



Rijksdienst voor Ondernemend
Nederland

Nederland

De industriële eigendom

Inleiding

Hoofdblad

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

Bijblad

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

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Introduction

Patent Bulletin

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

Official Journal

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Rubriek NP2 Bevat gegevens betreffende ingeschreven en verleende octrooien op grond van de Octrooiwet 1995.	12 Heading NP2 Contains data concerning Netherlands patents which have been entered in the patent register under the Patents Act 1995.	12
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Overzicht van Inid codes

INID CODES

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

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

INID CODES

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

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

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

Rubrieken/Headings

NP1

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(54) A METHOD TO CULTIVATE A PIECE OF FARMLAND WITH AN AUTONOMOUS TRACTOR AND A TRACTOR FOR EMPLOYING THE METHOD	(72) Renier Theodorus Elisabeth Marie Simons (41) 09.10.2023	(72) Wilfried Grimberg (41) 09.10.2023
(71) AGXEED HOLDING B.V. (74) ir. P.J.P. Janssen (72) Joris Jan Hiddema Laurentius Hubertus Margaretha Schmitz (41) 10.10.2023	(72) Renier Theodorus Elisabeth Marie Simons (41) 09.10.2023	(51) A61P 15/08 A61K 38/18
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(71) E. GREEN GLOBAL CO., LTD. (74) ir. A. Blokland c.s. (72) Dong Won Lee Dong Keun Lee (41) 06.10.2023	(71) VIAM s.r.o. (74) ir. A. Blokland c.s. (72) Renier Theodorus Elisabeth Marie Simons	(74) ir. M.B. Plaggenborg (72) Qiqi Zhu Yiyan Wang Huitao Li Yige Yu Xiaoheng Li Renshan Ge (41) 06.10.2023
(31) 10-2022-0035622 (32) 22.03.2022 (33) Korea (Republic)	(51) A23L 3/28 A23B 7/015 A23L 3/00 B65G 27/00	(51) B01D 69/08 (21) 2034773 (22) 08.05.2023
(51) A01M 21/04 A01B 79/00	(21) 2034270 (22) 06.03.2023	(54) Nanoscale hollow fiber dialysis membrane preparation method
(21) 2031403 (22) 24.03.2022	(54) SELF-CLEANING PREFABRICATED FOOD STERILIZATION EQUIPMENT FOR LENTINULA EDODES	(71) The First Affiliated Hospital of Jinan University Jinan University Shenzhen Longhua District Central Hospital
(54) Weeding arrangement and method of using the weeding arrangement	(71) Henan Agricultural University Henan Province Food Inspection Research Institute Nongzhuang (Luoyang) Modern Agriculture Industry Co., Ltd. (74) dr. T. Wittop Koning PhD (72) Yunzhi Yuan Yu Li Hongtao Ma Shanshan Qu Shuihuan Guo Yingying Liu Shuaijie Wu Jian Tao (41) 09.10.2023	(74) ir. W.J.J.M. Kempes (72) Shaodong Luan Daxin Yun Yu Meng Lianghong Yin Chen Yun (41) 10.10.2023
(51) A22C 17/00 B25J 11/00	(51) A47C 4/02 A47C 17/02	(51) B01J 7/02 B01J 19/00 B01J 15/00 B01J 19/18 B01D 53/86 B01J 4/00
(21) 2031401 (22) 24.03.2022	(21) 2031395 (22) 24.03.2022	(21) 2032290 (22) 27.06.2022
(54) pin-gripper voor het manipuleren van voedingsproducten	(54) OUTDOOR SOFA FRAME AND QUICK INSTALLATION MECHANISM	(54) ENERGY-SAVING AND HIGH-VOLUME AMMONIA DECOMPOSITION HYDROGEN PRODUCTION DEVICE
(71) Simeco Holland B.V. (74) ir. A. Blokland c.s. (72) Renier Theodorus Elisabeth Marie Simons (41) 06.10.2023	(71) Zhejiang University of Technology (74) ir. W.J.J.M. Kempes (72) Anchi Yang (51) A61B 5/08 A61B 5/11 A61B 5/00 A61B 5/024	
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(71) Wuhu Langzhuo New Material Technology Co., Ltd.	(41) 06.10.2023	Thomas Luc Martine Baert
(74) ir. M.B. Plaggenborg	(51) B65H 45/10	Sven Boon
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Haoran Huang	B65B 63/04	(31) 2031385
Meilan Zeng	(21) 1044285	(32) 23.03.2022
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(41) 06.10.2023	(54) INRICHTING VOOR HET VERPAKKEN VAN MEDICATIE	(51) C08J 5/18
(31) 202210284170.1	(71) LO&T Beheer B.V.	B32B 27/20
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(71) Zhejiang University of Science and Technology	(74) dr. ir. G.J.C. Verdijk c.s.	(71) CHAMPION LINK INTERNATIONAL CORPORATION
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(31) 202210870628.1	(31) 63/323,641	(41) 06.10.2023
(32) 23.07.2022	(32) 25.03.2022	(51) C12P 13/02
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(54) Treinwaarschuwingsysteem.	(54) LOW-CARBON MAGNESIA CARBON BRICK WITH MODIFIED EXPANDED GRAPHITE AS CARBON SOURCE AND PREPARATION METHOD THEREOF	(74) ir. M.B. Plaggenborg
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(72) Lex Josephus Maria van der Poel Jacob Zeeman	(74) ir. M.B. Plaggenborg	(51) C12Q 1/6825
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(21) 2034064	Weiping Ma	(22) 22.03.2022
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(71) Thrustleader Marine Power System (Shanghai) Co., Ltd	(41) 06.10.2023	(74) ir. M.B. Plaggenborg
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(74) dr. T. Wittop Koning PhD	C07C 235/80	Jikui Wu
(72) Yuzhuo Cao	(21) 2031389	Junling Zhang
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(21) 2031392	B32B 27/20	(72) Lan Chen
(22) 23.03.2022	E04F 13/18	Bei Guo
(54) MEDICAL DRUG STORAGE DEVICE	E04F 15/10	Lihua Duan
(71) Zhengzhou Railway Vocational & Technical College	(21) 2031888	Shengqi Cao
(74) ir. M.B. Plaggenborg	(22) 17.05.2022	Xihong Li
(72) Longteng Li	(54) Floor or wall panel and method of producing a floor or wall panel	Chongxiao Shao
Hongping Xu	(71) CHAMPION LINK INTERNATIONAL CORPORATION	Junwei Yuan
Yanqi Lu	(74) ir. H.Th. van den Heuvel c.s.	Haifen Wang
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(33) China	(71) HARBIN ENGINEERING UNIVERSITY	(21) 2031399
(51) F16C 29/04	(74) ir. W.J.J.M. Kempes	(22) 24.03.2022
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(21) 2031406	(32) 06.02.2023	
(22) 25.03.2022	(33) China	(51) G16Z 99/00
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(71) Prodrive Technologies Innovation Services B.V.	(71) HUANENG RENEWABLES CORPORATION LIMITED HEBEI BRANCH	(72) Wei Chen
(74) ir. M. van der Velden	(74) dr. R.C. van Duijvenbode c.s.	Shuai Yu
(72) Ronny Hendrix	(72) Wei Tan	Chunping Miao
Moos Senden	Xiangwei Wang	Xingyuan He
(51) F24F 110/66	Chenghui Zhang	Yanqing Huang
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(21) 1044284	(22) 28.06.2023	(21) 2031383
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(71) IV-Projects Holding B.V.	(74) dr. R.C. van Duijvenbode c.s.	(71) Boschman Technologies BV
(72) Drs.Ing. Ivo van Persie	(72) Jie Bai	(72) Franciscus Gerardus Johannes Boschman
(41) 06.10.2023	Mengyuan Zhang	(51) H01L 29/10
(51) G01C 5/00	Liheng Zhang	H01L 29/778
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(21) 2031417	Xinhao Song	(22) 24.03.2022
(22) 28.03.2022	Ran Feng	(54) GaN High Electron Mobility Transistor
(54) SYSTEM AND METHOD FOR MONITORING SUBSURFACE VERTICAL DYNAMICS	Hui Dang	(71) Chongqing Pingchuang Institute of Semiconductors Co., Ltd
(71) Technische Universiteit Delft	Lihua Rong	(74) dr. A. Krebs
(74) ir. J.C. Volmer c.s.	Xiaohai Hu	(72) Chen Xiangping
(72) Raymond Franciscus Hanssen	Lixia Guo	Li Wanjie
(41) 10.10.2023	(31) 2022114728447	Wang Liming
(51) G01N 27/26	(32) 16.11.2022	Zhang Xu
G01N 33/18	(33) China	Qian Jing
(21) 2031416	(51) G07F 11/00	Wu Lingmei
(22) 28.03.2022	G07F 11/62	(41) 09.10.2023
(54) RAPID PORTABLE BOD DETECTOR	G07F 17/00	(51) H02G 1/10
(71) Chongqing Institute of Green and Intelligent Technology Chinese Academy of Science	G07F 11/04	E21B 17/01
(74) dr. A. Krebs	G07F 9/10	H02G 3/04
(72) Liu Yuan	G07F 11/46	F16L 1/12
Song Cheng	(21) 2031398	H02G 9/02
Liu Hong	(22) 24.03.2022	(21) 2031394
(51) G06F 30/15	(54) Een verkoopautomaat voor de uitgifte van een of meer soorten verwarmde en/of gekoelde voedingsproducten.	(22) 24.03.2022
B63G 8/00	(71) Simeco Holland B.V.	(54) Subsea cable crossing device
G06F 30/23	(74) ir. A. Blokland c.s.	(71) Vos Product Innovations B.V.
(21) 2035386	(72) Renier Theodorus Elisabeth Marie Simons	(74) ir. J.C. Volmer c.s.
(22) 14.07.2023	(51) G16H 10/40	(72) Warner Meinen
(54) Method for constructing a six-degree-of-freedom ROV operation simulation platform	G16H 40/67	(41) 06.10.2023
	G16H 50/70	(51) H02S 20/30
	G16H 50/80	H02S 40/10
		B08B 1/04
		B08B 5/02
		(21) 2035601

- (22) 11.08.2023
 - (54) WINDPROOF PHOTOVOLTAIC POWER
GENERATION DEVICE WITH HIGH
SAND REMOVAL EFFICIENCY
 - (71) HUANENG RENEWABLES
CORPORATION LIMITED HEBEI
BRANCH
 - (74) dr. R.C. van Duijvenbode c.s.
 - (72) Haiyu Zhao
Qiang Qiao
Pengyu Liu
Yi Liu
Xiangwei Wang
Zhibo Li
 - (31) 2023106758271
 - (32) 08.06.2023
 - (33) China
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NP2

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

(51) A01B 69/00 A01B 79/00 G05D 1/02	(72) Renier Theodorus Elisabeth Marie Simons	(54) A Preparation Method for Embedding n-3 Long Chain Polyunsaturated Fatty Acid Microcapsules
(11) 2031414 (47) 10.10.2023 (22) 28.03.2022	(74) ir. A. Blokland c.s.	(73) Chongqing University of Education, CQUE
(54) A METHOD TO CULTIVATE A PIECE OF FARMLAND WITH AN AUTONOMOUS TRACTOR AND A TRACTOR FOR EMPLOYING THE METHOD	(51) A22C 17/00	(72) Qiang Wang
(73) AGXEED HOLDING B.V.	B25J 11/00	Xiaofeng Xiang
(72) Joris Jan Hiddema	B25J 15/10	Yao Gou
Laurentius Hubertus Margaretha Schmitz	(11) 2031400	Yihan Wang
(74) ir. P.J.P. Janssen	(47) 09.10.2023	Kai Wang
(51) A01G 9/18 A01G 31/02 F21V 29/00 A01H 4/00 C12M 3/00	(22) 24.03.2022	Yuejie Xie
(11) 2033341 (47) 06.10.2023 (22) 18.10.2022	(54) gripper voor het manipuleren van voedingsproducten	(74) dr. A.V. Huygens
(54) CULTURING APPARATUS FOR CULTURING POTATO TISSUE	(73) Simeco Holland B.V.	(31) 202210625215.7
(73) E. GREEN GLOBAL CO., LTD.	(72) Renier Theodorus Elisabeth Marie Simons	(32) 02.06.2022
(72) Dong Won Lee Dong Keun Lee	(74) ir. A. Blokland c.s.	(33) China
(74) ir. A. Blokland c.s.	(51) A22C 17/00	(51) A23L 3/28
(31) 10-2022-0035622	B65G 47/14	A23B 7/015
(32) 22.03.2022	(11) 2031408	A23L 3/00
(33) Korea (Republic)	(47) 06.10.2023	B65G 27/00
(51) A01K 1/01 A01K 1/015	(22) 25.03.2022	(11) 2034270
(11) 2035486 (47) 10.10.2023 (22) 26.07.2023	(54) Inrichting voor het verenkelen van willekeur aangevoerde voedingsproducten	(47) 09.10.2023 (22) 06.03.2023
(54) An Automatic Dung Scraper and Cow Mattress Material Production System	(73) VIAM s.r.o.	(54) SELF-CLEANING PREFABRICATED FOOD STERILIZATION EQUIPMENT FOR LENTINULA EDODES
(73) Zengxuan Pan	(72) Renier Theodorus Elisabeth Marie Simons	(73) Henan Agricultural University Henan Province Food Inspection Research Institute
(72) Zengxuan Pan	(74) ir. A. Blokland c.s.	Nongzhuang (Luoyang) Modern Agriculture Industry Co., Ltd.
(74) dr. A.V. Huygens	(51) A23B 4/015	(72) Yunzhi Yuan
(51) A01M 21/04 A01B 79/00	A23L 3/32	Yu Li
(11) 2031403 (47) 09.10.2023 (22) 24.03.2022	A23L 5/10	Hongtao Ma
(54) Weeding arrangement and method of using the weeding arrangement	A23L 13/72	Shanshan Qu
(73) Odd.Bot B.V.	A23L 13/40	Shuihuan Guo
(72) Martijn Roland Lukaart	(11) 2027084	Yingying Liu
(74) ir. H.A. Witmans c.s.	(47) 10.10.2023	Shuaijie Wu
(51) A22C 17/00 B25J 11/00	(22) 10.12.2020	Jian Tao
(11) 2031401 (47) 06.10.2023 (22) 24.03.2022	(54) GRILLING METHOD FOR CONTROLLING CONTENT OF POLYCYCLIC AROMATIC HYDROCARBONS IN CHARCOAL- GRILLEDMEAT	(74) dr. T. Wittop Koning PhD
(54) pin-gripper voor het manipuleren van voedingsproducten	(73) Nanjing Agricultural University WENS FOODSTUFF GROUP CO., LTD.	(51) A47C 4/02
(73) Simeco Holland B.V.	(72) Minyi Han	A47C 17/02
	Yangjian Hu	(11) 2031395
	Xianming Zeng	(47) 06.10.2023
	Huhu Wang	(22) 24.03.2022
	Weijun He	(54) OUTDOOR SOFA FRAME AND QUICK INSTALLATION MECHANISM
	Junjie Ye	(73) Zhejiang University of Technology
	Shaolin Deng	(72) Anchi Yang
	Xinglian Xu	(74) ir. W.J.J.M. Kempes
	Guanghong Zhou	(51) A61B 5/08
	(74) drs. C.M.A. Quintelier	A61B 5/11
	(31) 202011081270.1	A61B 5/00
	(32) 10.10.2020	A61B 5/024
	(33) China	(11) 2031404
	(51) A23D 9/05	(47) 09.10.2023
	(11) 2034548	(22) 24.03.2022
	(47) 10.10.2023	(54) PATIENT MONITORING SYSTEM
	(22) 12.04.2023	(73) Deron B.V.
		(72) Wilfried Grimberg
		(74) ir. J.P.E. Brants

