mando Corporation	(00) 06.04.2023
B62M 23/02	(73) HL Mando Corporation	(51) B29D 30/54
B62M 6/40	(11) EP2711279	B29D 30/58
B62M 6/65	(00) 06.04.2023	B29D 30/66
(00) Change of owner(s) name	(51) B62K 3/10	(00) Assignment
(71) Friedrich Miescher Institute for Biomedical Research	B62K 15/00	(71) HL Mando Corporation
(73) Friedrich Miescher Institute for Biomedical Research	B62K 25/00	(73) HL Mando Corporation
(11) EP2271369	B62M 6/40	(11) EP2712743
(00) 07.04.2023	(00) Change of owner(s) name	(00) 06.04.2023
(51) A61K 38/00	(71) Palapa Technology, LLC	(51) B60B 1/00
A61K 38/17	(73) Palapa Technology, LLC	B60B 1/08
A61K 48/00	(11) EP2831350	B60B 1/14
C07K 14/215	(00) 06.04.2023	B60B 5/02
(00) Assignment	(51) E04D 9/00	B62M 6/60
(71) IVECO FRANCE S.A.S.	(00) Assignment	(00) Change of owner(s) name
(73) IVECO FRANCE S.A.S.	(71) IVECO FRANCE S.A.S.	(71) Carbon Alert B.V.
(11) EP2471684	(73) IVECO FRANCE S.A.S.	(73) Carbon Alert B.V.
(00) 06.04.2023	(11) EP2578447	(11) 2027670
(51) B60N 2/01	(00) 06.04.2023	(00) 06.04.2023
B60N 2/16	(51) B60N 2/01	(51) B01D 53/62
B60N 2/24	B60N 2/24	B01D 53/84
B60N 2/30	B60N 2/46	A01C 21/00
(00) Change of Legal Entity	B60N 2/64	(00) Assignment
(71) Zhejiang Ridge Outdoor CO., LTD	B60N 3/02	(71) Wellingq Holding B.V.
(73) Zhejiang Ridge Outdoor CO., LTD	(00) Change of Legal Entity	(73) Wellingq Holding B.V.
(11) 2022257	(71) IVECO FRANCE S.A.S.	(11) EP2879575
(00) 06.04.2023	(73) IVECO FRANCE S.A.S.	(00) 06.04.2023
(51) A47B 9/02	(11) EP2862745	(51) A61B 5/00
A47B 9/02	(00) 06.04.2023	A61B 5/0215
(00) Assignment	(51) B60R 21/231	(00) Assignment
(71) IVECO FRANCE S.A.S.	B60N 2/24	(71) Illumina, Inc.
(73) IVECO FRANCE S.A.S.	B60N 2/44	(73) Illumina, Inc.
(11) EP2578442	(00) Change of Legal Entity	(11) EP3272879
(00) 06.04.2023	(71) IVECO FRANCE S.A.S.	(00) 06.04.2023
(51) B60N 2/02	(73) IVECO FRANCE S.A.S.	(51) C12Q 1/68
B60N 2/24	(11) EP1997668	(00) Merge
B60Q 3/02	(00) 06.04.2023	(71) KBC Global Services NV
(00) Change of Legal Entity	(51) B60L 5/42	(73) KBC Global Services NV
(71) IVECO FRANCE S.A.S.	B60L 11/18	(11) EP3676740
(73) IVECO FRANCE S.A.S.	B60M 1/36	(00) 11.04.2023
(11) EP2578448	B60M 7/00	(51) G06Q 30/00
(00) 06.04.2023	(00) Change of Legal Entity	G06Q 40/08
(51) B60N 2/68	(71) IVECO FRANCE S.A.S.	G06F 21/55
(00) Change of Legal Entity	(73) IVECO FRANCE S.A.S.	(00) Assignment
(71) IVECO FRANCE S.A.S.	(11) EP2682298	(71) VM Holding B.V.
(73) IVECO FRANCE S.A.S.	(00) 06.04.2023	(73) VM Holding B.V.
(11) EP2578441	(51) B60L 1/00	(11) 2029175
(00) 06.04.2023	H02J 7/34	(00) 06.04.2023
(51) B60N 2/01	(00) Change of Legal Entity	(51) C09D 7/61
B60N 2/24	(71) Institut Français des Sciences et Technologies des Transports, de l'Aménagement et des Réseaux	F16B 2/00
B60N 2/46	IVECO FRANCE S.A.S.	F03D 13/20
B60N 2/64	(73) Institut Français des Sciences et Technologies des Transports, de l'Aménagement et des Réseaux	C09J 11/04
B60N 2/68	IVECO FRANCE S.A.S.	B32B 7/08
(00) Change of Legal Entity	(11) EP2933172	C09D 5/03
(71) IVECO FRANCE S.A.S.		(00) Assignment
(73) IVECO FRANCE S.A.S.		(71) LEONARDO UK LTD
		(73) LEONARDO UK LTD
		(11) EP2491712