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A61K 38/18
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(47) 06.10.2023
(22) 23.03.2022
(54) USE OF NEUROTROPHIC FACTOR 3 (NT-3) IN PREPARATION OF DRUG FOR TREATMENT OF MALE HYPOGONADISM
(73) The Second Affiliated Hospital and Yuying Children's Hospital of Wenzhou Medical University
(72) Qiqi Zhu
Yiyan Wang
Huitao Li
Yige Yu
Xiaoheng Li
Renshan Ge
(74) ir. M.B. Plaggenborg
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- (51) B01D 69/08
(11) 2034773
(47) 10.10.2023
(22) 08.05.2023
(54) Nanoscale hollow fiber dialysis membrane preparation method
(73) The First Affiliated Hospital of Jinan University
Jinan University
Shenzhen Longhua District Central Hospital
Jiangsu Senbao Biotechnology Co., Ltd.
Guangzhou Enttex Medical Products Industrial Co., Ltd.
(72) Shaodong Luan
Daxin Yun
Yu Meng
Lianghong Yin
Chen Yun
(74) ir. W.J.J.M. Kempes
-
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B01J 19/00
B01J 15/00
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B01D 53/86
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(11) 2032290
(47) 06.10.2023
(22) 27.06.2022
(54) ENERGY-SAVING AND HIGH-VOLUME AMMONIA DECOMPOSITION HYDROGEN PRODUCTION DEVICE
(73) Wuhu Langzhuo New Material Technology Co., Ltd.
(72) Xinzhong Li
Haoran Huang
Meilan Zeng
Feifei Huang
(74) ir. M.B. Plaggenborg
(31) 202210284170.1
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(33) China
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B67B 7/92
B30B 9/30
(11) 1044282
(47) 10.10.2023
(22) 16.03.2022
- (54) Inrichting voor het doorbreken van lasnaden dialysezakken
(73) Erik Johannes Maria Vale
(72) Erik Johannes Maria Vale
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- (51) B42D 25/328
B42D 25/378
(11) 2031320
(47) 10.10.2023
(22) 18.03.2022
(54) A sealing mark, a package and methods
(73) Roelof Voerman
(72) Roelof Voerman
(74) ir. H.A. Witmans c.s.
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- (51) B61L 23/06
(11) 2031397
(47) 06.10.2023
(22) 24.03.2022
(54) Treinwaarschuwingssysteem.
(73) Dual Inventive Holding B.V.
(72) Lex Josephus Maria van der Poel
Jacob Zeeman
(74) ir. A. Blokland c.s.
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- (51) B63B 21/16
(11) 2034064
(47) 10.10.2023
(22) 01.02.2023
(54) CONTROL METHOD OF FOUR-POINT MOORING MODEL FOR MULTI-POINTS MOORING POSITIONING TECHNOLOGY
(73) Thrustleader Marine Power System (Shanghai) Co., Ltd
Dutch Thrustleader Marine Propulsion (Jiangsu) Co., Ltd
(72) Yuzhuo Cao
Guichen Zhang
(74) dr. T. Wittop Koning PhD
(31) 202211524241.7
(32) 30.11.2022
(33) China
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- (51) B65D 25/02
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(11) 2031392
(47) 06.10.2023
(22) 23.03.2022
(54) MEDICAL DRUG STORAGE DEVICE
(73) Zhengzhou Railway Vocational & Technical College
(72) Longteng Li
Hongping Xu
Yanqi Lu
Hongtao Wang
Baiqiang Zhai
(74) ir. M.B. Plaggenborg
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B65B 63/04
(11) 1044285
(47) 06.10.2023
(22) 23.03.2022
(54) INRICHTING VOOR HET VERPAKKEN VAN MEDICATIE
(73) LO&T Beheer B.V.
(72) Willem Langemaat
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- (51) C03C 3/068
(11) 2031590
- (47) 06.10.2023
(22) 14.04.2022
(54) High-Index Silicoborate and Borosilicate Glasses
(73) Corning Incorporated
(72) Alexander I Priven
Jian Luo
Antoine Marie Joseph Lepicard
(74) dr. ir. G.J.C. Verdijck c.s.
(31) 63/323,641
(32) 25.03.2022
(33) United States of America
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- (51) C04B 35/043
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(47) 06.10.2023
(22) 22.03.2022
(54) LOW-CARBON MAGNESIA CARBON BRICK WITH MODIFIED EXPANDED GRAPHITE AS CARBON SOURCE AND PREPARATION METHOD THEREOF
(73) North China University of Science and Technology
Hebei Guoliang New Materials Co., Ltd.
(72) Yilong Wang
Wenli Zhang
Weiping Ma
Xiongfeng Zeng
Jiankun Huang
(74) ir. M.B. Plaggenborg
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- (51) C04B 35/638
C04B 35/626
C04B 35/495
C04B 35/622
(11) 2030121
(47) 10.10.2023
(22) 13.12.2021
(54) METHOD FOR PREPARING LARGE-SIZE HIGH-QUALITY POTASSIUM TANTALUM NIOBATE CERAMIC TARGET MATERIAL
(73) SHANDONG SHANKE SMART-CRYSTAL OPTOELECTRONIC TECHNOLOGY CO., LTD
ADVANCED MATERIALS INSTITUTE, SHANDONG ACADEMY OF SCIENCES
(72) Yuguo Yang
Chengcheng Qiu
Xuping Wang
Shaodong Zhang
Xianggang Zuo
Bing Liu
(74) dr. J. van Straaten
(31) 202111448241.9
(32) 30.11.2021
(33) China
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C05G 3/00
(11) 2031501
(47) 10.10.2023
(22) 05.04.2022
(54) Preparation method of high - efficiency magnesium polyphosphate fertilizer
(73) Hongwei Tan
(72) Hongwei Tan
Guichuan Wang
(74) dr. T. Wittop Koning PhD
(31) 202111390879.1
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(33) China	B32B 27/18	(54) A Bio-enzymatic Process Method for Preparing Paper Pulp
(51) C05F 9/04	B32B 27/20	(73) Hong Kong Morning Star International Holding Limited
C05G 3/80	E04F 13/18	(72) Tzung-Shen Lai
C05F 17/20	E04F 15/10	Shu-Quan Li
C05F 1/00	(11) 2031888	(74) dr. A.V. Huygens
(11) 2034244	(47) 06.10.2023	(51) E03F 5/10
(47) 09.10.2023	(22) 17.05.2022	(11) 2030103
(22) 01.03.2023	(54) Floor or wall panel and method of producing a floor or wall panel	(47) 09.10.2023
(54) PREPARATION METHOD OF KITCHEN WASTE CARBON-BASED COMPLEX ENZYME BIOLOGICAL BACTERIAL FERTILIZER	(73) CHAMPION LINK INTERNATIONAL CORPORATION	(22) 10.12.2021
(73) Zhonghuan Yimei Environmental Technology (Zhejiang) Co., Ltd	(72) Tom van Poyer	(54) STAGED RETAINING AND STORING WATER SUPPLY SYSTEM FOR GROUNDWATER IN HILLY REGIONS
Shenzhen Research Institute of Northwestern Polytechnical University	Thomas Luc Martine Baert	(73) China University of Geosciences
(72) Bin Xie	Sven Boon	Wuhan Center, China Geological Survey (Central South China Innovation Center for Geosciences)
Sihai Hu	(74) ir. H.Th. van den Heuvel c.s.	(72) Qing Wang
Ran Sun	(31) 2031385	Mengru Li
Jialue Cai	(32) 23.03.2022	Tingting Shi
Haocheng Yang	(33) Netherlands	Kun Huang
Xiaofeng Sun	(51) C08J 5/18	Ningtao Wang
Xiaofeng Sun	B32B 27/20	Hua Jiang
Yaoguo Wu	E04F 13/18	Yalei Liu
Qingqing Kong	E04F 15/10	Dankun Zhou
Tao Yang	E04F 15/10	Jianmin Tan
(74) ir. M.B. Plaggenborg	C08K 3/013	(74) ir. W.J.J.M. Kempes
(51) C05F 17/10	B32B 27/18	(31) 202110844563.9
(11) 2032312	(11) 2031385	(32) 26.07.2021
(47) 09.10.2023	(47) 06.10.2023	(33) China
(22) 29.06.2022	(22) 23.03.2022	(51) E04C 3/34
(54) Method For Enhancing Carbon And Nitrogen Conversion In Composting Process Based On Magnetic Particles	(54) Floor or wall panel and method of producing a floor or wall panel	E04C 5/07
(73) Institute of Agricultural Resources and Regional Planning, Chinese Academy of Agricultural Sciences	(73) CHAMPION LINK INTERNATIONAL CORPORATION	E04G 23/02
Agro-Environmental Protection Institute, Ministry of Agriculture and Rural Affairs	(72) Thomas Luc Martine Baert	(11) 2033976
(72) Junting Pan	Sven Boon	(47) 10.10.2023
Tao Luo	Tom van Poyer	(22) 17.01.2023
Yadong Yang	(74) ir. H.Th. van den Heuvel c.s.	(54) A Kind of Holding the Hoop Reinforcement Frame
Bin Xi	(51) C12P 13/02	(73) China Railway Seventh Group CO., LTD.
Zengqiang Zhang	(11) 2031390	China Railway Seventh Engineering Bureau Group Guangzhou Engineering CO., LTD.
Ling Qiu	(47) 06.10.2023	(72) Shujian Lu
Jianning Zhao	(22) 23.03.2022	Dandan Han
Lili Wang	(54) METHOD FOR PREPARING (S)- OR (R)-2-AMINO BUTANAMIDE THROUGH TRANSAMINASE BIOCATALYSIS	Hengwei Wang
Hongbin Liu	(73) Shandong University of Science and Technology	Xiaohui Lu
Dan Wei	(72) Bo Wang	Geping Zhang
Guilong Zhang	(74) ir. M.B. Plaggenborg	Lei Peng
Cheng Yan	(51) C12Q 1/6825	(74) dr. A.V. Huygens
Ronghua Li	C12Q 1/682	(31) 20222589682.7
(74) dr. T. Wittop Koning PhD	(11) 2031380	(32) 29.09.2022
(31) 202210094259.1	(47) 06.10.2023	(33) China
(32) 26.01.2022	(22) 22.03.2022	(51) E21D 9/00
(33) China	(54) FUNCTIONAL NUCLEIC ACID-BASED FLUORESCENT SENSOR AND USE THEREOF IN LEAD ION DETECTION	E21D 11/00
(51) C07C 231/10	(73) Shanghai Ocean University	E21D 21/00
C07C 235/80	(72) Min Jia	(11) 2031573
(11) 2031389	Jikui Wu	(47) 10.10.2023
(47) 06.10.2023	Junling Zhang	(22) 13.04.2022
(22) 23.03.2022	(74) ir. M.B. Plaggenborg	(54) ANTI-FROST HEAVING FAILURE TUNNEL SUPPORT SYSTEM AND CONSTRUCTION METHOD
(54) METHOD FOR PREPARING a-CARBONYL BUTYRAMIDE THROUGH REACTION IN WATER PHASE	(51) D21H 11/08	(73) Northwest Institute of Eco-Environment and Resources ,CAS
(73) Shandong University of Science and Technology	D21H 11/12	(72) Xin Ju
(72) Bo Wang	D21C 5/00	Fujun Niu
(74) ir. M.B. Plaggenborg	D21C 1/00	Jing Luo
(51) C08J 5/18	D21C 3/00	Liang Zhang
	D21H 17/00	
	(11) 2033570	
	(47) 10.10.2023	
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Minghao Liu	(73) Technische Universiteit Delft	Shanna Weinblatt
(74) ir. M.B. Plaggenborg	(72) Raymond Fransciscus Hanssen	Sophie Raviot-Derrien
(31) 202111384467.7	(74) ir. J.C. Volmer c.s.	Michael John Baker
(32) 22.11.2021	(51) G01N 21/64	(74) B. Moore
(33) China	C09K 11/06	(31) 63/385082
(51) F16C 29/04	C07F 13/00	63/310493
F16C 33/48	(11) 2034224	(32) 28.11.2022
F16C 33/34	(47) 10.10.2023	15.02.2022
F16C 33/46	(22) 25.02.2023	(33) United States of America
F16C 39/06	(54) A Preparation Method and Application	United States of America
F16C 29/00	of Cellulose Based on Fluorescent	(51) G07F 11/00
(11) 2031406	Functional Material Containing	G07F 11/62
(47) 06.10.2023	Manganese Complex	G07F 17/00
(22) 25.03.2022	(73) Xinjiang Agricultural University	G07F 11/04
(54) NON-RECIRCULATING	(72) Hongzhi Hu	G07F 9/10
ROLLING ELEMENT BEARING	Yibo Yan	G07F 11/46
IN AN OVERRUNNING CAGE	Zunqi Liu	(11) 2031398
CONFIGURATION, CAGE AND	Yang Liu	(47) 06.10.2023
ADAPTER FOR THE SAME	(74) dr. A.V. Huygens	(22) 24.03.2022
(73) Prodrive Technologies Innovation	(31) 202210391480.3	(54) Een verkoopautomaat voor de uitgifte
Services B.V.	(32) 14.04.2022	van een of meer soorten verwarmde en/
(72) Ronny Hendrix	(33) China	of gekoelde voedingsproducten.
Moos Senden	(51) G01N 27/26	(73) Simeco Holland B.V.
(74) ir. M. van der Velden	G01N 33/18	(72) Renier Theodorus Elisabeth Marie
(51) F16K 15/06	(11) 2031416	Simons
E03B 7/07	(47) 10.10.2023	(74) ir. A. Blokland c.s.
E03C 1/10	(22) 28.03.2022	(51) G16H 10/40
(11) 2033487	(54) RAPID PORTABLE BOD DETECTOR	G16H 40/67
(47) 09.10.2023	(73) Chongqing Institute of Green and	G16H 50/70
(22) 09.11.2022	Intelligent Technology Chinese Academy	G16H 50/80
(54) PIPELINE FLUID CHECK APPARATUS	of Science	(11) 2031399
AND METHOD	(72) Liu Yuan	(47) 09.10.2023
(73) China Architecture Design & Research	Song Cheng	(22) 24.03.2022
Group Co., Ltd.	Liu Hong	(54) Electronic data processing system for
(72) Xin Zhao	(74) dr. A. Krebs	analysing pathogen data
Yan Liang	(51) G01S 7/41	(73) DNY Holding B.V.
Detian Zhao	G01S 13/90	(72) Danny Mekić
Maolin Li	G06T 5/00	(74) ir. H.A. Witmans c.s.
Jianye Li	G06T 5/50	(51) G16Z 99/00
(74) ir. W.J.J.M. Kempes	(11) 2032891	(11) 2031360
(31) 202210408703.2	(47) 09.10.2023	(47) 06.10.2023
(32) 19.04.2022	(22) 29.08.2022	(22) 22.03.2022
(33) China	(54) ScanSAR image scallop effect inhibition	(54) COMPUTER SYSTEM FOR
(51) F24F 110/66	method based on self-attention	SCREENING PLANTS FOR COLD
F24F 110/10	mechanism and CycleGAN	RIPARIAN ZONES
F24F 110/20	(73) Shaanxi Normal University	(73) Institute of Applied Ecology, Chinese
F24F 110/64	(72) Rong Guo	Academy of Sciences
F24F 11/32	Zengguo Sun	(72) Wei Chen
F24F 110/70	Lingfeng Zheng	Shuai Yu
(11) 1044284	Biyu Wang	Chunping Miao
(47) 06.10.2023	Liren Dong	Xingyuan He
(22) 21.03.2022	Xinyu Han	Yanqing Huang
(54) Werkwijze voor het analyseren en	Yuchen Ma	Yue Zhang
interpreteren van binnenklimaat	Ziyue Fang	Sheng Xu
sensorinput en de keuze bepaling	(74) ir. M.B. Plaggenborg	Daoyan Su
tussen verschillende aansturingssacties	(31) 202110999708.2	(74) ir. W.J.J.M. Kempes
voor gekoppelde binnenklimaat	(32) 29.08.2021	(51) H01L 23/00
beïnvloedende installaties.	(33) China	(11) 2031383
(73) IV-Projects Holding B.V.	(51) G06Q 30/0217	(47) 06.10.2023
(72) Drs.Ing. Ivo van Persie	G06Q 30/0601	(22) 23.03.2022
(51) G01C 5/00	(11) 2034153	(54) Pressure Sintering Apparatus, and
G01B 21/32	(47) 10.10.2023	corresponding Pressure Sintering
(11) 2031417	(22) 15.02.2023	Method
(47) 10.10.2023	(54) AI PERSONAL FRAGRANCE	(73) Boschman Technologies BV
(22) 28.03.2022	CONSULTATION AND FRAGRANCE	(72) Franciscus Gerardus Johannes
(54) SYSTEM AND METHOD FOR	SELECTION/RECOMMENDATION	Boschman
MONITORING SUBSURFACE	(73) COTY Inc	(51) H01L 29/10
VERTICAL DYNAMICS	(72) Yoann LeTensorer	

H01L 29/778

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- (47) 09.10.2023
- (22) 24.03.2022
- (54) GaN High Electron Mobility Transistor
- (73) Chongqing Pingchuang Institute of Semiconductors Co., Ltd
- (72) Chen Xiangping
- Li Wanjie
- Wang Liming
- Zhang Xu
- Qian Jing
- Wu Lingmei

(74) dr. A. Krebs

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(43) 09.02.2022

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C21B 13/12

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C22B 5/12

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(32) 12.05.2020	A COMBINATION OF ACTIVE	(32) 15.04.2019
(33) Italy	INGREDIENTS OF ONE OR MORE	(33) United Kingdom
(51) A61K 8/02	ALKYL ETHERS OF GLYCEROL AND	(51) A61K 8/72
A61K 8/25	ONE OR MORE PHYSIOLOGICALLY	A61K 8/73
A61K 8/64	SAFE HYDROXAMIC ACIDS	A61K 8/41
A61K 8/98	(73) Inolex GmbH	A61K 8/81
A61K 47/69	(72) FIRYN, Andreas	A61K 8/89
A61Q 19/08	GÖKSEL, Hülya	A61K 8/891
A61Q 19/00	KÖHLER, Manuela	A61K 8/11
(11) EP3824875	TRAUPE, Bernd	A61Q 1/10
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(22) 17.12.2018	A61K 8/44	26.05.2017
(54) MICRONEEDLE COATED WITH DRUG	A61K 8/46	(22) 17.11.2016
AND MANUFACTURING METHOD FOR	A61Q 5/00	(54) MASCARA COMPOSITION AND
SAME	(11) EP3389613	METHOD
(73) SR Biotek Inc.	(21) EP16822124.0	(73) ELC Management LLC
(72) SONG, Byung Ho	(47) 11.10.2023	(72) LEE, Wilson A.
JEONG, Kwang Taek	(87) EP2016080799	(31) 201562256292 P
Ji, Min Jae	22.06.2017	(32) 17.11.2015
NAM, Da Yeong	(22) 13.12.2016	(33) United States of America
EOM, Hye Seon	(54) COSMETIC COMPOSITION	(51) A61K 9/00
KIM, Ji Young	COMPRISING AN ANIONIC	A61K 9/06
(31) 20180076060	SURFACTANT, AT LEAST 3.5% BY	A61K 47/36
(32) 29.06.2018	WEIGHT OF A FATTY ACID AND AN	(11) EP3749283
(33) Korea (Republic)	ANTIDANDRUFF AGENT	(21) EP19707187.1
(51) A61K 8/02	(73) L'OREAL	(47) 11.10.2023
A61K 8/34	(72) COGNET, Marie	(87) US2019016947
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A61K 8/891	WANG, Miao	(22) 07.02.2019
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(11) EP4167921	(32) 15.12.2015	(73) Boston Scientific Scimed, Inc.
(21) EP21731818.7	(33) France	(72) HOLLYER, Matthew B.
(47) 11.10.2023	(51) A61K 8/362	RAYBIN, Samuel
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(54) HAIR CONDITIONING COMPOSITION	(11) EP4007560	(51) A61K 9/00
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(73) Unilever IP Holdings B.V.	(47) 11.10.2023	A61K 47/18
(72) BARFOOT, Richard, Jonathan	(87) EP2020070905	A61P 15/08
COOKE, Michael, James	04.02.2021	A61K 38/24
MENDOZA FERNANDEZ, Cesar,	(22) 24.07.2020	A61K 47/20
Ernesto	(54) AN ANTIDANDRUFF COMPOSITION	(11) EP3791860
PRICE, Paul, Damien	(73) Unilever IP Holdings B.V.	(21) EP20202758.7
(31) 20181255	(72) KADAMKODE, Vinitha	(47) 11.10.2023
(32) 19.06.2020	MITRA, Rupak	(22) 24.02.2017
(33) European Patent Office (EPO)	(31) 19189592	(54) STABLE LIQUID GONADOTROPIN
(51) A61K 8/34	(32) 01.08.2019	FORMULATION
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		(72) Sjögren, Helen Ulrika

Højer-Pedersen, Charlotte	25.10.2018	(31) 201562107696 P
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A61K 9/14	(72) POTTA, Thrimoorthy	A61K 9/20
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A61K 31/05	YAN, Ningxin	A61K 38/26
A61K 31/352	GOSKONDA, Venkat	A61P 3/04
A61K 31/436	CHILAMPALLI, Chandeshwari	A61P 3/10
A61K 38/06	INAVOLU, Rachana	(11) EP4009957
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(87) IL2018050807	A61K 36/537	COMPRISING A PYY COMPOUND
24.01.2019	A61K 36/534	AND A SALT OF N-(8-(2-
(22) 20.07.2018	A61K 45/06	HYDROXYBENZOYL)AMINO)CAPRYLIC
(54) NANOPARTICLE COMPOSITIONS	A61K 47/34	ACID
(73) Yissum Research Development	A61K 47/06	(73) Novo Nordisk A/S
Company of the Hebrew University of	A61K 47/20	(72) VEGGE, Andreas
Jerusalem Ltd.	A61K 31/155	WULFF, Birgitte, Schjellerup
Indiana University Research and	A61K 31/37	NISSEN, Birgitte
Technology Corporation	A61K 31/395	ØSTERGAARD, Søren
(72) DOMB, Abraham Jacob	A61K 31/4174	PEDERSEN, Betty Lomstein
KUBEK, Michael	A61K 31/7036	(31) 19190571
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(22) 20.10.2017	ACTIVE AGENTS USING VOLATILE,	AND TREATING ALPHA-
(54) HYDROGEL COMPOSITIONS	HYDROPHOBIC SOLVENTS	SYNUCLEINOPATHIES, TAUOPATHIES,
AND DRUG DELIVERY SYSTEMS	(73) Rochal Technologies LLC	AND OTHER DISORDERS
COMPRISING THE SAME	(72) SALAMONE, Joseph Charles	(73) PTC Therapeutics, Inc.
(73) Industrial Technology Research Institute	CHEN, Xiaoyu	(72) HINMAN, Andrew W.
(72) Chiang, Wen-Hsuan	SALAMONE, Ann, Beal	HOLST, Charles R.
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Cheng, Felice	(31) 201261723113 P	MOLLARD, Paul
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Chiu, Ya-Ling	(33) United States of America	TRIMMER, Jeffrey K.
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A61K 47/02	(47) 11.10.2023	A61K 31/352
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(73) GW Research Limited	(51) A61K 31/343	(11) EP2726071
(72) SILCOCK, Alan WHALLEY, Benjamin GRAY, Royston STRAKER, Hannah TSE, Karen COBB, Alexander BRYANT, Laura	A61K 45/06 A61P 3/10 A61P 1/16 A61P 3/04 A61P 3/06 A61P 7/02 A61P 9/00 A61P 9/10 A61P 9/12 A61P 9/14 A61P 13/12 A61P 25/00 A61P 27/02	(21) EP12804394.0 (47) 11.10.2023 (87) US2012045095 03.01.2013 (22) 29.06.2012 (54) TOPICAL FORMULATIONS INCLUDING LIPID MICROCAPSULE DELIVERY VEHICLES AND THEIR USES
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(54) DEVICE FOR THE EXTRACTION AND ASPIRATION OF ACTIVE SUBSTANCES, IN PARTICULAR FROM THE CANNABIS PLANT	(51) A61K 31/343 A61K 45/06 A61P 25/24	(31) 201710042 (32) 23.06.2017 (33) United Kingdom
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SCALFARO, Pietro	A61P 3/06	A61P 25/00
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(22) 19.12.2019	(73) Japan Tobacco Inc.	OR-GEVA, Noga
(54) CANCER TREATMENTS	(72) UEDA, Yoshifumi	OPHIR, Eran
(73) Imperial College Innovations Limited	KURIMOTO, Takafumi	EIDELSTEIN, Yaki
(72) TATE, Edward William	(31) 2018100669	GIDRON BUDOVSKY, Rotem
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(22) 14.03.2019	THEREOF	DISEASES
(54) HIGHLY POTENT TACC3 INHIBITOR	(73) Contipro A.S.	(73) Metabogen AB
AS A NOVEL ANTICANCER DRUG	(72) PRAVDA, Martin	(72) KARLSSON, Fredrik
CANDIDATE	KOVAROVA, Lenka	MÖLLSTAM, Bo
(73) OncoCube Therapeutics LLC	SCIGALKOVA, Ivana	(31) 201562266771 P
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AKBULUT, Özge	VELEBNY, Vladimir	<hr/>
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(73) Havi Global Solutions, LLC	(22) 18.01.2022	LI, Hong Wen
(72) HULSEMAN, Ralph, Allen	(54) METHOD AND DEVICE FOR	HSU, Yaw Yuan
MCPHERSON, Cameron	PRODUCING A THREE-DIMENSIONAL	(31) 201711339752
(31) 201715424627	OBJECT IN AN OPTICALLY REACTIVE	(32) 14.12.2017
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(32) 03.02.2017	(73) Xolo GmbH	(51) B29C 65/48
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(51) B29C 63/32	(33) Germany	B29C 65/00
F16L 1/00	(51) B29C 64/209	B29C 65/14
F16L 55/163	B29C 64/393	B23P 19/04
B29C 63/00	B29C 64/227	B29K 105/16
F16L 55/165	B33Y 30/00	B29K 505/00
B29L 23/00	B33Y 50/02	B29L 31/00
(11) EP3725495	(11) EP3898196	B29L 31/26
(21) EP20179811.3	(21) EP19901035.6	B29L 31/30
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(22) 30.03.2017	(87) US2019066846	(21) EP19187066.6
(54) PIPE-MAKING APPARATUS AND PIPE-	25.06.2020	(47) 11.10.2023
MAKING METHOD	(22) 17.12.2019	(22) 18.07.2019
(73) Sekisui Chemical Co., Ltd.	(54) PRINT HEAD FOR ADDITIVE	(54) JOINED PROFILE STRAND HAVING
(72) SUGAHARA, Hiroshi	MANUFACTURING PROVIDING	A METAL MARKER AND JOINING
BABA, Tatsurou	DYNAMIC HOB PINCH FORCE	METHOD OF MANUFACTURING SAME
YAMASAKI, Masahiro	(73) Jabil Inc.	(73) Eldisy GmbH
SUGIYAMA, Yoshirou	(72) KLIMCZAK, Scott	(72) Bäßler, Manuel
(31) 2016070641	RODGERS, Luke	Barth, Stefan
(32) 31.03.2016	BURGESS, Darin	Gäde, Daniel
(33) Japan	(31) 201862782574 P	(51) B29C 65/54
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B29C 67/00	B29C 64/165	B29C 65/52
B33Y 10/00	B33Y 50/02	F01D 5/30
B33Y 30/00	B33Y 10/00	B29C 65/00
B29C 64/245	B33Y 30/00	F01D 9/04
B29C 64/118	(11) EP3774287	B29L 31/30
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B29C 64/295	(47) 11.10.2023	(11) EP3999325
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(21) EP20755629.1	06.02.2020	(47) 11.10.2023
(47) 11.10.2023	(22) 31.07.2018	(87) EP2020069852
(87) US2020016982	(54) TEMPERATURE CONTROL IN	21.01.2021
20.08.2020	ADDITIVE MANUFACTURING	(22) 14.07.2020
(22) 06.02.2020	SYSTEMS	(54) INJECTION BONDING OF COMPOSITE
(54) INFRARED HEATING OF ADDITIVE	(73) HEWLETT-PACKARD DEVELOPMENT	VANE INTO POCKET
PRINTED PART	COMPANY, L.P.	(73) GKN Aerospace Sweden AB
(73) Essentium IPCO, LLC	(72) BARNES, Arthur H.	(72) LOOF, Johan
(72) GJOVIK, Erik John	VERZWYVELT, Vanessa	FRAMPTON, Andrew
GREENE, Jason	SHEPHERD, Matthew A.	PETTERSSON, Jocke
MACNEISH, William Jack III	(51) B29C 65/02	(31) 201910198
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(32) 12.02.2019	B29C 65/18	(33) United Kingdom
(33) United States of America	B29C 65/74	(51) B29C 70/04

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B32B 27/08	(21) EP17793804.0	APPLICATION OF NOISE REDUCING
B32B 27/20	(47) 11.10.2023	ELEMENTS TO TYRES FOR VEHICLE
(11) EP4007692	(87) US2017057502	WHEELS AND WORKING STATION
(21) EP20764767.8	03.05.2018	THEREFOR
(47) 11.10.2023	(22) 20.10.2017	(73) Pirelli Tyre S.p.A.
(87) IB2020057312	(54) FORMING AND CUTTING TOOL FOR	(72) BOSCAINO, Ivan Gildo
11.02.2021	COMPOSITE MATERIAL AND METHOD	FABBRETTI, Marco
(22) 03.08.2020	FOR FORMING AND CUTTING A	VANIGLIA, Erika
(54) MANUFACTURED ARTICLES	COMPOSITE MATERIAL BLANK	(31) 201800007116
CONSISTING OF THE COUPLING OF	(73) Dow Global Technologies LLC	(32) 11.07.2018
TWO POLYAMIDE-BASED PARTS, ONE	(72) TUDOR, Jay, M.	(33) Italy
OF WHICH FIBRE-REINFORCED, AND	WENZEL, Jeffrey, D.	(51) B29D 30/02
A PROCESS FOR THE PRODUCTION	KALEYTA, Scott, R.	B60C 7/22
THEREOF	(31) 201662411770 P	(11) EP3953163
(73) Radici Partecipazioni S.p.A.	(32) 24.10.2016	(21) EP20719741.9
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(72) SPINI, Erico	(51) B29C 70/84	(87) IB2020053400
PEDUTO, Nicolangelo	B29C 65/00	15.10.2020
FRASSINE, Roberto	(11) EP3710240	(22) 09.04.2020
ANDREONI, Arturo Angelo	(21) EP18884455.9	(54) SOLID TYRE MADE OF ELASTOMER
DEVASINI, Chiara	(47) 11.10.2023	MATERIAL FOR A ROLLER OF A
CONTINO, Marco	(87) CA2018051523	CABLE RAILWAY
(31) 201900013803	06.06.2019	(73) Compagnie Générale des
(32) 02.08.2019	(22) 29.11.2018	Etablissements Michelin
(33) Italy	(54) MOULD ASSEMBLY FOR FORMING AN	(72) SOUYRI, Philippe
(51) B29C 70/30	ELONGATE ARTICLE	DEAN, David
B29C 53/00	(73) EHC Canada, Inc.	(31) 1903905
(11) EP4051490	(72) KENNY, Andrew Oliver	(32) 11.04.2019
(21) EP20800574.4	DIXON, Gregg Scott	(33) France
(47) 11.10.2023	BUTWELL, Reginald Anthony	(51) B29D 30/06
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(54) COMPONENT MADE OF A FIBRE-	(51) B29C 70/88	(22) 06.12.2021
REINFORCED PLASTIC WITH	B29C 70/24	(54) TIRE MOLD
REDUCED PULL-APART STRESS,	B29D 99/00	(73) The Goodyear Tire & Rubber Company
AND METHOD FOR PRODUCING THE	B29L 31/08	(72) WINDESHAUSEN, Michel Jean Yves
SAME	B64C 11/20	(31) 202063127253 P
(73) Airbus Operations GmbH	D03D 25/00	(32) 18.12.2020
(72) SCHUBERT, Konstantin	F01D 5/28	(33) United States of America
BORN, Johannes	F01D 21/04	(51) B29D 30/06
ELBRACHT, Dirk	(11) EP3873725	B29C 73/16
(31) 102019128997	(21) EP19795015.7	B29L 30/00
(32) 28.10.2019	(47) 11.10.2023	B60C 19/12
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(21) EP21151305.6	(73) SAFRAN AIRCRAFT ENGINES	(22) 21.12.2016
(47) 11.10.2023	(72) DE GAILLARD, Thomas Alain	(54) TIRE MANUFACTURING METHOD
(22) 13.01.2021	NOTARIANNI, Gilles, Pierre-Marie	(73) Bridgestone Corporation
(54) CO-MOLDING OF NON-CRIMPED	POUZADOUX, Frédéric, Jean-Bernard	(72) OOSHIMA, Takayuki
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(73) Magna Exteriors Inc.	(32) 30.10.2018	(31) 2016021998
(72) Schrempf, Rudolph A.	(33) France	(32) 08.02.2016
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B29C 51/32		METHOD FOR TRANSFERRING ONE

OR MORE PLYS ONTO A CARCASS	(22) 19.02.2020	(22) 05.09.2022
PACKAGE ON A TIRE BUILDING DRUM	(54) APPARATUS AND METHOD FOR MONITORING THE LUBRICATING STATE OF A ROTATING BELT FOR TRANSPORTING MATERIAL TO BE PRESSED, TO WHICH BELT A LUBRICANT HAS BEEN APPLIED	(54) MOTOR VEHICLE INNER LINING PART COMPRISING A COVERING LAYER AND METHOD FOR MANUFACTURING SAME
(73) VMI Holland B.V.		(73) SMRC Automotive Holdings Netherlands B.V.
(72) PAPOT, Dave		(72) CHOQUET, Alain
DE GRAAF, Martin		LECLERC, Eric
(31) 2022628		(31) 2109514
(32) 22.02.2019		(32) 10.09.2021
(33) Netherlands		(33) France
(51) B29D 30/26	(73) Siempelkamp Maschinen- und Anlagenbau GmbH	(51) B32B 3/26
B29D 30/32	(72) GARTZ, Klaus	B32B 7/023
B29D 30/00	(31) 102019107152	B32B 7/12
(11) EP4015204	(32) 20.03.2019	B32B 9/00
(21) EP21208899.1	(33) Germany	B32B 9/04
(47) 11.10.2023	(51) B31F 1/14	B32B 17/10
(22) 18.11.2021	(11) EP4076931	B32B 21/08
(54) DEVICE, SYSTEM AND METHOD FOR TRANSPORTING A CORE FOR THE MANUFACTURE OF A VEHICLE TYRE	(21) EP20764370.1	B32B 27/06
(73) Continental Reifen Deutschland GmbH	(47) 11.10.2023	B32B 27/36
(72) Brehmeier, Stefan	(87) EP2020074083	(11) EP4147868
Werner, Lukas	24.06.2021	(21) EP22193949.9
Knull, Stephan	(22) 28.08.2020	(47) 11.10.2023
Havekost, Yannic	(54) CREPING BLADE DESIGN	(22) 05.09.2022
Su, Dejun	(73) Clouth Sprenger GmbH	(54) MOTOR VEHICLE INNER LINING PART COMPRISING A COVERING LAYER AND METHOD FOR MANUFACTURING SAME
(31) 102020216025	(72) KOSSMANN, Jörg	(73) SMRC Automotive Holdings Netherlands B.V.
(32) 16.12.2020	GERHARDT, Arne	(72) CHOQUET, Alain
(33) Germany	GORBATSCHEWSKI, Eugen	(31) 2109517
(51) B30B 11/26	GILLA, Mariusz	(32) 10.09.2021
B21C 23/21	(31) 102019134982	(33) France
F15B 1/26	(32) 18.12.2019	(51) B32B 5/02
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(47) 11.10.2023	B32B 5/14	B32B 27/12
(22) 31.05.2021	B32B 27/08	B32B 29/02
(54) HYDRAULIC UNIT FOR A CONTINUOUS EXTRUDER OF SUCH UNITS AND EXTRUDER WITH THE HYDRAULIC UNIT	B32B 27/32	B32B 29/06
(73) Robert Bosch GmbH	B32B 3/26	B32B 5/26
(72) Bierod, Jan Lukas	(11) EP3894207	B32B 15/085
Muehlhausen, Mark-Patrick	(21) EP19817866.7	B32B 15/09
Amend, Matthias	(47) 11.10.2023	B32B 15/20
Maier, Ralf	(87) US2019061446	B32B 37/00
Huber, Alexander	18.06.2020	B32B 41/00
Mueller, Elke	(22) 14.11.2019	B32B 7/025
Heuer, Engelbert	(54) SILO BAGS WITH NON-UNIFORM THICKNESS AND METHODS OF PRODUCING	B32B 7/04
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B27N 3/24	KOPPI, Kurt A.	(73) Nanopharma A. S.
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G01N 21/84	(33) United States of America	KLÁP OVÁ, Andrea
G01N 21/89	(51) B32B 3/26	RASSUSHIN, Vladimir
G01N 21/94	B32B 5/02	FOLBERGER, Ladislav
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(47) 11.10.2023	(33) China	(73) SAINT-GOBAIN GLASS FRANCE
(87) EP2020084471	(51) B32B 7/12	(72) KLEIN, Marcel
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(54) LAMINATE	B32B 15/085	16159469
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(72) BECHER, Christoph	B32B 27/08	09.03.2016
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(21) EP14830690.5	FILM AND LAMINATE OBTAINABLE	(54) LAMINATED GLAZING
(47) 11.10.2023	THEREFROM	(73) Pilkington Group Limited
(87) IB2014067005	(73) Danapak Flexibles A/S	(72) BENEDETTO, Gustavo
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(47) 11.10.2023	B32B 17/06	MECHANICAL STRENGTH
(22) 22.08.2019	B32B 38/08	(73) Saint-Gobain Glass France
(54) METHOD FOR PRODUCING A	B32B 37/12	(72) TONDU, Thomas
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FOR A VEHICLE INTERIOR TRIM,	(21) EP15729745.8	(32) 30.08.2019
COVERING MATERIAL PRODUCED	(47) 11.10.2023	(33) France
FROM SAID METHOD AND INTERIOR	(87) AT2015050124	(51) B32B 23/06
TRIM COMPRISING SUCH A	26.11.2015	B32B 27/00
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(73) Sandler AG	(54) COMPOSITE ELEMENT WITH A	B41J 11/00
(72) Kreuzer, Stefan	COVERING LAYER OF VENEER	B41J 15/04
Hornfeck, Ulrich	(73) F. List GmbH	B41M 5/00
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B32B 17/10	B32B 17/10	B65B 41/16
B32B 27/28	G02B 6/00	B65B 57/04
G06F 1/16	F21V 8/00	B41F 19/00
B32B 7/022	F21V 33/00	(11) EP3964361
B32B 27/36	B60Q 3/10	(21) EP21193733.9
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(73) Tetra Laval Holdings & Finance S.A.	(72) COLSON, Paul M.	(51) B41J 2/165
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B32B 27/36	(47) 11.10.2023	(72) PAFFEN, Tim F.E.
B65D 65/40	(22) 24.08.2021	KUZNETSOV, Evgenij V.
C08J 5/18	(54) DEVICE FOR RELEASING SOLVENT-BASED FLEXOGRAPHIC PRINTING PLATES FROM SOLVENT AND METHOD FOR PRODUCING FLEXOGRAPHIC PRINTING PLATES	GERRITS, Carolus E.P.
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(73) Südpack Verpackungen GmbH & Co. KG	B41F 15/08	(73) BROTHER KOGYO KABUSHIKI KAISHA
(72) Grimbacher, Carolin	H05K 3/34	(72) NAKAZAWA, Fumio
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(33) Germany	(11) EP3742872	TAKAHASHI, Hiroaki
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C08F 220/18	(47) 11.10.2023	MIYAO, Takahiro
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B60K 6/46	LI, Jianwen	(51) B60L 3/00
B60K 6/54	HOU, Defeng	H02P 27/06
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(54) VEHICLE DRIVE UNIT	(22) 16.03.2022	(72) MITSUI Toshisada
(73) Mitsubishi Jidosha Kogyo Kabushiki	(54) METHOD AND DEVICE FOR THE SAFE	MIYAZAKI Hideki
Kaisha	DISPLAY OF ASIL-RELEVANT DATA	YAHATA Koichi
(72) TANIZAWA, Shoji	ON A DISPLAY DEVICE OF A MOTOR	HOSHINO Katsuhiko
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(73) Taiwan ABS Test Center Co., Ltd.	B60L 58/24	VEHICLE BATTERY
(72) CHEN, Fu-Chieh	B60L 3/00	(73) ContiTech Antriebssysteme GmbH
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B60T 8/17	(22) 08.06.2022	(33) France
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B60L 7/26	VEHICLE	(51) B60M 1/32
B60L 15/20	(73) Erbslöh Aluminium GmbH	B60M 1/14
B60T 7/12	(72) SUCKE, Herr Norbert William	(11) EP3766730
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(73) Fujikura Ltd.	B60N 2/36	Adams, Peter
(72) NAKAZAKI Shigeru	(11) EP3912855	(72) GREINER, Michael
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(47) 11.10.2023	OR SEMI-TRAILER COMPRISING	(72) LE DALL, Christophe
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(73) VOLKSWAGEN	(72) SCHOENHERR, Michael	ADEEB, Adam
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(72) PARISOTTO, NEREO	(21) EP21192348.7	(72) ATSUSHI, Hiroaki
(31) 201900001395	(47) 11.10.2023	CHIBA, Kazuki
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(72) REDAELLI, Guido	(51) B60T 8/17	(54) A PNEUMATIC BRAKING SYSTEM FOR AN AXLE OF A VEHICLE
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B60T 15/02	(72) KUWANO, Yuuki	(73) Bayerische Motoren Werke Aktiengesellschaft
F16K 31/42	SHIMIZU, Yosuke	(72) GÖTZ, Alexander
F16K 31/40	HAGIWARA, Keizo	UNGERMANN, Sören
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(73) Haldex Brake Products Aktiebolag	G01C 21/26	(11) EP3925845
(72) Heer, Siegfried	G01C 21/36	(21) EP19914188.8
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(73) Ergon International GmbH	(73) SRAM, LLC	(72) KREISCHER, Johannes, Bernardus, Gerardus
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(73) SAIPEM S.A. (72) COLMARD, Christophe FRANC, Paul LE CLEZIO, Jean-Baptiste GENTIL, Frédéric DELAHAYE, Thierry CHAZOT, Nicolas HALLOT, Raymond (31) 1761342 (32) 29.11.2017 (33) France (51) B63B 35/44 (11) EP3854669 (21) EP21162730.2 (47) 11.10.2023 (22) 27.11.2018 (54) METHOD FOR INSTALLING AN OFFSHORE WIND TURBINE PROVIDED WITH A FLOATING SUPPORT STRUCTURE	(31) 1761342 (32) 29.11.2017 (33) France (51) B64C 1/00 B64C 1/12 B64F 5/10 B05D 1/28 B05D 7/22 F16B 5/00 F16B 19/04 (11) EP2666715 (21) EP13169041.4 (47) 11.10.2023 (22) 23.05.2013 (54) Method of filling voids around countersunk fastener heads (73) The Boeing Company (72) Anderson, Weston, K. Ambrose, Paul, J. Steele, Eric, R. (31) 201213479262 (32) 23.05.2012 (33) United States of America	(65) B64C 11/28 B64U 30/293 B64C 29/00 (11) EP3797070 (21) EP19820350.7 (47) 11.10.2023 (87) US2019036292 19.12.2019 (22) 10.06.2019 (54) FOLDING CONCENTRICALLY MOUNTED PROPELLER BLADES FOR DRAG REDUCTION (73) Wing Aviation LLC (72) PRAGER, André (31) 201816007918 (32) 13.06.2018 (33) United States of America
(73) SAIPEM S.A. (72) COLMARD, Christophe FRANC, Paul LE CLEZIO, Jean-Baptiste GENTIL, Frédéric DELAHAYE, Thierry CHAZOT, Nicolas HALLOT, Raymond (31) 1761342 (32) 29.11.2017 (33) France (51) B63B 35/44 (11) EP3854670 (21) EP21162733.6 (47) 11.10.2023 (22) 27.11.2018 (54) METHOD FOR INSTALLING AN OFFSHORE WIND TURBINE PROVIDED WITH A FLOATING SUPPORT STRUCTURE	(51) B64C 3/18 B64C 3/34 B64F 5/10 B29C 43/10 B29C 43/36 B29C 70/44 B29C 70/84 B29D 99/00 B64C 3/20 B64C 3/26 B29C 33/50 (11) EP3894168 (21) EP20726742.8 (47) 11.10.2023 (87) EP2020063249	(65) B64C 11/30 B64C 11/44 F01D 7/00 B64U 30/20 B64U 50/19 F16C 19/18 B64C 27/473 B64C 11/06 B64C 11/32 B64C 11/38 F02C 6/20 F04D 29/28 F04D 29/32 F04D 29/36 B63H 3/00
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(72) SCHMIDT, Robert Kyle	(72) FERRONI, Stefano	(73) GE Aviation Systems LLC
(51) B64C 27/12	SIMONE, Antonia	