(00) 06.04.2023	G06F 21/60	A61M 25/00
(51) G02B 7/00	(00) Change of owner(s) name	A61F 2/82
G02B 27/64	(71) nChain Licensing AG	A61M 25/10
G03B 5/00	(73) nChain Licensing AG	(00) Assignment
H04N 5/232	(11) EP3295362	(71) KamPa B.V.
(00) Change of owner(s) name	(00) 06.04.2023	(73) KamPa B.V.
(71) nChain Licensing AG	(51) G06F 21/51	(11) EP3441522
(73) nChain Licensing AG	G06F 21/60	(00) 07.04.2023
(11) EP3257191	(00) Change of owner(s) name	(51) E01B 7/02
(00) 06.04.2023	(71) nChain Licensing AG	(00) Assignment
(51) H04L 9/00	(73) nChain Licensing AG	(71) Heinrich Hirdes GmbH
G06Q 20/02	(11) EP3295350	GAP Explosive Ordnance Detection Pty Ltd
G06Q 20/36	(00) 06.04.2023	(73) Heinrich Hirdes GmbH
G06Q 30/06	(51) G06F 21/10	GAP Explosive Ordnance Detection Pty Ltd
(00) Change of owner(s) name	G06F 21/51	(11) EP3485300
(71) Human Security, Inc.	G06F 21/60	(00) 07.04.2023
(73) Human Security, Inc.	(00) Change of owner(s) name	(51) G01V 3/08
(11) EP3058472	(71) XINTC B.V.	G01V 3/10
(00) 05.04.2023	(73) XINTC B.V.	G01V 3/26
(51) G06N 7/00	(11) EP3237653	(00) Assignment
G06Q 99/00	(00) 11.04.2023	(71) LEONARDO UK LTD
H04L 29/06	(51) C25B 1/08	(73) LEONARDO UK LTD
H04L 29/08	C25B 9/20	(11) EP2834660
H04W 12/12	F02B 43/10	(00) 06.04.2023
G06F 21/31	F02M 25/12	(51) G01S 7/41
H04W 4/20	(00) Assignment	G01S 13/42
(00) Change of owner(s) name	(71) Exintec IP B.V.	(00) Change of owner(s) name
(71) LEONARDO UK LTD	(73) XINTC B.V.	(71) Heinrich Hirdes GmbH
(73) LEONARDO UK LTD	(11) EP3237653	GAP Explosive Ordnance Detection Pty Ltd
(11) EP2643905	(00) 11.04.2023	(73) Heinrich Hirdes GmbH
(00) 06.04.2023	(51) C25B 1/08	GAP Explosive Ordnance Detection Pty Ltd
(51) H01S 3/06	C25B 9/20	(73) Heinrich Hirdes GmbH
H01S 3/08	F02B 43/10	GAP Explosive Ordnance Detection Pty Ltd
H01S 3/094	F02M 25/12	(11) EP3607361
H01S 3/0941	(00) Change of owner(s) name	(00) 07.04.2023
H01S 3/16	(71) KamPa B.V.	(51) G01V 3/10
H01S 5/40	(73) KamPa B.V.	(00) Assignment
(00) Change of owner(s) name	(11) 1043092	(71) Heinrich Hirdes GmbH
(71) nChain Licensing AG	(00) 07.04.2023	GAP Explosive Ordnance Detection Pty Ltd
(73) nChain Licensing AG	(51) E01B 9/30	(73) Heinrich Hirdes GmbH
(11) EP3268914	(00) Assignment	GAP Explosive Ordnance Detection Pty Ltd
(00) 06.04.2023	(71) HL Mando Corporation	(11) EP3482233
(51) H04L 9/08	(73) HL Mando Corporation	(00) 07.04.2023
H04L 9/30	(11) EP2712742	(51) F41H 11/136
H04L 9/32	(00) 06.04.2023	G01V 3/10
G06Q 20/38	(51) B60B 1/00	(00) Assignment
(00) Change of owner(s) name	B60B 1/08	(71) VM Holding B.V.
(71) LEONARDO UK LTD	B60B 1/14	(73) VM Holding B.V.
(73) LEONARDO UK LTD	B60B 5/02	(11) 2027663
(11) EP3047245	(00) Change of owner(s) name	(00) 06.04.2023
(00) 06.04.2023	(71) HL Mando Corporation	(51) B32B 37/14
(51) G01J 5/08	(73) HL Mando Corporation	(00) Assignment
G01J 5/52	(11) EP2711282	(71) Wellingq Holding B.V.
(00) Change of owner(s) name	(00) 06.04.2023	(73) Wellingq Holding B.V.
(71) Wellingq Holding B.V.	(51) B62M 6/40	(11) EP3164166
(73) Wellingq Holding B.V.	(00) Change of owner(s) name	(00) 06.04.2023
(11) 2021208	(71) LEONARDO UK LTD	(51) A61L 27/34
(00) 06.04.2023	(73) LEONARDO UK LTD	A61L 27/52
(51) A61B 5/0215	(11) EP3238351	A61L 29/08
A61B 5/00	(00) 06.04.2023	A61L 29/14
A61M 25/00	(51) H04B 10/2575	A61L 31/10
(00) Assignment	(00) Change of owner(s) name	A61L 31/14
(71) nChain Licensing AG	(71) Wellingq Holding B.V.	(00) Assignment
(73) nChain Licensing AG	(73) Wellingq Holding B.V.	
(11) EP3295349	(11) EP2501431	
(00) 06.04.2023	(00) 06.04.2023	
(51) G06F 21/51	(51) A61L 29/16	

(71) Heinrich Hirdes GmbH
GAP Explosive Ordnance Detection Pty
Ltd
(73) Heinrich Hirdes GmbH
GAP Explosive Ordnance Detection Pty
Ltd
(11) EP3455651
(00) 07.04.2023
(51) G01V 3/10
(00) Assignment

(71) Zhejiang Ridge Outdoor CO., LTD
(11) 2032842
(00) 06.04.2023
(51) F16B 21/16
E05C 1/04
E05B 15/00
(00) Assignment

(71) Minerva Biotechnologies Corporation
(73) Minerva Biotechnologies Corporation
(11) EP2344632
(00) 06.04.2023
(51) A61K 38/48
C12N 5/071
(00) Assignment

TVH

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

UP1

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

UP2

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

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

UP3

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

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

UP4

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

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

UP5

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

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

UP6

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

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