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(73) Meyer, Jeffery	(73) Dalli-Werke GmbH & Co. KG	Nagl, Martin
(72) Meyer, Jeffery	(72) KÖLB, Christine	(31) 102019006182
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(33) Japan	MAMELI, Alberto	HARPUR, David
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(51) B65D 5/49	(31) 18168373	KALATHAKI, Iasmi
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B29C 45/16	(54) A MULTILAYER COVER ELEMENT FOR	(73) Smurfit Kappa GmbH
B65D 55/02	SEALING CAPSULES FOR MAKING	(72) Axler, Thomas
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(51) B65D 47/08	(21) EP18701029.3	(72) Neuhofer, Stefan
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FOX, Jamie	(22) 21.02.2018	HEYDEL, Christophe, Sébastien, Paul
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(21) EP20383031.0	(21) EP21206054.5	(54) CAPSULE OF COMPOSITE MATERIAL
(47) 11.10.2023	(47) 11.10.2023	AND STRUCTURAL CONFIGURATION
(22) 26.11.2020	(22) 21.01.2019	OF REINFORCED BASE
(54) ASSEMBLY COMPRISING A	(54) A PACK	(73) Novadelta - Comércio e Indústria de
CONTAINER AND A CLOSURE DEVICE	(73) British American Tobacco (Investments)	Cafés, Unipessoal Lda
ATTACHED TO THE CONTAINER	Limited	(72) NABEIRO, Rui Miguel
(73) Betapack, S.A.U.	(72) HOLFORD, Steven	DE FIGUEIREDO BRANCO, João André
(72) BERROA GARCÍA, Javier	(31) 201801347	GONÇALVES MARTINS, Marco Filipe
(51) B65D 63/16	(32) 26.01.2018	(31) 2019115299
F16G 11/10	(33) United Kingdom	(32) 08.02.2019
F16G 11/12	(51) B65D 85/10	(33) Portugal
(11) EP3862288	(11) EP3562758	(51) B65D 88/12
(21) EP21156108.9	(21) EP17822318.6	(11) EP4086193
(47) 11.10.2023	(47) 11.10.2023	(21) EP22171728.3
(22) 09.02.2021	(87) EP2017084427	(47) 11.10.2023
(54) AN ELONGATE STRIP AND AN	05.07.2018	(22) 05.05.2022
ADAPTER FOR USE WITH THE	(22) 22.12.2017	(54) ROLLER CONTAINER WITH
ELONGATE STRIP, AND METHOD	(54) CONTAINER HAVING AT LEAST ONE	IMPROVED COVER SYSTEM
(73) Slater, Nigel	MOVABLE PANEL, SYSTEM	(73) LVC Containerbouw
(72) Slater, Nigel	(73) Philip Morris Products S.A.	Valvan Containers & Milieutechniek NV
(31) 202001809	(72) CAILLEAUX, Timothee	(72) DE BAENE, Johan
(32) 10.02.2020	(31) 16207623	(31) 202105372
(33) United Kingdom	(32) 30.12.2016	(32) 07.05.2021
(51) B65D 65/46	(33) European Patent Office (EPO)	(33) Belgium
(11) EP4045435	(51) B65D 85/68	(51) B65G 1/04
(21) EP20801407.6	(11) EP3925905	(11) EP4034478
(47) 11.10.2023	(21) EP20180680.9	(21) EP20775862.4
		(47) 11.10.2023

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(22) 21.09.2020	(32) 21.06.2019	15.05.2020
(54) AN AUTOMATED STORAGE AND RETRIEVAL SYSTEM WITH A VEHICLE PEN AND A METHOD OF MOVING A VEHICLE BETWEEN A FIRST AREA AND A SECOND AREA OF AN AUTOMATED STORAGE AND RETRIEVAL SYSTEM	(33) Italy (51) B65H 19/18 B65H 21/00 B65H 35/00 B65H 35/06 (11) EP3757046 (21) EP20180319.4 (47) 11.10.2023	(33) Germany Germany (51) B66B 1/08 B66B 1/38 B66B 5/02 B66B 5/16 B66B 5/18 B66B 5/22 B66B 5/26 B66B 5/24 F16D 63/00 F16D 125/60 F16D 125/64 (11) EP3504143 (21) EP17847398.9 (47) 11.10.2023 (87) US2017049195 08.03.2018 (22) 29.08.2017 (54) MECHANICAL BRAKE INTERRUPTER DEVICE
(73) AUTOSTORE TECHNOLOGY AS (72) HEGGEBØ, Jørgen, Djuve (31) 20200762 20191158	(47) 11.10.2023 (22) 16.06.2020 (54) DEVICE AND METHOD FOR JOINING TWO SHEETS OF MATERIAL EACH RUNNING FROM A REEL (73) Körber Technologies GmbH (72) Horn, Matthias Janthur, Thomas Busch, Karl Richard Grothaus, Frank Henning, Axel Karger, Marius (31) 102019117180	(11) EP3504143 (21) EP17847398.9 (47) 11.10.2023 (87) US2017049195 08.03.2018 (22) 29.08.2017 (54) MECHANICAL BRAKE INTERRUPTER DEVICE (73) SafeWorks, LLC (72) ZWAAN, Olaf MISEUR, Dirk PUT, Thijmen (31) 201662380958 P (32) 29.08.2016 (33) United States of America
(32) 30.06.2020 25.09.2019 (33) Norway Norway	(72) Horn, Matthias Janthur, Thomas Busch, Karl Richard Grothaus, Frank Henning, Axel Karger, Marius (31) 102019117180	(11) EP3504143 (21) EP17847398.9 (47) 11.10.2023 (87) US2017049195 08.03.2018 (22) 29.08.2017 (54) MECHANICAL BRAKE INTERRUPTER DEVICE (73) SafeWorks, LLC (72) ZWAAN, Olaf MISEUR, Dirk PUT, Thijmen (31) 201662380958 P (32) 29.08.2016 (33) United States of America
(51) B65G 9/00 B65G 17/20 B65G 47/61 B65G 1/137 (11) EP4074629 (21) EP21168927.8 (47) 11.10.2023 (22) 16.04.2021 (54) OVERHEAD CONVEYOR WITH UNLOADING STATION	(51) B65H 19/30 C08J 5/18 B65H 19/22 (11) EP3677531 (21) EP18851016.8 (47) 11.10.2023 (87) EA2018000005 07.03.2019 (22) 10.08.2018 (54) METHOD OF REMOVING A ROLL OF WOUND POLYMER FILM WITHOUT A CORE FROM A MANDREL	(54) MECHANICAL BRAKE INTERRUPTER DEVICE (73) SafeWorks, LLC (72) ZWAAN, Olaf MISEUR, Dirk PUT, Thijmen (31) 201662380958 P (32) 29.08.2016 (33) United States of America (51) B66B 1/24 B66B 5/00 (11) EP3656715 (21) EP19210929.6 (47) 11.10.2023 (22) 22.11.2019 (54) SYSTEM FOR PROVIDING ELEVATOR SERVICE TO PERSONS WITH PETS (73) Otis Elevator Company (72) SINGARAJU, Ravikiran SWAMI, Aditya VUSHAKOLA, Ranjith DHUMAL, Tejas Arunrao (31) 201811044083 (32) 22.11.2018 (33) India
(73) BEUMER Group GmbH & Co. KG (72) Neugebauer, Jürgen	(11) EP3677531 (21) EP18851016.8 (47) 11.10.2023 (87) EA2018000005 07.03.2019 (22) 10.08.2018 (54) METHOD OF REMOVING A ROLL OF WOUND POLYMER FILM WITHOUT A CORE FROM A MANDREL	(54) MECHANICAL BRAKE INTERRUPTER DEVICE (73) SafeWorks, LLC (72) ZWAAN, Olaf MISEUR, Dirk PUT, Thijmen (31) 201662380958 P (32) 29.08.2016 (33) United States of America (51) B66B 1/24 B66B 5/00 (11) EP3656715 (21) EP19210929.6 (47) 11.10.2023 (22) 22.11.2019 (54) SYSTEM FOR PROVIDING ELEVATOR SERVICE TO PERSONS WITH PETS (73) Otis Elevator Company (72) SINGARAJU, Ravikiran SWAMI, Aditya VUSHAKOLA, Ranjith DHUMAL, Tejas Arunrao (31) 201811044083 (32) 22.11.2018 (33) India
(51) B65H 1/00 C12Q 1/68 B01L 3/00 (11) EP3560866 (21) EP19161983.2 (47) 11.10.2023 (22) 31.07.2013 (54) SYSTEM AND APPARATUS FOR AUTOMATED INCUBATION	(51) B65H 67/04 B65H 65/00 D01H 4/50 D01H 4/48 D01H 15/00 (11) EP3909896 (21) EP21172363.0 (47) 11.10.2023 (22) 06.05.2021 (54) SPINNING DEVICE AND METHOD FOR PIECING	(54) MECHANICAL BRAKE INTERRUPTER DEVICE (73) SafeWorks, LLC (72) ZWAAN, Olaf MISEUR, Dirk PUT, Thijmen (31) 201662380958 P (32) 29.08.2016 (33) United States of America (51) B66B 1/24 B66B 5/00 (11) EP3656715 (21) EP19210929.6 (47) 11.10.2023 (22) 22.11.2019 (54) SYSTEM FOR PROVIDING ELEVATOR SERVICE TO PERSONS WITH PETS (73) Otis Elevator Company (72) SINGARAJU, Ravikiran SWAMI, Aditya VUSHAKOLA, Ranjith DHUMAL, Tejas Arunrao (31) 201811044083 (32) 22.11.2018 (33) India (51) B66B 1/32 B66B 5/00 (11) EP3816080 (21) EP20204636.3 (47) 11.10.2023 (22) 29.10.2020 (54) BRAKE DEVICE FOR ELEVATOR SYSTEM AND TESTING METHOD FOR BRAKE DEVICE (73) Otis Elevator Company (72) Li, GuoSong Zhou, Hua Zhang, Zixu (31) 201911043450 (32) 30.10.2019 (33) China
(73) Gen-Probe Incorporated (72) BUSE, David COMBS, David Howard HAGEN, Norbert D. OPALSKY, David RICHARDSON, Bruce PRASAD, Anita MORAVICK, Keith MOORE, Tyler (31) 201361783952 P 201261677976 P (32) 14.03.2013 31.07.2012 (33) United States of America United States of America	(31) 201700406 (32) 28.08.2017 (33) Eurasian Patent Organization (51) B65H 67/04 B65H 65/00 D01H 4/50 D01H 4/48 D01H 15/00 (11) EP3909896 (21) EP21172363.0 (47) 11.10.2023 (22) 06.05.2021 (54) SPINNING DEVICE AND METHOD FOR PIECING	(54) SYSTEM FOR PROVIDING ELEVATOR SERVICE TO PERSONS WITH PETS (73) Otis Elevator Company (72) SINGARAJU, Ravikiran SWAMI, Aditya VUSHAKOLA, Ranjith DHUMAL, Tejas Arunrao (31) 201811044083 (32) 22.11.2018 (33) India (51) B66B 1/32 B66B 5/00 (11) EP3816080 (21) EP20204636.3 (47) 11.10.2023 (22) 29.10.2020 (54) BRAKE DEVICE FOR ELEVATOR SYSTEM AND TESTING METHOD FOR BRAKE DEVICE (73) Otis Elevator Company (72) Li, GuoSong Zhou, Hua Zhang, Zixu (31) 201911043450 (32) 30.10.2019 (33) China
(51) B65H 19/18 B65H 16/02 B65H 18/02 B65H 19/26 (11) EP3753883 (21) EP20181296.3 (47) 11.10.2023 (22) 21.06.2020 (54) HIGH SPEED DIGITAL PRINTING SYSTEM AND METHOD FOR CONTINUOUS WEB	(73) Maschinenfabrik Rieter AG (72) BAHLMANN, Bernd POHN, Romeo MEIER, Thomas-Georg STEPHAN, Adalbert MALECK, Mario HAUNSCHILD, Helmut KETTNER, Christian FRITZ, Sebastian REUTHLINGER, Julian SCHÖNBERGER, Simon WEIN, Robin WIDNER, Harald PILAR, Evzen (31) 102020113268	(54) BRAKE DEVICE FOR ELEVATOR SYSTEM AND TESTING METHOD FOR BRAKE DEVICE (73) Otis Elevator Company (72) Li, GuoSong Zhou, Hua Zhang, Zixu (31) 201911043450 (32) 30.10.2019 (33) China (51) B66B 1/34 B66B 5/06 B66B 7/04 (11) EP3560873 (21) EP19170110.1
(73) Tecnav S.R.L. (72) APRATO, Armando DE MARCO, Giuliano	(73) Maschinenfabrik Rieter AG (72) BAHLMANN, Bernd POHN, Romeo MEIER, Thomas-Georg STEPHAN, Adalbert MALECK, Mario HAUNSCHILD, Helmut KETTNER, Christian FRITZ, Sebastian REUTHLINGER, Julian SCHÖNBERGER, Simon WEIN, Robin WIDNER, Harald PILAR, Evzen (31) 102020113268	(54) BRAKE DEVICE FOR ELEVATOR SYSTEM AND TESTING METHOD FOR BRAKE DEVICE (73) Otis Elevator Company (72) Li, GuoSong Zhou, Hua Zhang, Zixu (31) 201911043450 (32) 30.10.2019 (33) China (51) B66B 1/34 B66B 5/06 B66B 7/04 (11) EP3560873 (21) EP19170110.1

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(54) PROGNOSTIC FAILURE DETECTION OF ELEVATOR ROLLER GUIDE WHEEL	(31) PA201870586	(11) EP4031479
(73) Otis Elevator Company	(32) 13.09.2018	(21) EP20820483.4
(72) SR, Serralathan	(33) Denmark	(47) 11.10.2023
VEJANDLA, Vinod	(51) B66C 1/12	(87) FR2020051605
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(32) 23.04.2018	B66C 1/10	(22) 17.09.2020
(33) India	(11) EP4095083	(54) METHOD AND MACHINE FOR FILLING A CONTAINER TO A DESIRED LIQUID LEVEL
(51) B66B 1/46	(21) EP22174419.6	(73) Pep Technologies
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(47) 11.10.2023	(54) DEVICE FOR ALIGNING A RAISED LOAD	(32) 19.09.2019
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(54) ELEVATOR CONTROLS TERMINAL WITH SITUATION-SPECIFIC FLOOR DISPLAY	(32) 26.05.2021	(11) EP3529202
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(72) FELDER, Hugo	(51) B66C 23/34	(47) 11.10.2023
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(51) B66B 3/00	(22) 29.10.2020	(54) METHOD AND DEVICE FOR THE PRODUCTION OF BEVERAGE CONTAINERS WITH RECOOLING AND GAS SUPPLY
(11) EP3907167	(54) TOWER CRANE WITH AUTOMATIC FOLDING AND UNFOLDING STANCHION	(73) KRONES AG
(21) EP20214582.7	(73) Manitowoc Crane Group France	(72) ROIDL, Wolfgang
(47) 11.10.2023	(72) GEVAUDANT, Olivier	(73) HIRDINA, Jochen
(22) 16.12.2020	ALLOIN, Yves	(31) 102016119890
(54) ELEVATOR SYSTEM DISPLAY THAT PROVIDES DIFFERENT INFORMATION TO DIFFERENT INDIVIDUALS	VEILLEROT, Vincent	(32) 19.10.2016
(73) Otis Elevator Company	GRIMAUD, Simon	(33) Germany
(72) AUXIER, James Tilsley	CUILLERIER, Sylvain	(51) B67D 1/00
BOGLI, Craig Drew	(31) 1912237	B67D 1/08
TRCKA, Marija	(32) 31.10.2019	(11) EP3877320
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(32) 04.05.2020	(51) B67B 5/03	(47) 11.10.2023
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(47) 11.10.2023	25.03.2021	(73) Automatic Bar Controls, Inc.
(22) 12.04.2019	(22) 15.09.2020	Veloz, Silas
(54) HANDRAIL DEFLECTION DEVICE FOR AN ESCALATOR OR MOVING WALKWAY WITH HANDRAIL DEFLECTION BELT COMPRISING A PLURALITY OF SEGMENTS, AS WELL AS A HANDRAIL DEFLECTION BELT AND SEGMENT OF A HANDRAIL DEFLECTION BELT	(54) ROTARY CAPSULE DISPENSER FOR BOTTLING LINES	(72) VELOZ, Silas
(73) TK Elevator Innovation and Operations GmbH	(73) ROBINO & GALANDRINO S.p.A.	CRACKEL, Cullen James
(72) STANG, Sebastian	(72) CARILLO, Flavio	HECHT, Thomas
LUDWIG, Reiner	BIANCO, Mario Luigi	(31) 201862774670 P
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(54) ROTOR BLADE CLAMPING TOOL	(22) 08.09.2016	(72) KRÜGER, Marc
	(54) DEVICE AND METHOD FOR TREATING CONTAINERS WITH AIRCRAFT FOR SURVEILLANCE	EMPL, Günter
	(73) KRONES AG	FISCHER, Daniel
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(54) CARTRIDGE FOR A BEVERAGE OR	Victor Marie	PHOSPHORUS AND SYNGAS
FOOD SUBSTRATE	BRUIJL, Robin William Anton	(73) Kunming University Of Science And
(73) Freezio AG	VAN BARSCHOT, Barry Fransiscus	Technology
(72) KRÜGER, Marc	Wilhelmus	(72) MEI, Yi
EMPL, Günter	VAN BARSCHOT, Wilhelmus Theodorus	ZHAI, Chi
FISCHER, Daniel	Maria	NIE, Yunxiang
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102016218507	(32) 16.01.2020	XIE, Delong
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Germany	Shi, Zhenchun	PRODUCING METHANOL
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SYSTEM, BEVERAGE PREPARATION	(47) 11.10.2023	
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PREPARING A BEVERAGE	(54) METHOD AND APPARATUS FOR	C01B 3/48
(73) Freezio AG	MANUFACTURING AN INNERSPRING	C01B 3/12
(72) KRÜGER, Marc	UNIT	(11) EP3647264
EMPL, Günter	(73) Spühl GmbH	(21) EP18020567.6
FISCHER, Daniel	(72) FISCHER, Andreas	(47) 11.10.2023
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102016218509	(11) EP3233716	PRODUCTION OF A PURIFIED AND
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102016212012	(47) 11.10.2023	(73) L'AIR LIQUIDE, SOCIÉTÉ ANONYME
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01.08.2019	(33) European Patent Office (EPO)	(33) Japan
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(54) INTEGRATION OF PRESSURE	C01G 51/00	C02F 1/42
SWING ADSORPTION AND	C01G 53/00	B01D 29/27
HYDROPROCESSING FOR IMPROVED	H01M 4/525	B01D 35/143
HYDROGEN UTILIZATION	(11) EP4077217	B01D 24/04
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PANDEY, Gautam	24.06.2021	B01D 35/147
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(33) United States of America	BASED OXIDE CATHODE ACTIVE	(11) EP3763679
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C05B 11/08	RECHARGEABLE LITHIUM ION	(47) 11.10.2023
C05B 11/10	BATTERIES AND A METHOD FOR	(22) 09.08.2019
C05B 11/12	MAKING THEREOF	(54) FLUID PURIFICATION DEVICE
C01B 25/28	(73) Umicore	(73) Unger Marketing International, LLC
C01B 25/30	(72) PAULSEN, Jens	(72) HUDA, Stephen P.
C01B 25/32	SONG, KyeongSe	ADAMS, Paul H.
C01B 25/36	(31) 19217373	SMITH, Robert F.
C01B 25/37	(32) 18.12.2019	BUCKLEY, James
(11) EP3077335	(33) European Patent Office (EPO)	TRIUNFO, John Anthony
(21) EP14809339.6	(51) C01F 7/00	PATTERSON, Joseph K.
(47) 11.10.2023	A61K 33/04	LA TULIPPE, Michael T.
(87) EP2014076250	C01B 17/16	CAMP, Robert
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(73) Prayon	(87) JP2019025991	09.08.2018
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PCT/EP2013/075251	(54) PACKAGED BODY CONTAINING	United States of America
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A01N 43/58	(73) Norchim	PANIGRAHI, Sunil Kumar
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A01P 7/04	GORINS, Gilles	ARLT, Michael
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(73) Sumitomo Chemical Company, Limited	(72) WANG, Shaojie	SENKOVSKYY, Volodymyr
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(73) VIIV Healthcare UK (No.5) Limited	XUE, Qiufen	(51) C07D 413/04
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AS FARNESOID X RECEPTOR	GILMER, Tona	ZHANG, Shijun
MODULATORS	KASTAN, Michael	LI, Lingjun
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A61P 35/00	(ISOBUTYRYLOXY)ETHOXY)CARBONYL)AMIDE)C(=O)PHOSPHONIC ACID, (METHYL)PROPANOYL	AND ORGANIC LIGHT-EMITTING
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AND USE AS ANGIOGENESIS	(51) C07F 9/6574	JUN, Mieun
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C09J 7/38		PETERS, Fabian
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(54) PHOTSENSITIVE RESIN COMPOSITION, PHOTSENSITIVE RESIN COATING, PHOTSENSITIVE DRY FILM, AND BLACK MATRIX	(73) LANXESS Deutschland GmbH	MATTHEWS, William A.
(73) Shin-Etsu Chemical Co., Ltd.	(72) MEENENGA, Vincenza	MOORHOUSE, John H.
(72) MARUYAMA, Hitoshi	OPRISONI, Cristian	MURE, Cliff R.
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C08K 5/098	COURTEMANCHE, Marc-Andre	CAMERANO, Jose Antonio
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(73) Cytec Industries, Inc.	(54) PIGMENT DISPERSION, RESIST	Yu, Ya-Tin
(72) SANG, Junjie, Jeffrey	COMPOSITION FOR COLOR FILTERS	Huang, Yun-Shan
KOHLI, Dalip, K.	USING SAID PIGMENT DISPERSION,	Wei, Yeu-Kuen
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MURAKAMI, Fumiyasu	(54) POLYLACTIC RESIN COMPOSITIONS FOR PAPERBOARD COATING AND PAPERBOARD COATING PROCESSES USING THE COMPOSITIONS	EDUARD, Pieter
OKADA, Masato	(73) NatureWorks LLC	ZEEMAN, Ronnie
YOSHIHARA, Toshio	(72) KULSHRESTHA, Aman	(31) 201562273760 P
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C09D 11/03	(73) BASF Coatings GmbH	(51) C09G 1/02
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LOCCUFIER, Johan	(51) C09D 183/04	(31) 201916356669
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YOSHIDA, Masato	C08G 63/48	(72) MEIER, Thorsten
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PRODUCING SAME, AND PRESSURE-	KIM, Min Kyoun	(73) ConocoPhillips Company
SENSITIVE ADHESIVE FILM	CHO, Byung Kyu	University Of Kansas
(73) Mitsui Chemicals Tohcello, Inc.	LEE, Taek Yong	(72) LIN, Ying-Ying
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(73) Bostik SA	METHODS FOR THE PREPARATION	(21) EP15777771.5
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A61B 1/07	(11) EP3961828	COMBUSTION ENGINES IN A CYCLE
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(51) E05B 47/06 E05B 47/00 E05B 65/00 E05C 3/24	(22) 11.08.2020 (54) ADJUSTMENT MECHANISM FOR A MOTOR VEHICLE LOCK ASSEMBLY	(73) SOBINCO NV (72) VAN PARYS, Emmanuel Diederich Camille (31) 202005209 (32) 01.04.2020 (33) Belgium
(11) EP4008864 (21) EP21212181.8 (47) 11.10.2023 (22) 03.12.2021	(73) Brose Schließsysteme GbmH & Co. Kommanditgesellschaft (72) STRUTZ, Thorsten SCHNEIDER, Arne (31) 102019121898 (32) 14.08.2019	(31) 202005209 (32) 01.04.2020 (33) Belgium
(54) LOCKING DEVICE FOR A FRIDGE AND/OR FREEZER	(33) Germany	(51) E05C 19/18 E05C 17/46
(73) Liebherr-Hausgeräte Lienz GmbH (72) TIEFNIG, Roland (31) 102021102389 102020132475	(51) E05B 83/44 E05B 77/26 E05B 79/22 E05B 77/32 E05B 79/20 E05B 47/00	(11) EP3922794 (21) EP21169401.3 (47) 11.10.2023 (22) 20.04.2021 (54) APPARATUS FOR BARRICADING AN INWARDLY SWINGING DOOR TO PROVIDE PHYSICAL SECURITY
(32) 02.02.2021 07.12.2020	(11) EP4074930 (21) EP21193599.4 (47) 11.10.2023 (22) 27.08.2021	(73) Fischer, Gary (72) Fischer, Gary (31) 202063046832 P 202063038317 P (32) 01.07.2020 12.06.2020
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(51) E05B 77/06 (11) EP3998389 (21) EP21185975.6 (47) 11.10.2023 (22) 16.07.2021	(54) AUTOMOBILE DOOR LOCK AND AUTOMOBILE DOOR (73) Jiangsu Sanjo Intelligent Technology Co., Ltd. (72) XIAO, Heping (31) 202110388768 (32) 12.04.2021 (33) China	(51) E05D 15/26 E05D 15/46 (11) EP3401481 (21) EP18171010.4 (47) 11.10.2023 (22) 07.05.2018 (54) DEVICE FOR MOVING A FURNITURE PART WHICH IS HELD ON A FURNITURE BODY AND FURNITURE
(54) REVERSIBLE AND IRREVERSIBLE INERTIAL SAFETY LOCKING OPENING CONTROL DEVICE	(73) Akwel Vigo Spain SL (72) DIEZ ESTEVEZ, Alberto COUTO MAQUIEIRA, Delmiro Javier VAZQUEZ CARBALLO, José Oscar GARCIA RODRIGUEZ, Julio (31) 2008031 (32) 29.07.2020 (33) France	(31) 202063046832 P 202063038317 P (32) 01.07.2020 12.06.2020 (33) United States of America United States of America
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(51) E05B 77/34 E05B 81/06 E05B 81/42 E05B 81/54 E05B 85/02 E05B 85/24 B60J 5/00	(51) E05C 3/04 E05B 83/44 (11) EP3707328 (21) EP18839743.4 (47) 11.10.2023 (87) NL2018050755 16.05.2019 (22) 12.11.2018 (54) MOBILE ACCOMMODATION, FRAMED WINDOW AND CLOSURE (73) Polyplastic B.V. (72) ROUKEMA, Joris, Michel VEENEMAN, Jan, Peter (31) 2019882 (32) 10.11.2017	(51) E06B 1/60 E06B 5/11 (11) EP3502398 (21) EP18204201.0 (47) 11.10.2023 (22) 02.11.2018

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(73) Hörmann KG Eckelhausen (72) HELM, Stefan (31) 102018109418 102018103020 102017126671	(54) PROCESS OF MANUFACTURING A COMPRESSIBLE PILLAR FOR A VACUUM INSULATED GLAZING UNIT (73) VKR Holding A/S (72) ÖZDEN, Utku Ahmet KRISKO, Annette Johncock JOHNSEN, Simon (31) PA201870088 PA201870091 (32) 14.02.2018 14.02.2018	(11) EP2422086 (21) EP10767614.0 (47) 11.10.2023 (87) US2010031690 28.10.2010 (22) 20.04.2010 (54) COVERING FOR AN ARCHITECTURAL OPENING (73) Hunter Douglas Inc. (72) ANDERSON, Richard N. FISHER, Robert E., II FRASER, Donald E. HAARER, Stephen R.
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(54) METHODS OF DRAUGHTPROOFING AND REFURBISHING SASH WINDOWS	(11) EP3583286 (21) EP18706684.0 (47) 11.10.2023 (87) EP2018053549 23.08.2018 (22) 13.02.2018	(31) 427132 (32) 21.04.2009 (33) United States of America
(73) Collins Developments Limited (72) COLLINS, Liam (31) 201820680 (32) 19.12.2018 (33) United Kingdom	(47) 11.10.2023 (87) EP2018053549 23.08.2018 (22) 13.02.2018 (54) THERMAL TREATMENT OF PANE ELEMENTS FOR VACUUM INSULATING GLASS UNITS (73) VKR Holding A/S (72) SØNDERKÆR, Peter (31) PA201770110 (32) 17.02.2017 (33) Denmark	(51) E06B 9/54 (11) EP4063605 (21) EP21164566.8 (47) 11.10.2023 (22) 24.03.2021 (54) SCREEN DEVICE (73) Metaco Inc. (72) OKACHI, Yasubumi ISHII, Hiroaki
(51) E06B 3/58 E06B 3/66 (11) EP2870312 (21) EP13734269.7 (47) 11.10.2023 (87) US2013047227 09.01.2014 (22) 24.06.2013	(54) THERMAL TREATMENT OF PANE ELEMENTS FOR VACUUM INSULATING GLASS UNITS (73) VKR Holding A/S (72) SØNDERKÆR, Peter (31) PA201770110 (32) 17.02.2017 (33) Denmark	(51) E06B 9/54 (11) EP4063605 (21) EP21164566.8 (47) 11.10.2023 (22) 24.03.2021 (54) SCREEN DEVICE (73) Metaco Inc. (72) OKACHI, Yasubumi ISHII, Hiroaki
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(73) Guardian Glass, LLC (72) JONES, Jeffrey A. (31) 201213541840 (32) 05.07.2012 (33) United States of America	(54) RETRACTABLE ROOF/WALL ASSEMBLY (73) Advanced Design Innovations Pty Ltd (72) WHYTLAW, Michael (31) 2017904402 (32) 30.10.2017 (33) Australia	(51) E06C 7/18 E06C 5/36 E04G 21/32 E06C 1/12 E06C 7/14 E06C 7/42 E06C 7/44 E04G 5/00 (11) EP3797202 (21) EP19807307.4 (47) 11.10.2023 (87) AU2019050491 28.11.2019 (22) 21.05.2019 (54) FALL CONTROL LADDER (73) Branach Technology Pty Ltd (72) WALSH, Michael (31) 2018901797 (32) 22.05.2018 (33) Australia
(51) E06B 3/663 E06B 3/66 (11) EP3842611 (21) EP20194976.5 (47) 11.10.2023 (22) 07.02.2019	(51) E06B 9/15 E06B 9/56 (11) EP3088652 (21) EP16166537.7 (47) 11.10.2023 (22) 22.04.2016	(51) E21B 7/02 E21D 9/00 G01S 17/06 G01S 7/48 G01S 7/52 G01S 7/64 G05D 1/02 G01S 17/46 G01S 17/89 G05D 1/00 (11) EP3839197 (21) EP19218039.6 (47) 11.10.2023 (22) 19.12.2019
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(22) 17.07.2017	ACEVEDO, Isaiah	TUBING STRING INTO A WELLBORE
(54) A ROTARY VALVE WITH VALVE SEAT	COVALT, Johnny	(73) Grant Prideco, Inc.
ENGAGEMENT COMPENSATION	SOKOLOVE, Christopher, Brian	(72) Sørheim, Tore
(73) Halliburton Energy Services, Inc.	(31) 201662331555 P	Busengdal, Paul David
(72) CHAMBERS, Larry	(32) 04.05.2016	(51) E21B 43/26
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(22) 23.04.2019	DEPLOYING CABLE IN A BOREHOLE	(73) Baker Hughes Holdings LLC
(54) DOWNHOLE MOTOR STALL	(73) Well-Sense Technology Limited	(72) HOLLAND, Mark
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(47) 11.10.2023	(72) ANDUEZA, Alejandro	(73) Metrol Technology Limited
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ROTARY DRILL TOOL	(33) Brazil	(31) 201609291
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SUPPLYING LIQUID TO A LINER	(22) 21.06.2018	15.08.2019
(73) Smarthose AS	(54) PLUG ACTIVATED MECHANICAL	(22) 17.12.2018
(72) HOPE, Helge	ISOLATION DEVICE, SYSTEMS AND	(54) WELLBORE INSPECTION SYSTEM
BREIVIK, Alf	METHODS FOR CONTROLLING	(73) HALLIBURTON ENERGY SERVICES,
(51) E21B 23/06	FLUID FLOW INSIDE A TUBULAR IN A	INC.
E21B 43/1185	WELLBORE	(72) JACK, Graham P.
F42D 1/045	(73) Drilling Innovative Solutions, LLC	(31) 201862628206 P
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G01C 21/34	(73) Cummins Ltd	(73) MTU Aero Engines AG
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(22) 30.11.2018	WILSON, Jonathan	Ostermeir, Oskar
(54) MODEL GENERATION FOR ROUTE PLANNING OR POSITIONING OF MOBILE OBJECT IN UNDERGROUND WORKSITE	CURTIS, Lee	(31) 102018209610
(73) Sandvik Mining and Construction Oy	PATEL, Fahim Ismail	(32) 14.06.2018
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von ESSEN, Tomi	PURDEY, Matthew J	(51) F01D 5/14
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(47) 11.10.2023	ROBERTS, Thomas	(47) 11.10.2023
(22) 14.05.2020	SANDFORD, George E.	(22) 04.11.2020
(54) A TENSION INDICATOR FOR A ROCK BOLT	CADDY, Stephen	(54) CERAMIC AIRFOIL WITH COOLING AIR TURN
(73) Sandvik Mining and Construction Tools AB	HULSON, Thomas	(73) Raytheon Technologies Corporation
Sandvik Mining and Construction	LEE, Dave	(72) GENERALE, Adam P.
Australia Pty Ltd	SELWAY, Martin	DVOROZNIAK, Lucas
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(73) Siemens Gamesa Renewable Energy A/S	(11) EP3899274	MILHAU, Pierre
(72) CHANDRASEKHAR, Kartik	(21) EP19817816.2	(31) 1859701
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	(73) ATLAS COPCO AIRPOWER, naamloze vennootschap	C10M 171/00
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		F04C 29/00

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C10N 20/00	(54) ROTOR PAIR FOR A COMPRESSOR	YOKOYAMA, Tomomi
C10N 30/06	BLOCK OF A SCREW MACHINE	WADA, Ryouzuke
C10N 30/10	(73) Kaeser Kompressoren SE	TAKAO, Hidenobu
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(33) Japan	ZHANG, Cheng	(73) Zhejiang Sanhua Automotive
(51) F04B 49/06	GUO, Hong	Components Co., Ltd.
F04D 27/00	ZHOU, Xingbiao	(72) Niu, Lianjing
F24F 11/88	ZHONG, Liang	Zhang, Rongrong
F25B 49/02	YAN, Lili	Bao, Junfeng
H02P 5/68	WANG, Ling	Zhang, Junchao
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(22) 27.05.2019	China	(33) China
(54) ELECTRIC CONTROL ASSEMBLY AND	(51) F04C 23/00	China
AIR CONDITIONER	F04C 29/00	(51) F04D 7/04
(73) GD Midea Air-Conditioning Equipment	(11) EP3163083	F04D 29/42
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(32) 18.01.2019	THERMAL SYSTEMS, LTD.	CONVEYING FLUIDS CONTAINING
(33) China	(72) OGAWA, Makoto	SOLIDS
(51) F04C 2/10	MIURA, Shigeki	(73) KSB SE & Co. KGaA
F04C 2/08	SATO, Hajime	(72) PITTROFF, Markus
F04C 15/06	ESAKI, Ikuo	(31) 102020003854
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(47) 11.10.2023	MIZUNO, Hisao	(51) F04D 17/10
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METHOD	(33) Japan	(87) EP2019071445
(73) HNP Mikrosysteme GmbH	(51) F04C 29/12	26.03.2020
(72) REIMANN, Sven	F04C 18/02	(22) 09.08.2019
VOEGELE, Gerald	F04C 29/02	(54) COMPRESSOR
WEISENER, Thomas	F04C 23/00	(73) Robert Bosch GmbH

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(51) F04D 29/08 F01D 9/04 F01D 25/24 F04D 29/54 F04D 29/64 F01D 11/00	(51) F15B 11/02 E02F 9/20 E02F 9/22 F15B 11/028 F15B 11/08 F15B 11/17 E02F 9/26	(72) YE, Guangping WANG, Guangya QIAN, Xiaobin WU, Jian ZHANG, Lejin ZHAN, Feng WANG, Zhiyuan GU, Zhongjun XU, Hong TANG, Yinbo FANG, Changde WU, Sheng XUE, Feng QIANG, Zhigang
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(73) Pratt & Whitney Canada Corp. (72) URAC, Tibor BARNETT, Barry	(54) CONSTRUCTION MACHINE WITH OPEN AND CLOSED HYDRAULIC CIRCUITS	(51) F16B 3/06 G03B 17/56 F16B 1/00
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(73) J.C. Bamford Excavators Limited (72) Pavey, Stephen Parry-Jones, Ian	(73) Robert Bosch GmbH (72) Oschmann, Sebastian Szeles, Botond	(31) 201715628609 (32) 20.06.2017 (33) United States of America
(31) 201915123 (32) 18.10.2019 (33) United Kingdom	(31) 102019208086 (32) 04.06.2019 (33) Germany	(51) F16B 13/06 (11) EP4039990 (21) EP22154400.0 (47) 11.10.2023 (22) 01.02.2022
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(73) Raytheon Technologies Corporation (72) MALMBORG, Eric W. POLLACK, Thomas A.	(73) Volvo Construction Equipment AB (72) VIGHOLM, Bo HALLMAN, Johan	(51) F16B 19/10 (11) EP4038286 (21) EP20786515.5 (47) 11.10.2023 (87) EP2020077603 08.04.2021 (22) 01.10.2020 (54) SMALL FASTENER (73) Kwikbolt Limited (72) NIKLEWICZ, Jan
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(51) F04D 29/58 F04D 19/00 A01G 20/47 F04D 29/54 F04D 25/08	(11) EP3643930 (21) EP18819695.0 (47) 11.10.2023 (87) CN2018092089 27.12.2018	
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(32) 01.10.2019	(72) ISHIKAWA Takanori	(73) Liebherr-Components Biberach GmbH
(33) United Kingdom	KAWAI Takashi	(72) PALMER, Andreas
(51) F16B 37/08	ISOBE Nozomi	ZELL, Robert
(11) EP3690263	(31) 2019048738	RUF, Markus
(21) EP20153617.4	(32) 15.03.2019	FUCHS, Michael
(47) 11.10.2023	(33) Japan	(31) 202019101697 U
(22) 24.01.2020	(51) F16C 19/06	(32) 26.03.2019
(54) SERVICEABLE STUD-TO-TIE STRAP FASTENER	F16C 43/08	(33) Germany
(73) Illinois Tool Works, Inc.	(11) EP3969768	(51) F16C 23/08
(72) LEPPER, Mark O.	(21) EP20716385.8	F03D 80/70
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29.01.2019	JOSHI, Viraj	(54) DOUBLE-ROW SELF-ALIGNING ROLLER BEARING
(33) United States of America	VINDULA, R Naga Bhushanam	(73) NTN Corporation
United States of America	SHAH, Harish	(72) SEKO, Kazumasa
United States of America	(31) 102019112852	HORI, Michio
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(51) F16B 39/10	(33) Germany	YAMAMOTO, Takashi
B60B 3/00	(51) F16C 19/16	NAKANISHI, Masaki
B60B 23/10	F16C 33/66	(31) 2019072707
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(54) TIE BOLT RETENTION	(22) 15.12.2020	(51) F16C 29/12
(73) Goodrich Corporation	(54) THREE-POINT CONTACT ROLLING BEARING WITH IMPROVED DRAIN	F16C 29/02
(72) SUMMERS, Herbert S.	(73) Safran Helicopter Engines	(11) EP3830437
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United States of America	(51) F16C 19/38	(73) Igs GmbH
(51) F16C 17/04	F16C 33/78	(72) MOSHAMMER, Horst
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(47) 11.10.2023	(22) 09.11.2020	G01B 7/14
(22) 16.12.2021	(54) ROLLER BEARING ARRANGEMENT	G01B 21/16
(54) AIR FOIL THRUST BEARING	(73) Aktiebolaget SKF	H02K 7/09
(73) Neuros Co., Ltd.	(72) Kroeger, Jan	F04D 29/048
(72) CHOI, Ho-Jin	Lemper, Peter	F04D 29/058
(31) 20210041644	Liesegang, Hans-Jürgen	F04D 17/10
(32) 31.03.2021	Schulz, Klaus-Dieter	F04D 25/06
(33) Korea (Republic)	(31) 102019217381	F04D 29/051
(51) F16C 19/06	(32) 11.11.2019	G01B 21/04
F16C 19/36	(33) Germany	H02K 7/14
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(21) EP18815475.1	(22) 21.12.2021	(72) MÜLLER, Georg
(47) 11.10.2023	(54) COUPLING STRUCTURE AND MODULARIZED COAXIAL GEAR TRAIN REDUCTION MECHANISM USING SAME	(72) WEGMANN, Enrique
(87) US2018062033	(73) Yao, Li-Ho	(31) 102019107915
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(22) 20.11.2018	Lien, Norman	(33) Germany
(54) BEARING AND/OR SEAL ASSEMBLY INCLUDING PERMEABLE BODY WITH FEATURES ENGINEERED TO FORM A DESIRED DISTRIBUTION PATTERN FOR A PRESSURIZED GAS CONVEYED THERETHROUGH	Hsieh, Pei-Sheng	(51) F16F 1/362
(73) Siemens Energy, Inc.	Tien, Chi-Chen	F16F 1/38
(72) MOHR, Byron L.	Hsieh, Pi-Jen	F16F 1/393
BARNES, Tristen	(31) 109145752	(11) EP3855042
KUZDZAL, Mark J.	(32) 23.12.2020	(21) EP20020040.0
GUERRA, Christopher	(33) Taiwan, Chinese Taipei	(47) 11.10.2023
MILLER, Harry Francis	(51) F16D 57/02	(22) 27.01.2020
	B05B 3/00	(54) ELASTIC METAL BEARING
(51) F16C 41/00	(11) EP3385562	(73) Hutchinson Stop-Choc GmbH & Co.KG
G01B 7/14	(21) EP17205516.2	(72) Chadderton, Timothy
F16C 32/04	(47) 11.10.2023	Chrestels, Jörg
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G01D 3/02	(54) VISCOUS ROTATIONAL SPEED CONTROL DEVICE	Spillner, Axel
H02N 15/00	(73) Nelson Irrigation Corporation	(51) F16F 9/49
(11) EP3913247	(72) SESSER, George L.	F16F 9/06
(21) EP19917275.0	PERKINS, Lee A.	F16F 9/092
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(22) 31.10.2019	201514789415	(47) 11.10.2023
(54) MAGNETIC LEVITATION BEARING SYSTEM WITH DISPLACEMENT CORRECTION APPARATUS, AND DISPLACEMENT CORRECTION METHOD THEREFOR	201514699445	(22) 13.07.2018
(73) Gree Electric Appliances, Inc. of Zhuhai	201562103168 P	(54) POSITION-DEPENDENT SHOCK ABSORBER
(72) GUO, Weilin	(32) 31.12.2015	(73) Öhlins Racing AB
ZHAO, Cong	01.07.2015	(72) Sintorn, Torkel
HE, Yongling	29.04.2015	(51) F16F 13/10
HU, Daofu	14.01.2015	(11) EP3620682
LI, Xue	(33) United States of America	(21) EP19194243.2
SUN, Jiandong	United States of America	(47) 11.10.2023
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(33) China	United States of America	(73) BeijingWest Industries Co. Ltd.
(51) F16C 43/02	(51) F16D 65/00	(72) ZEHNDER II, James William
F16C 33/10	(11) EP4048915	HAERR, Timothy Allen
C10M 125/02	(21) EP20797069.0	(31) 201910602338
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(47) 11.10.2023	29.04.2021	10.09.2018
(22) 09.07.2021	(22) 21.10.2020	(33) China
(54) AUTOMOTIVE SLIDE MEMBER	(54) BRAKE DUST PARTICLE FILTER ARRANGEMENT, DISC BRAKE ARRANGEMENT WITH SAID FILTER ARRANGEMENT, VEHICLE WITH SAID DISC BRAKE ARRANGEMENT	United States of America
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	(73) MANN+HUMMEL GmbH	(51) F16F 15/134
Kyodo Yushi Co., Ltd.	(72) BOCK, Lukas	F16F 15/14
(72) SUDO, Junichi	JESSBERGER, Thomas	F16F 15/123
KANEHARA, Youji	KÜMMERLING, Volker	(11) EP4025805
YAMADA, Koushi	EVLEKLI, Coskun	(21) EP20774870.8
SAKURAI, Kenichiro	CORBA, Jan	(47) 11.10.2023
TANIMURA, Ko	WELLER, Benedikt	(87) DE2020100700
KOMORIYA, Tomonobu	(31) 102019128470	11.03.2021
(31) 2020123867	(32) 22.10.2019	(22) 13.08.2020
(32) 20.07.2020	(33) Germany	(54) TORSIONAL VIBRATION DAMPER HAVING A CENTRIFUGAL PENDULUM ABSORBER AND PRE-DAMPER
(33) Japan	(51) F16D 69/02	(73) Schaeffler Technologies AG & Co. KG
	(11) EP3715666	(72) STRASSER, Pascal
		BAHRMANN, Christian
		(31) 102019123427

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(33) Germany	OF AGRICULTURAL WORKING	(54) TORQUE CONVERTER
(51) F16G 1/10	AUTOMOBILE	(73) Exedy Corporation
F16G 5/08	(73) LS Mtron Ltd.	(72) MATSUOKA, Yoshihiro
C08L 23/30	(72) CHOI, Kyu Beom	(31) 2019043499
B29C 41/28	(31) 20160041428	(32) 11.03.2019
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(47) 11.10.2023	(33) Korea (Republic)	F16H 61/444
(87) EP2019057506	Korea (Republic)	B60K 17/00
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LAYER TREATED WITH PARTLY	(21) EP20750729.4	(22) 25.08.2020
OXIDIZED POLYETHYLENE	(47) 11.10.2023	(54) SHIFTING STRATEGY FOR TRACTION
(73) ContiTech Antriebssysteme GmbH	(87) IB2020056421	DRIVE WITH COMPOUNDING
(72) KANZOW, Henning	14.01.2021	GEARBOX
KAUTZ, Stephanie	(22) 08.07.2020	(73) Robert Bosch GmbH
GREINER, Christian	(54) TENSIONER FOR AN ACCESSORY	(72) Fassbender, David
TEVES, Reinhard	TRANSMISSION OF AN INTERNAL	Xiang, Yusheng
(31) 102018206484	COMBUSTION ENGINE	(31) 102019213473
(32) 26.04.2018	(73) Dayco Europe S.R.L.	(32) 05.09.2019
(33) Germany	(72) RONCHETTO, Roberto	(33) Germany
(51) F16G 3/04	OSELLA, Gianluca	(51) F16H 48/24
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B64F 1/36	(32) 08.07.2019	F16H 48/32
B65G 15/34	(33) Italy	(11) EP3748200
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(72) BOJJANAPALLI, Muralidhar Rao	Mullarkey, Seamus	(72) JAUFFRET, Laurent
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AND ANOMALY DETERMINATION	(73) COMMISSARIAT À L'ÉNERGIE	INTEREST IN A SAMPLE
METHOD	ATOMIQUE ET AUX ÉNERGIES	(73) Smiths Detection Inc.
(73) NISSAN MOTOR Co., Ltd.	ALTERNATIVES	(72) TROY, Jerome
(72) TANAKA, Yasuhiro	(72) MONPEURT, Cyrielle	EDWARDS, John W.
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(51) G01N 21/3563	TEST PAD ON A TEST STRIP	(73) Pirelli Tyre S.p.A.
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G01N 21/41	(72) ZHOU, Jindan	HELD, Alessandro
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OBJECT	G06N 3/02	(22) 30.11.2016
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(73) ArianeGroup SAS	(73) JACOBE DE NAUROIS, Guy-Maël	HARUSE, Yuta
(72) JACOBE DE NAUROIS, Guy-Maël	PARRAIN, David	SUGIMOTO, Shintaro
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(22) 21.10.2013	(47) 11.10.2023	COMPOSITE DIFFRACTION OPTICAL
(54) APPARATUS FOR DETECTING	(87) US2019058538	ELEMENTS, AND COMPOSITE
FERROMAGNETIC OBJECTS AT A	07.05.2020	DIFFRACTION OPTICAL ELEMENT
PROTECTED DOORWAY ASSEMBLY	(22) 29.10.2019	USING SAME
(73) Metrasens Limited	(54) PROGRESSIVE ASPHERIC	(73) Mitsubishi Gas Chemical Company, Inc.
(72) KEENE, Mark Nicholas	CORRECTION FOR ELECTRICALLY	(72) NAMIKI Kousuke
HORTON, Thomas John	TUNABLE LENS OPTICAL PATH	KOSHIISHI Eiji
(31) 201219097	(73) Fluorescence Microscopy Business	FURUKAWA Kikuo
(32) 24.10.2012	Unit (FMBU) of Bruker Nano Surfaces	HORIKOSHI Hiroshi
(33) United Kingdom	Division	(31) 2016079016
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(33) United States of America	(54) DIFFUSION PLATE	SOLAR PHOTOVOLTAIC POWER
(51) G02B 1/115	(73) Kuraray Co., Ltd.	GENERATION SYSTEM
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(47) 11.10.2023	(31) 2018029694	IZU, Yasuyuki
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(22) 09.09.2019	(51) G02B 5/08	CHOU, Kinryou
(54) OPTICAL ELEMENT WITH A STACK OF	G02B 5/26	NAKAJIMA, Daisuke
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(33) Germany	(54) SUBSTRATE EQUIPPED WITH A	(47) 11.10.2023
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(47) 11.10.2023	(73) SAINT-GOBAIN GLASS FRANCE	USING STRUCTURALLY-COLORED
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United States of America	(11) EP3158373	THEUERKORN, Thomas
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(54) METHOD FOR ASSESSING BALANCE	(33) United States of America	26.01.2018
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(72) BERGMAN, Ian	G02B 6/38	United States of America
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(31) 201762525882 P	KAWAI, Toshimitsu	<hr/>
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(73) Canon Kabushiki Kaisha	(21) EP20703144.4	(73) Robert Bosch GmbH
(72) HONGU, Hideyasu	(47) 11.10.2023	(72) SCHARY, Timo
YOKOZEKI, Makoto	(87) EP2020050727	BOESSENDOERFER, Ralf
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KATO, Atsushi	(22) 13.01.2020	MIHALJEVIC, Josip
(31) 2019153207	(54) OPHTHALMOLOGIC MICROSCOPE WITH MICRO-MIRROR BALANCING	MUCHOW, Joerg
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2019153208	(72) TRITTIBACH, Caspar	RIEDRICH-MOELLER, Janine
(32) 23.08.2019	ZUMKEHR, Frank	EBERSPAECHER, Alexander
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(22) 30.01.2019	H04N 13/383	(73) Kyocera Corporation
(54) SAMPLE OBSERVATION DEVICE AND SAMPLE OBSERVATION METHOD	G06F 3/01	(72) KUSAFUKA, Kaoru
(73) HAMAMATSU PHOTONICS K.K.	H04N 13/344	(31) 2018149305
(72) YAMAMOTO, Satoshi	H04N 23/54	(32) 08.08.2018
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(72) OLKKONEN, Juuso	(11) EP3770670	(21) EP20191193.0
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(33) Finland	26.09.2019	(73) Samsung Electronics Co., Ltd.
(51) G02B 27/01	(22) 05.03.2019	(72) KWON, Yong-Hun
G02B 5/30	(54) DISPLAY DEVICE	LEE, Youngchol
G03B 21/14	(73) Sony Semiconductor Solutions	LEE, Keunbum
G03B 21/16	Corporation	LEE, Seungjae
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(73) Google LLC	COUPLING A MACHINE WITH A	RYVCHIN, Galina	RYVCHIN, Galina
(72) AGGARWAL, Vikram	PLURALITY OF APPLICATIONS	MAJCHER, Piotr	MAJCHER, Piotr
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G01C 21/36	H04W 4/40	GRADSTEIN, Amit	GRADSTEIN, Amit
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(73) The Regents of the University of	H01H 9/30	(73) Gyrus ACMI, Inc., d.b.a. Olympus
California	(11) EP3577671	Surgical Technologies America
(72) KANER, Richard B.	(21) EP18748173.4	(72) CHENG, Ming, J.
HWANG, Jee Youn	(47) 11.10.2023	CHURCH, David, C.
LI, Mengping	(87) AU2018000012	GREEN, Joseph
EL-KADY, Maher F.	09.08.2018	SANE, Moussa
(31) 201662438377 P	(22) 05.02.2018	(51) H01H 13/52
(32) 22.12.2016	(54) SWITCHING MECHANISM	H03K 17/96
(33) United States of America	MOUNTABLE ON PRINTED CIRCUIT	(11) EP3739611
(51) H01G 11/32	BOARD	(21) EP19174154.5
A61N 1/05	(73) Kezza Products PTY Limited	(47) 11.10.2023
B82Y 30/00	Core Supply Group B.V.	(22) 13.05.2019
B82Y 40/00	(72) BUNTING, William Paul	(54) CONTROL DEVICE FOR
C01B 32/182	(31) 2017900337	CONTROLLING AT LEAST ONE
C01B 32/00	(32) 03.02.2017	TOUCH DEVICE FOR DOMESTIC
H01G 11/68	(33) Australia	INSTALLATION
H01G 11/66	(51) H01H 9/54	(73) Lunatone Industrielle Elektronik GmbH
H01G 11/36	H01H 71/10	(72) Mair, Alexander
B82Y 5/00	(11) EP3855465	(51) H01H 33/664
B82Y 15/00	(21) EP20207521.4	H01H 79/00
(11) EP3884507	(47) 11.10.2023	H01J 21/08
(21) EP19887776.3	(22) 16.03.2015	H01T 2/00
(47) 11.10.2023	(54) DISCONNECTOR FOR DC	H01T 21/06
(87) US2019062663	INTERRUPTION	H02H 9/06
28.05.2020	(73) Ellenberger & Poensgen GmbH	(11) EP3561846

(21) EP18169856.4	(11) EP3109888	(87) FR2019050539
(47) 11.10.2023	(21) EP16181651.7	03.10.2019
(22) 27.04.2018	(47) 11.10.2023	(22) 13.03.2019
(54) VACUUM CIRCUIT BREAKER	(22) 12.03.2014	(54) SUBSTRATE FOR RADIOFREQUENCY
(73) Siemens Energy Global GmbH & Co. KG	(54) ROTARY X-RAY EMISSION TARGET	APPLICATIONS AND ASSOCIATED
(72) Schacherer, Christian	AND X-RAY GUN	MANUFACTURING METHOD
Rettenmaier, Thomas	(73) Nikon Metrology NV	(73) SOITEC
Wenzel, Norbert	(72) Hadland, Roger	(72) ALLIBERT, Frédéric
(51) H01H 50/02	(31) 201304870	VEYTIZOU, Christelle
H01H 50/04	201361787930 P	RADISSON, Damien
H01H 51/22	(32) 15.03.2013	(31) 1852795
H01H 89/06	15.03.2013	(32) 30.03.2018
(11) EP3549149	(33) United Kingdom	(33) France
(21) EP17817151.8	United States of America	(51) H01L 21/761
(47) 11.10.2023	(51) H01J 37/32	H01L 21/74
(87) IB2017057448	H03H 7/38	H01L 21/225
07.06.2018	H03H 7/40	H01L 21/763
(22) 28.11.2017	(11) EP3850655	H01L 27/06
(54) CONTACTOR WITH COIL POLARITY	(21) EP19858649.7	H01L 29/06
REVERSING CONTROL CIRCUIT	(47) 11.10.2023	H01L 29/861
(73) TE Connectivity Solutions GmbH	(87) US2019049554	(11) EP3475974
(72) GORENFLO, Richard Raymond	22.05.2020	(21) EP17815900.0
GAST, Richard Andrew	(22) 04.09.2019	(47) 11.10.2023
(31) 201615365020	(54) VARIABLE CAPACITOR BANK	(87) US2017034644
(32) 30.11.2016	(73) AES Global Holdings, Pte. Ltd.	28.12.2017
(33) United States of America	(72) CRANDELL, Courtney L.	(22) 26.05.2017
(51) H01H 71/12	(31) 201816126955	(54) SEMICONDUCTOR DEVICE HAVING
H01H 57/00	(32) 10.09.2018	SIDE-DIFFUSED TRENCH PLUG AND
H01H 33/666	(33) United States of America	ASSOCIATED METHOD
(11) EP3662498	(51) H01J 49/02	(73) Littelfuse, Inc.
(21) EP18758814.0	H01J 43/24	(72) SHEN, Ader
(47) 11.10.2023	(11) EP3257067	CHANG, Ting-Fung
(87) EP2018070726	(21) EP16748795.8	LU, James
07.02.2019	(47) 11.10.2023	LIN, Wayne
(22) 31.07.2018	(87) IB2016050482	(31) 201615190469
(54) HYBRID SWITCHING DEVICE AND	18.08.2016	(32) 23.06.2016
HYBRID ACTUATOR INCORPORATING	(22) 29.01.2016	(33) United States of America
SAME	(54) DEVICE FOR IMPROVED DETECTION	(51) H01L 21/768
(73) Camlin Technologies Limited	OF IONS IN MASS SPECTROMETRY	H01L 23/522
(72) MUIR, Mark	(73) DH Technologies Development Pte. Ltd.	H01L 23/532
(31) 201712296	(72) COLLINGS, Bruce Andrew	H01L 21/288
(32) 31.07.2017	MARTIN, Pascal	(11) EP2356674
(33) United Kingdom	LOCKE, Stephen Bruce	(21) EP09832386.8
(51) H01H 73/18	(31) 201562116354 P	(47) 11.10.2023
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(21) EP18904243.5	(11) EP3939073	(54) DUAL METAL INTERCONNECTS
(47) 11.10.2023	(21) EP20713950.2	(73) Tahoe Research, Ltd.
(87) JP2018029414	(47) 11.10.2023	(72) O'BRIEN, Kevin, P.
08.08.2019	(87) FR2020050371	AKOLKAR, Rohan, N.
(22) 06.08.2018	24.09.2020	INDUKURI, Tejaswi
(54) CIRCUIT BREAKER AND CIRCUIT	(22) 26.02.2020	FAJARDO, Arnel M.
BREAKING METHOD	(54) HOLDING DEVICE FOR AN ASSEMBLY	(31) 316304
(73) Mitsubishi Electric Corporation	THAT IS TO BE FRACTURED	(32) 10.12.2008
(72) MATSUMURA, Kohei	(73) SOITEC	(33) United States of America
SAGARA, Yuta	(72) LANDRU, Didier	(51) H01L 23/373
(31) 2018016138	KONONCHUK, Oleg	C08J 5/18
(32) 01.02.2018	BEN MOHAMED, Nadia	C08K 3/10
(33) Japan	(31) 1902681	C08K 7/06
(51) H01J 35/10	(32) 15.03.2019	C08L 83/04
H01J 35/02	(33) France	C08L 101/00
H01J 35/04	(51) H01L 21/76	H01L 23/36
H01J 35/06	H01L 21/02	C08J 5/04
H05G 1/12	H01L 21/762	C08K 3/22
H02M 7/10	(11) EP3776640	C08K 3/28
H01J 29/48	(21) EP19715973.4	C08K 7/18
H02M 1/32	(47) 11.10.2023	(11) EP3790044

(21) EP20203274.4	(73) Heptagon Micro Optics Pte. Ltd.	H01L 29/423
(47) 11.10.2023	(72) RUDMANN, Hartmut	H01L 29/06
(22) 05.07.2013	MALUCK, Matthias	H01L 21/336
(54) HEAT CONDUCTIVE SHEET	BIETSCH, Alexander	H01L 29/20
(73) Dexerials Corporation	ROENTGEN, Peter	H01L 29/417
(72) ARAMAKI, Keisuke	HEIMGARTNER, Stephan	H01L 29/80
ISHII, Takuhiro	(31) 201161527355 P	H01L 29/10
(31) 2012153147	(32) 25.08.2011	(11) EP3405979
(32) 07.07.2012	(33) United States of America	(21) EP17702170.6
(33) Japan	(51) H01L 27/15	(47) 11.10.2023
(51) H01L 27/02	H01L 33/12	(87) JP2017001014
H02H 9/04	(11) EP3895216	27.07.2017
(11) EP3693994	(21) EP19839351.4	(22) 13.01.2017
(21) EP20153476.5	(47) 11.10.2023	(54) SEMICONDUCTOR DEVICE,
(47) 11.10.2023	(87) FR2019052904	ELECTRONIC PART, ELECTRONIC
(22) 23.01.2020	18.06.2020	APPARATUS, AND METHOD FOR
(54) CIRCUIT FOR CONTROLLING A	(22) 03.12.2019	FABRICATING SEMICONDUCTOR
STACKED SNAPBACK CLAMP	(54) OPTOELECTRONIC DEVICE	DEVICE
(73) NXP USA, Inc.	COMPRISES PIXELS EMITTING	(73) Sony Group Corporation
(72) Stockinger, Michael A.	THREE COLOURS	(72) TAKEUCHI, Katsuhiko
(31) 201916267999	(73) Aledia	KANEMATSU, Shigeru
(32) 05.02.2019	(72) ROBIN, Ivan-Christophe	YANAGITA, Masashi
(33) United States of America	(31) 1872710	(31) 2016009797
(51) H01L 27/12	(32) 11.12.2018	(32) 21.01.2016
H01L 21/77	(33) France	(33) Japan
(11) EP3459116	(51) H01L 27/15	(51) H01L 31/0468
(21) EP17779990.5	H01L 33/38	H01L 31/18
(47) 11.10.2023	(11) EP3731277	H10K 30/57
(87) CN2017081874	(21) EP19191010.8	(11) EP4078687
23.11.2017	(47) 11.10.2023	(21) EP20830375.0
(22) 25.04.2017	(22) 09.08.2019	(47) 11.10.2023
(54) PIXEL UNIT, ARRAY SUBSTRATE, AND	(54) LIGHT EMITTING DEVICE	(87) NL2020050809
DISPLAY DEVICE, AND FABRICATION	(73) Seoul Viosys Co., Ltd	24.06.2021
METHODS THEREOF	(72) OH, Se Hee	(22) 18.12.2020
(73) BOE Technology Group Co., Ltd.	KANG, Min Woo	(54) TRANSLUCENT PHOTOVOLTAIC
(72) WANG, Zuqiang	KIM, Jong Kyu	PRODUCT, METHOD AND APPARATUS
(31) 201610323593	KIM, Hyun A	FOR MANUFACTURING THE SAME
(32) 16.05.2016	(31) 20180093387	(73) Nederlandse Organisatie voor toegepast-
(33) China	20190085111	natuurwetenschappelijk Onderzoek TNO
(51) H01L 27/146	(32) 09.08.2018	(72) UNNIKRISHNAN, Sandeep
(11) EP2230691	15.07.2019	GALAGAN, Yulia
(21) EP10156350.0	(33) Korea (Republic)	FLEDDERUS, Henri
(47) 11.10.2023	Korea (Republic)	ANDRIESSEN, Hieronymus Antonius
(22) 12.03.2010	(51) H01L 29/78	Josephus Maria
(54) METHOD OF MANUFACTURING A	H01L 21/336	LIFKA, Herbert
SEMICONDUCTOR DEVICE	H01L 29/08	(31) 19218018
(73) Sony Group Corporation	H01L 29/739	(32) 19.12.2019
(72) Umebayashi, Taku	H01L 29/872	(33) European Patent Office (EPO)
Takahashi, Hiroshi	H01L 21/761	(51) H01L 31/05
Shohji, Reijiroh	H01L 29/06	H01L 31/0224
(31) 2010012586	H01L 29/16	H01L 31/18
2009068582	(11) EP3465763	C25D 1/04
(32) 22.01.2010	(21) EP17721292.5	C25D 1/08
19.03.2009	(47) 11.10.2023	(11) EP3475986
(33) Japan	(87) US2017029066	(21) EP17815936.4
Japan	30.11.2017	(47) 11.10.2023
(51) H01L 27/146	(22) 24.04.2017	(87) US2017036963
B23K 26/361	(54) METHOD OF MAKING A	28.12.2017
(11) EP2748853	SEMICONDUCTOR DEVICE	(22) 12.06.2017
(21) EP12768695.4	(73) General Electric Company	(54) CELL-TO-CELL INTERCONNECT
(47) 11.10.2023	(72) LOSEE, Peter Almern	(73) Merlin Solar Technologies, Inc.
(87) CH2012000200	SUI, Yang	(72) MURALI, Venkatesan
28.02.2013	BOLOTNIKOV, Alexander Viktorovich	CHILD, Kent Riley
(22) 24.08.2012	(31) 201615164928	RUDIN, Arthur
(54) WAFER-LEVEL FABRICATION OF	(32) 26.05.2016	BRAILOVE, Adam
OPTICAL DEVICES. IN PARTICULAR	(33) United States of America	CHARI, Arvind
OF MODULES FOR COMPUTATIONAL	(51) H01L 29/78	(31) 201615192576
CAMERAS	H01L 29/778	(32) 24.06.2016

(33) United States of America	(21) EP20214828.4	H01M 10/052
(51) H01L 31/0747	(47) 11.10.2023	H01M 10/0567
H01L 31/0236	(22) 17.12.2020	H01M 50/431
H01L 31/18	(54) ELECTRODE MATERIAL FOR THE	H01M 50/443
H01L 31/20	PRINTING OF POLYMER BATTERIES	H01M 50/451
(11) EP3648180	(73) InnovationLab GmbH	H01M 50/457
(21) EP18822925.6	(72) BAKUMOV, Vadym	H01M 4/131
(47) 11.10.2023	WILD, Andreas	H01M 50/417
(87) JP2018024009	COCHET, Sébastien	H01M 50/423
03.01.2019	HÄHNEL, Lina	H01M 50/489
(22) 25.06.2018	(51) H01M 4/13	(11) EP3937278
(54) METHOD FOR MANUFACTURING	C03C 3/072	(21) EP20770518.7
PHOTOELECTRIC CONVERSION	C01B 35/12	(47) 11.10.2023
DEVICE	C23C 14/08	(87) JP2020009335
(73) Kaneka Corporation	H01M 10/052	17.09.2020
(72) ADACHI, Daisuke	H01M 4/62	(22) 05.03.2020
(31) 2017126782	H01M 4/139	(54) BATTERY
(32) 28.06.2017	C03C 3/064	(73) AESC Japan Ltd.
(33) Japan	C03C 4/14	(72) YANAGISAWA, Ryota
(51) H01L 33/48	C23C 14/10	YAMAMOTO, Yoshimasa
H01L 33/58	C23C 14/24	(31) 2019042200
H01L 33/00	(11) EP4070395	(32) 08.03.2019
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(47) 11.10.2023	(87) GB2020053075	H01M 4/36
(87) KR2019007000	10.06.2021	H01M 10/0525
19.12.2019	(22) 01.12.2020	H01M 10/0565
(22) 11.06.2019	(54) METHOD	H01M 10/0569
(54) LIGHT EMITTING DIODE PACKAGE	(73) Ilika Technologies Limited	(11) EP3439096
AND LIGHT IRRADIATING APPARATUS	(72) ANASTASOPOULOS, Alexandros	(21) EP16897207.3
INCLUDING LIGHT EMITTING DIODE	HAYDEN, Brian Elliott	(47) 11.10.2023
PACKAGE	LEE, Christopher	(87) KR2016013063
(73) Seoul Viosys Co., Ltd	LAUGHMAN, David	05.10.2017
(72) BILENKO, Yuriy	SMITH, Duncan	(22) 14.11.2016
PARK, Ki Yon	ARESTA, Gianfranco	(54) COMPOSITE ELECTROLYTE FOR
(31) 20180066557	TURNER, Louise	SECONDARY BATTERY, HAVING
(32) 11.06.2018	GUERIN, Samuel	MULTI-LAYER STRUCTURE
(33) Korea (Republic)	(31) 201917824	(73) Seven King Energy Co., Ltd.
(51) H01M 4/04	(32) 05.12.2019	(72) KIM, Jae-Kwang
H01M 4/13	(33) United Kingdom	(31) 20160036894
H01M 4/139	(51) H01M 4/13	(32) 28.03.2016
H01M 4/38	H01M 4/139	(33) Korea (Republic)
(11) EP3923384	H01M 4/62	(51) H01M 4/136
(21) EP20837643.4	H01M 10/0585	H01M 4/134
(47) 11.10.2023	(11) EP3506394	H01M 4/133
(87) CN2020100293	(21) EP17843353.8	H01M 4/1315
14.01.2021	(47) 11.10.2023	H01M 4/131
(22) 04.07.2020	(87) JP2017028119	C03C 3/089
(54) DEVICE AND METHOD FOR	01.03.2018	H01M 10/0562
REPLENISHING LITHIUM ON POLE	(22) 02.08.2017	H01M 10/052
PIECE	(54) COMPOSITION FOR NONAQUEOUS	C03C 3/064
(73) Contemporary Amperex Technology Co.,	SECONDARY BATTERY FUNCTIONAL	H01M 4/38
Limited	LAYERS, FUNCTIONAL LAYER	H01M 4/46
(72) XIE, Bin	FOR NONAQUEOUS SECONDARY	H01M 4/50
CHEN, Shitong	BATTERIES, NONAQUEOUS	H01M 4/52
GONG, Zhijie	SECONDARY BATTERY, AND METHOD	H01M 4/62
(31) 201910605942	FOR PRODUCING ELECTRODE	C03C 17/02
(32) 05.07.2019	FOR NONAQUEOUS SECONDARY	H01M 4/66
(33) China	BATTERIES	H01M 4/505
(51) H01M 4/04	(73) Zeon Corporation	H01M 4/525
H01M 4/137	(72) ARAI Kenji	H01M 10/42
H01M 4/1399	TANAKA Keiichiro	(11) EP3472881
H01M 4/62	ASAI Kazuki	(21) EP17730254.4
H01M 10/0525	(31) 2016165047	(47) 11.10.2023
H01M 4/60	(32) 25.08.2016	(87) GB2017051705
H01M 6/40	(33) Japan	21.12.2017
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(11) EP4016663	H01M 4/62	

(54) LITHIUM BOROSILICATE GLASS AS ELECTROLYTE AND ELECTRODE PROTECTIVE LAYER	WANG, Jiazheng DONG, Xiaobin HE, Libing	H01M 10/0525 H01M 10/0567 H01M 10/42
(73) Ilika Technologies Limited	(51) H01M 4/36	H01M 4/02
(72) LAUGHMAN, David Michael	H01M 4/38	(11) EP3809507
LEE, Christopher Edward	H01M 6/18	(21) EP19896283.9
PERKINS, Laura Mary	H01M 6/22	(47) 11.10.2023
DOMINGUES TARROSO GOMES, Isabel Alexandra	H01M 10/052	(87) CN2019125319
HAYDEN, Brian Elliott	H01M 10/0562	18.06.2020
(31) 201618651	H01M 10/0565	(22) 13.12.2019
201615383	H01M 4/02	(54) LITHIUM-ION BATTERY AND DEVICE
201610419	B05D 3/00	COMPRISING THE SAME
(32) 04.11.2016	B05D 3/06	(73) Contemporary Amperex Technology Co.,
09.09.2016	B05D 3/10	Limited
15.06.2016	B05D 3/12	(72) JIANG, Yao
(33) United Kingdom	B05D 1/02	HU, Chunhua
United Kingdom	(11) EP3878035	YI, Tiancheng
United Kingdom	(21) EP19804653.4	DOU, Shushi
(51) H01M 4/1395	(47) 11.10.2023	LIANG, Chengdu
H01M 4/04	(87) EP2019080425	(31) 201811537014
H01M 4/134	14.05.2020	(32) 14.12.2018
H01M 4/38	(22) 06.11.2019	(33) China
H01M 10/052	(54) STRUCTURED METAL ELECTRODE	(51) H01M 4/485
H01M 4/62	AND COMBINATION THEREOF WITH	H01M 4/525
H01M 4/58	NON-LIQUID ELECTROLYTES	H01M 4/58
(11) EP3996170	(73) Westfälische Wilhelms-Universität	H01M 4/587
(21) EP21761351.2	Münster	H01M 10/0525
(47) 11.10.2023	Forschungszentrum Jülich GmbH	H01M 10/0567
(87) KR2021002345	(72) WINTER, Martin	H01M 10/0568
02.09.2021	WIEMHÖFER, Hans-Dieter	H01M 4/38
(22) 25.02.2021	FINSTERBUSCH, Martin	(11) EP3443606
(54) METHOD FOR MANUFACTURING LITHIUM METAL NEGATIVE ELECTRODE, LITHIUM METAL NEGATIVE ELECTRODE MANUFACTURED THEREBY, AND LITHIUM-SULFUR BATTERY COMPRISING SAME	ARINICHEVA, Yulia	(21) EP17717687.2
(73) LG Energy Solution, Ltd.	BIEKER, Peter Maria	(47) 11.10.2023
(72) JUNG, Unho	JALKANEN, Kirsi	(87) EP2017058820
LEE, Jaegil	LIEBENAU, Dominik	19.10.2017
(31) 20210024094	KOLEK, Martin	(22) 12.04.2017
20200024005	BECKING, Jens	(54) ELECTROLYTE FOR RECHARGEABLE
(32) 23.02.2021	STAN, Marian Christian	ELECTROCHEMICAL BATTERIES
27.02.2020	SCHMOHL, Sebastian	(73) HPB Liquid Electrolyte UG
(33) Korea (Republic)	SCHMITZ, Paulo	(haftungsbeschränkt)
Korea (Republic)	(31) 102018127787	(72) HAMBITZER, Günther
(51) H01M 4/36	(32) 07.11.2018	(31) 102016106947
H01M 4/133	(33) Germany	(32) 14.04.2016
H01M 10/0525	(51) H01M 4/36	(33) Germany
H01M 4/1393	H01M 4/505	(51) H01M 4/54
H01M 4/587	H01M 4/525	H01M 10/32
H01M 4/02	H01M 4/62	H01M 4/34
H01M 4/04	H01M 10/052	H01M 10/44
(11) EP3944373	H01M 10/0562	(11) EP3565039
(21) EP20930644.8	H01M 10/0565	(21) EP18770292.3
(47) 11.10.2023	(11) EP3552260	(47) 11.10.2023
(87) CN2020088458	(21) EP17809307.6	(87) JP2018009540
04.11.2021	(47) 11.10.2023	27.09.2018
(22) 30.04.2020	(87) EP2017081776	(22) 12.03.2018
(54) SECONDARY BATTERY, PROCESS FOR PREPARING THE SAME AND APPARATUS CONTAINING THE SECONDARY BATTERY	14.06.2018	(54) SILVER OXIDE SECONDARY BATTERY
(73) Contemporary Amperex Technology Co., Limited	(22) 07.12.2017	(73) Maxell, Ltd.
(72) KANG, Meng	(54) LINKER-FUNCTIONALIZED CATHODES FOR SOLID STATE BATTERIES	(72) INOUE, Yusuke
	(73) Robert Bosch GmbH	WATANABE, Mitsutoshi
	(72) CHRISTENSEN, John F.	(31) 2017056466
	HELLSTROM, Sondra	(32) 22.03.2017
	EITOUNI, Hany	(33) Japan
	KOZINSKY, Boris	(51) H01M 4/86
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	(32) 07.12.2016	H01M 4/88
	(33) United States of America	H01M 4/92
	(51) H01M 4/36	H01M 8/1004
	H01M 4/525	H01M 8/1018
		H01M 4/90

H01M 8/102	(72) MARTINEZ BONASTRE, Alejandro	HWANG, Soo Min
H01M 8/1062	SPIKES, Geoffrey Hugh	(31) 20160059039
H01M 4/96	O'MALLEY, Rachel Louise	20150073108
(11) EP3534446	(31) 201601673	(32) 13.05.2016
(21) EP18874318.1	(32) 29.01.2016	26.05.2015
(47) 11.10.2023	(33) United Kingdom	(33) Korea (Republic)
(87) JP2018040171	(51) H01M 8/10	Korea (Republic)
09.05.2019	H01M 4/96	(51) H01M 10/04
(22) 29.10.2018	H01M 4/86	H01M 10/058
(54) ELECTRODE CATALYST LAYER, MEMBRANE ELECTRODE ASSEMBLY, AND SOLID POLYMER FUEL CELL	H01M 4/88	H01M 50/119
(73) Toppan Printing Co., Ltd.	(11) EP3671920	(11) EP3602649
(72) OZAWA Madoka	(21) EP19743503.5	(21) EP18726056.7
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(32) 29.03.2018	01.08.2019	04.10.2018
30.10.2017	(22) 17.01.2019	(22) 22.03.2018
(33) Japan	(54) METHOD FOR PREPARING CATALYST LAYER, CATALYST LAYER, AND MEMBRANE-ELECTRODE ASSEMBLY COMPRISING SAME AND FUEL CELL	(54) ENERGY STORAGE DEVICE
(51) H01M 8/04007	(73) LG CHEM, LTD.	(73) Robert Bosch GmbH
H01M 8/04014	(72) GHIL, Lee Jin	(72) NAGAMINE, Kenta
H01M 8/04089	KIM, Doyoung	KOBAYASHI, Tetsuhiro
H01M 8/04119	KIM, Woon Jo	KAWASOE, Yudai
H01M 8/124	(31) 20180009860	(31) 2017065656
C25B 15/08	(32) 26.01.2018	(32) 29.03.2017
C25B 9/77	(33) Korea (Republic)	(33) Japan
C25B 1/042	(51) H01M 10/04	(51) H01M 10/0565
C25B 1/23	H01M 10/0525	H01M 10/052
C25B 9/67	H01M 10/0585	(11) EP3499630
C25B 9/75	H01M 50/124	(21) EP18209364.1
C25B 15/021	H01M 50/178	(47) 11.10.2023
H01M 8/12	H01M 50/533	(22) 30.11.2018
(11) EP3494608	H01M 50/553	(54) LITHIUM ION CONDUCTING COMPOSITE MATERIAL, COMPRISING AT LEAST ONE POLYMER AND LITHIUM ION CONDUCTING PARTICLES, AND METHOD FOR PRODUCING A LITHIUM ION CONDUCTOR FROM THE COMPOSITE MATERIAL
(21) EP17754293.3	H01M 50/548	(73) SCHOTT AG
(47) 11.10.2023	H01M 50/578	(72) SCHUHMACHER, Joerg
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(22) 28.07.2017	(47) 11.10.2023	SCHMITT, Hans-Joachim
(54) SYSTEM FOR CONTROLLING THE TEMPERATURE AND PRESSURE OF A HIGH TEMPERATURE ELECTROLYSER (SOEC) REVERSIBLY OPERABLE AS FUEL CELL (SOFC)	(22) 15.04.2020	SAMSINGER, Rolf
(73) Commissariat à l'Énergie Atomique et aux Énergies Alternatives	(54) SECONDARY BATTERY	ROTTERS, Andreas
(72) CHATROUX, André	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	SCHNEIDER, Meike
DI IORIO, Stéphane	(72) KATO, Masashi	MENKE-BERG, Yvonne
DONNIER-MARECHAL, Thomas	(31) 2020031664	(31) 102017128719
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REYTIER, Magali	26.04.2019	(51) H01M 10/0567
ROUX, Guilhem	(33) Japan	H01G 11/64
(31) 1657537	Japan	H01M 10/052
(32) 03.08.2016	(51) H01M 10/04	H01M 10/0569
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H01M 4/88	H01M 4/38	H01G 11/06
H01M 4/92	H01M 10/054	H01G 11/60
(11) EP3408885	H01M 10/46	H01G 11/62
(21) EP17702924.6	(11) EP3306728	H01M 10/0525
(47) 11.10.2023	(21) EP16800298.8	H01M 10/0568
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(73) Johnson Matthey Hydrogen Technologies Limited	(54) COIN-TYPE SECONDARY BATTERY AND MANUFACTURING METHOD THEREFOR	(16.03.2017
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(72) KONO Yuki	(21) EP20823731.3	H01M 10/63
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FUJITA Koji	(87) EP2020080775	B60L 58/25
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(33) Japan	(54) METHOD AND SYSTEM FOR CONTROLLING AN ELECTRIC BATTERY	(11) EP4033587
(51) H01M 10/0585	(73) Commissariat à l'Energie Atomique et aux Energies Alternatives	(21) EP21755673.7
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B30B 15/02	G01R 31/392	(73) Jiangsu Contemporary Ampere Technology Limited
(11) EP3561938	H02J 7/00	(72) HUANG, Xiaojian
(21) EP17884710.9	G01R 31/3842	DAN, Zhimin
(47) 11.10.2023	G01R 31/389	LI, Bao
(87) JP2017045112	(11) EP3916884	ZUO, Xiyang
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(22) 15.12.2017	(47) 11.10.2023	(32) 30.11.2020
(54) METHOD AND APPARATUS FOR PRODUCING ALL-SOLID-STATE BATTERY	(87) JP2019034137	(33) China
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(72) OKAMOTO, Kenji	(22) 30.08.2019	H01M 10/625
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H01M 10/04	YAMAZOE, Takanori	H01M 50/247
H01M 10/052	MAKINO, Shigeki	(11) EP3758089
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(73) AESC Japan Ltd.	C22C 21/00	(32) 03.07.2018
(72) ICHIKAWA Tomoyuki	F28D 1/03	(33) Korea (Republic)
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H01M 50/509	B23K 101/00	H01M 50/204
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H01M 10/613	B21D 22/06	(73) Contemporary Amperex Technology Co., Limited
B32B 9/04	B21D 22/22	(72) HU, Guoliang
B32B 9/00	B21D 37/06	ZENG, Chao
B32B 15/08	B21D 37/16	CHEN, Shaozhen
H01M 50/105	H01M 10/0525	YANG, Quan
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(87) KR2019017512	(54) METHOD AND DEVICE FOR THE PRODUCTION OF METAL COMPOSITE FILMS FOR BATTERY CELLS	H01M 50/291
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(22) 11.12.2019	(72) Grau, Frederik	H01M 50/516
(54) POUCH FOR SECONDARY BATTERY AND POUCH TYPE SECONDARY BATTERY	Jamadar, Kartik	H01M 50/522
(73) LG Energy Solution, Ltd.	Theuerkauf, Christian	H01M 50/262
(72) LEE, Han Young	(31) 102020111274	(11) EP3631877
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H01M 50/543	(54) HOLDER, BATTERY ASSEMBLY, AND POWER UTILIZATION DEVICE	SCHWARZIEN, Benjamin
H01M 50/569	(73) Contemporary Amperex Technology Co., Limited	WIEGMANN, Martin
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(54) BATTERY SYSTEM WITH AT LEAST TWO BATTERIES	H01M 50/242	H01M 50/211
(73) fischer Power Solutions GmbH	H01M 50/289	H01M 50/262
(72) FISCHER, JULIAN	(11) EP4160792	H01M 50/271
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H01M 50/213	(73) Xiamen Hithium Energy Storage Technology Co., Ltd.	H01M 50/55
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Mitani, Atsushi	H01M 10/48	(72) NAKAI, Masayuki
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(51) H01M 50/30	(73) Zeon Corporation	(73) Samsung Electronics Co., Ltd.
H01M 50/10	(72) OURA Kei	(72) VILENSKIY, Artem Rudolfovitch
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B32B 15/085	(31) 2016122952	LEE, Chongmin
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H01M 10/0525	H01Q 1/38	GUSTAFSSON, Magnus
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(72) FORSTER, Ian	ZHOU, Dawei	HAN, Xiaojiang
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KIM, Sunghoe	LEE, Chien-Ming	H01Q 13/20
BAE, Janghwan	WANG, Hanyang	H01Q 3/34
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(73) Delta Electronics (Shanghai) Co., Ltd.	(51) H03H 7/40	(72) KUNG, Yi-Hsuan
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(11) EP4063903	(11) EP4092845	
(00) 07.06.2023	(00) 07.06.2023	

VRB

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

CO

Ingeschreven overdrachten.

Contains data concerning registered assignments or change of owners.

(71) Flooring Industries Limited, SARL	(71) Biorganics UFT B.V.	(51) H01M 2/10
(73) Flooring Industries Limited, SARL	(73) Biorganics UFT B.V.	H01M 2/12
(11) EP1640530	(11) EP2475461	H01M 10/48
(00) 26.09.2023	(00) 22.09.2023	H01M 10/617
(51) A47G 27/02	(51) B04B 1/04	H01M 10/625
E04F 15/02	B04B 7/12	H01M 10/643
(00) Change of owner(s) name	B04B 11/06	H01M 10/653
(71) TAEJU Industry Inc.	(00) Assignment	H01M 10/6551
(73) TAEJU Industry Inc.	(71) TOBACCO'S IMEX SRL	(00) Assignment
(11) EP2385588	(73) IMMOBILIARE VALFENERA DI VEILUVA	(71) GlycanAge LTD
(00) 22.09.2023	MIRELLA & C. S.N.C.	(73) GlycanAge LTD
(51) H01R 13/04	(11) EP2392515	(11) EP3011335
H01R 13/10	(00) 27.09.2023	(00) 29.09.2023
H01R 13/66	(51) A24F 17/00	(51) G01N 33/53
(00) Assignment	B65B 11/22	G01N 33/68
(71) Flooring Industries Limited, SARL	B65D 75/66	(00) Assignment
(73) Flooring Industries Limited, SARL	B65D 83/08	(71) Panasonic Energy Co., Ltd.
(11) EP2186650	(00) Change of Legal Entity	(73) Panasonic Energy Co., Ltd.
(00) 26.09.2023	(71) IMMOBILIARE VALFENERA DI VEILUVA	(11) EP2693514
(51) B44C 1/24	MIRELLA & C. S.N.C.	(00) 25.09.2023
B44C 3/00	(73) IMMOBILIARE VALFENERA DI VEILUVA	(51) H01M 2/10
B44C 3/08	MIRELLA & C. S.N.C.	H01M 2/20
B44C 5/04	(11) EP2392515	H01M 10/42
B44F 9/02	(00) 27.09.2023	H01M 10/48
E04F 15/02	(51) A24F 17/00	(00) Assignment
E04F 15/10	B65B 11/22	(71) ZHUHAI A-INK ADVANCED MATERIALS
(00) Change of owner(s) name	B65D 75/66	TECHNOLOGY CO., LTD.
(71) Yamaha Hatsudoki Kabushiki Kaisha	B65D 83/08	(73) ZHUHAI A-INK ADVANCED MATERIALS
Panasonic Energy Co., Ltd.	(00) Assignment	TECHNOLOGY CO., LTD.
(73) Yamaha Hatsudoki Kabushiki Kaisha	(71) Panasonic Energy Co., Ltd.	(11) 2027993
Panasonic Energy Co., Ltd.	(73) Panasonic Energy Co., Ltd.	(00) 26.09.2023
(11) EP2355206	(11) EP2911215	(51) C09D 5/24
(00) 25.09.2023	(00) 25.09.2023	(00) Assignment
(51) H01M 2/06	(51) B60L 11/18	(71) Panasonic Energy Co., Ltd.
H01M 2/08	H01M 2/10	(73) Panasonic Energy Co., Ltd.
H01M 2/10	H01M 2/20	(11) EP3217449
H01M 2/20	H01M 10/42	(00) 25.09.2023
H01M 2/30	H01M 10/48	(51) H01M 2/10
(00) Assignment	H01R 11/28	H01M 2/20
(71) Panasonic Energy Co., Ltd.	(00) Assignment	H01M 2/34
Yamaha Hatsudoki Kabushiki Kaisha	(71) Heraeus Precious Metals North America	(00) Assignment
(73) Panasonic Energy Co., Ltd.	Conshohocken LLC	(71) Zander Laboratories Projects B.V.
Yamaha Hatsudoki Kabushiki Kaisha	Changzhou Fusion New Material Co., Ltd.	(73) Zander Laboratories Projects B.V.
(11) EP2355209	(73) Heraeus Precious Metals North America	(11) 2022016
(00) 25.09.2023	Conshohocken LLC	(00) 22.09.2023
(51) H01H 85/20	Changzhou Fusion New Material Co., Ltd.	(51) G06F 3/01
H01M 2/30	(11) EP2317523	G06K 9/62
H01M 10/42	(00) 27.09.2023	G06Q 50/26
(00) Assignment	(51) C03C 3/12	G06T 7/00
(71) Yamaha Hatsudoki Kabushiki Kaisha	H01B 1/22	A61B 3/113
Panasonic Energy Co., Ltd.	H01J 9/02	G16H 50/20
(73) Yamaha Hatsudoki Kabushiki Kaisha	H01L 31/0224	(00) Change of owner(s) name
Panasonic Energy Co., Ltd.	H01M 4/04	(71) Panasonic Holdings Corporation
(11) EP2355205	H01M 4/134	Panasonic Energy Co., Ltd.
(00) 25.09.2023	(00) Assignment	(73) Panasonic Holdings Corporation
(51) H01M 2/10	(71) Panasonic Energy Co., Ltd.	Panasonic Energy Co., Ltd.
H01M 2/20	(73) Panasonic Energy Co., Ltd.	(11) EP3439132
H01M 2/22	(11) EP2999026	(00) 25.09.2023
H01M 2/30	(00) 25.09.2023	(51) H02J 3/32
(00) Assignment		H02J 7/00
		H02J 7/02

(00) Assignment	(00) 29.09.2023	G07C 5/00
(71) IPT Technology GmbH	(51) A23B 7/10	G08C 17/04
(73) ENRX IPT GmbH	A23B 7/154	H02J 7/00
(11) EP3102455	A23B 7/157	H04B 5/00
(00) 29.09.2023	A23B 7/16	H04B 5/02
(51) B60L 11/18	A23L 29/231	H04L 27/10
B61L 3/12	A23L 29/256	H02J 5/00
B61L 3/22	A23P 20/10	H02J 7/02
B61L 3/24	A23P 20/17	H02J 50/10
B61L 15/00	(00) Assignment	H02J 50/90
B61L 25/02	(71) IPT Group B.V.	(00) Assignment
G01S 5/00	(73) ENRX IPT GmbH	(71) ENRX IPT GmbH
G01S 11/00	(11) EP3110656	(73) ENRX IPT GmbH
G01V 3/06	(00) 29.09.2023	(11) EP3110656
G05D 1/02	(51) B60L 1/02	(00) 29.09.2023
G07C 5/00	B60L 11/18	(51) B60L 1/02
G08C 17/04	H01F 38/14	B60L 11/18
H02J 7/00	H02J 7/00	H01F 38/14
H04B 5/00	H02J 7/02	H02J 7/00
H04B 5/02	H02J 50/10	H02J 7/02
H04L 27/10	H02J 50/90	H02J 50/10
H02J 5/00	B60K 1/04	H02J 50/90
H02J 7/02	(00) Assignment	B60K 1/04
H02J 50/10	(71) Stichting ATO	(00) Change of owner(s) name
H02J 50/90	(73) Stichting ATO	(71) IPT Technology GmbH
(00) Assignment	(11) 2024113	(73) ENRX IPT GmbH
(71) Fortress Technology (Europe) Limited	(00) 28.09.2023	(11) EP3110656
(73) Fortress Technology (Europe) Limited	(51) F03D 15/00	(00) 29.09.2023
(11) EP2611716	(00) Assignment	(51) B60L 1/02
(00) 27.09.2023	(71) ENRX IPT GmbH	B60L 11/18
(51) B65G 23/18	(73) ENRX IPT GmbH	H01F 38/14
G01G 11/00	(11) EP3102455	H02J 7/00
G01G 15/00	(00) 29.09.2023	H02J 7/02
G01G 17/00	(51) B60L 11/18	H02J 50/10
G01G 21/30	B61L 3/12	H02J 50/90
(00) Assignment	B61L 3/22	B60K 1/04
(71) Biorganics UFT B.V.	B61L 3/24	(00) Assignment
(73) Biorganics UFT B.V.	B61L 15/00	(71) Fortress Technology (Europe) Limited
(11) EP3245004	B61L 25/02	(73) Fortress Technology (Europe) Limited
(00) 22.09.2023	G01S 5/00	(11) EP3330589
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B04B 7/12	G01V 3/06	(51) A22C 17/10
(00) Assignment	G05D 1/02	F16L 37/00
(71) ORDYHNA A/S	G07C 5/00	F16L 55/46
(73) Simatek A/S	G08C 17/04	F17D 1/08
(11) EP2142280	H02J 7/00	F17D 3/01
(00) 18.09.2023	H04B 5/00	G01N 33/02
(51) B01D 46/00	H04B 5/02	(00) Assignment
B01D 46/04	H04L 27/10	(71) Invert Robotics Global Solutions Limited
(00) Change of owner(s) name	H02J 5/00	(73) Invert Robotics Global Solutions Limited
(71) Panasonic Energy Co., Ltd.	H02J 7/02	(11) EP2766250
(73) Panasonic Energy Co., Ltd.	H02J 50/10	(00) 29.09.2023
(11) EP3168897	H02J 50/90	(51) B62D 55/06
(00) 25.09.2023	(00) Change of owner(s) name	B62D 55/075
(51) H01M 2/02	(71) IPT Group B.V.	B62D 55/265
H01M 2/10	(73) ENRX IPT GmbH	B62D 57/024
(00) Assignment	(11) EP3102455	(00) Assignment
(71) Simatek A/S	(00) 29.09.2023	(71) Meusburger Georg GmbH & Co KG
(73) Simatek A/S	(51) B60L 11/18	(73) Meusburger Georg GmbH & Co KG
(11) EP2142280	B61L 3/12	(11) EP2360003
(00) 18.09.2023	B61L 3/22	(00) 22.09.2023
(51) B01D 46/00	B61L 3/24	(51) B29C 45/00
B01D 46/04	B61L 15/00	B29C 45/28
(00) Demerger	B61L 25/02	B29C 45/77
(71) Florette Innova Iberica SL	G01S 5/00	(00) Assignment
(73) Florette Innova Iberica SL	G01S 11/00	(71) Metso Outotec Sweden AB
(11) EP2555640	G01V 3/06	(73) Metso Outotec Sweden AB
	G05D 1/02	

(11) EP3417944	(00) 22.09.2023	(71) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(00) 20.09.2023	(51) B65D 6/28	Dolby Laboratories Licensing Corporation
(51) B04C 5/04	F25D 29/00	(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
B04C 5/12	(00) Assignment	Dolby Laboratories Licensing Corporation
B04C 5/23	(71) Ciech Soda Polska S.A.	(11) EP3404656
(00) Assignment	(73) Ciech Soda Polska S.A.	(00) 29.09.2023
(71) Metso Outotec Sweden AB	(11) EP3312143	(51) G10L 19/008
(73) Metso Outotec Sweden AB	(00) 22.09.2023	G06F 12/0815
(11) EP3417945	(51) C01C 1/26	H04S 3/02
(00) 20.09.2023	B01D 3/14	(00) Assignment
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B04C 5/24	C01D 7/18	
(00) Assignment	(00) Assignment	
(71) EASYL ZINC	(71) Machnet SG PTE. LTD.	
(73) EASYL ZINC	(73) Machnet SG PTE. LTD.	
(11) EP3277632	(11) EP3504445	
(00) 25.09.2023	(00) 25.09.2023	
(51) A01N 59/16	(51) F15B 11/18	
B01J 23/06	F15B 11/12	
B01J 35/00	F16H 27/02	
B01J 37/00	A61B 90/11	
B01J 37/04	A61B 10/02	
B01J 37/08	A61B 17/00	
C01G 9/00	F16H 55/26	
H01M 4/08	(00) Assignment	
H01M 4/24	(71) HSH Techniek B.V.	
H01M 4/26	HSR Groep B.V.	
H01M 4/62	(73) HSR Groep B.V.	
H01M 4/48	HSH Techniek B.V.	
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(00) Assignment	(00) 26.09.2023	
(71) Peloton Interactive Taiwan, Inc.	(51) A01K 1/03	
(73) Peloton Interactive Taiwan, Inc.	A01K 31/14	
(11) EP3278845	(00) Change of owner(s) name	
(00) 22.09.2023	(71) Metso Outotec Finland Oy	
(51) A63B 21/00	(73) Metso Outotec Finland Oy	
A63B 21/005	(11) EP3894277	
A63B 21/015	(00) 29.09.2023	
A63B 22/06	(51) B60R 13/01	
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(00) 22.09.2023	(73) Xencor, Inc.	
(51) B29C 43/22	(11) EP3380196	
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C08J 3/18	(51) A61K 39/00	
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(00) Assignment	C07K 16/28	
(71) Christopher Ingham	C07K 16/30	
Tim Vancampen	C07K 16/46	
Wim de Rycke	(00) Assignment	
Bruno de Jonghe	(71) R-TEK MANUFACTURING LIMITED	
CLEVERSOLUTIONS BVBA	(73) R-TEK MANUFACTURING LIMITED	
(73) Christopher Ingham	(11) EP3931410	
Tim Vancampen	(00) 26.09.2023	
Wim de Rycke	(51) E04F 15/02	
Bruno de Jonghe	E04F 15/10	
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(11) EP3554966	(71) (VIETNAM) HONG KY CO., LTD	
(00) 22.09.2023	(73) (VIETNAM) HONG KY CO., LTD	
(51) B65D 90/00	(11) EP3925494	
(00) Assignment	(00) 21.09.2023	
(71) Coldest Chain Oy	(51) A47C 21/08	
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(11) EP2494293		

TVH

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

UP1

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

(11) EP3563573	(11) EP3397071	(11) EP3287768
(11) EP3217378	(11) EP3856894	(11) EP3787496
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UP2

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

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

UP3

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

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

UP4

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

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

UP5

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

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

UP6

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

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