



Rijksdienst voor Ondernemend  
Nederland

# *Nederland*

## *De industriële eigendom*

## Inleiding

### Hoofdblad

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

### Bijblad

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

### Abonnementsprijzen per (kalender)jaar:

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## Introduction

### Patent Bulletin

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

### Official Journal

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

### Subscription rates per calendar year:

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

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<b>Rubriek NP1</b> Bevat gegevens betreffende octrooiaanvragen die zijn ingeschreven op grond van de Octrooiwet 1995.	<b>8 Heading NP1</b> Contains data concerning Netherlands patent applications which have been entered in the patent register under the Patents Act 1995.	<b>8</b>
<b>Rubriek NP2</b> Bevat gegevens betreffende ingeschreven en verleende octrooien op grond van de Octrooiwet 1995.	<b>16 Heading NP2</b> Contains data concerning Netherlands patents which have been entered in the patent register under the Patents Act 1995.	<b>16</b>
<b>Rubriek NP3</b> Bevat gegevens betreffende Nederlandse octrooien na gedeeltelijke afstand conform artikel 63 van de Octrooiwet 1995.	<b>24 Heading NP3</b> Contains data concerning Netherlands patents after partial renunciation confirm Article 63 of the Patents Act 1995.	<b>24</b>
<b>Rubriek EP1</b> Bevat gegevens betreffende vertaalde conclusies van Europese octrooiaanvragen.	<b>25 Heading EP1</b> Contains data concerning translations of the conclusions of European patent applications.	<b>25</b>
<b>Rubriek EP2</b> Bevat gegevens betreffende voor Nederland verleende Europese octrooien.	<b>26 Heading EP2</b> Contains data concerning European patents granted for The Netherlands.	<b>26</b>
<b>Rubriek EP3</b> Bevat gegevens betreffende voor Nederland verleende Europese octrooien waarvoor een vertaling is ingediend conform artikel 52 lid 1 of 6 van de Octrooiwet 1995.	<b>256 Heading EP3</b> Contains data concerning European patents granted for The Netherlands in which a translation was filed confirm Article 52 par. 1 or 6 of the Patents Act 1995.	<b>256</b>
<b>Rubriek EP4</b> Bevat gegevens betreffende voor Nederland verleende gewijzigde Europese octrooien.	<b>272 Heading EP4</b> Contains data concerning European patents granted in amended form for the Netherlands.	<b>272</b>
<b>Rubriek EP5</b> Bevat gegevens betreffende voor Nederland verleende gewijzigde	<b>274 Heading EP5</b> Contains data concerning European patents granted in amended form for	<b>274</b>

Europese octrooien waarvoor een gewijzigde vertaling is ingediend.

The Netherlands in which an amended translation was filed.

**Rubriek SPC**

Bevat gegevens betreffende ingeschreven en verleende certificaten

**275Heading SPC**

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

275

**Rubriek VB1**

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

**276Heading VB1**

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

276

**Rubriek VB2**

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

**277Heading VB2**

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

277

**Rubriek MED**

Bevat gegevens betreffende overige mededelingen.

**278Heading MED**

Contains data concerning other communications.

278

**Rubriek VRV**

Bevat gegevens betreffende verval of nietigverklaring.

**279Heading VRV**

Contains data concerning lapse or annulment.

279

**Rubriek VRB**

Bevat gegevens betreffende verbeteringen op eerdere publicaties.

**300Heading VRB**

Contains data concerning corrections on earlier publications.

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**Rubriek CO**

Bevat gegevens betreffende wijzigingen in het octrooiregister.

**301Heading CO**

Contains data concerning changes in the Netherland patent register.

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**Rubriek TVH**

Bevat gegevens betreffende topografieën van halfgeleiderproducten.

**308Heading TVH**

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

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<b>Rubriek UP1</b> Bevat gegevens over Europese octrooien met geregistreerde eenheidswerking.	<b>309Heading UP1</b> Contains data concerning European patents with registered Unitary Effect.	<b>309</b>
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<b>Rubriek UP5</b> Bevat gegevens over Europese octrooien met afgewezen verzoek ex. artikel 52a (herstel recht op validatie).	<b>316Heading UP5</b> Contains data concerning European patents with rejected request ex article 52a (restoration of validation right).	<b>316</b>
<b>Rubriek UP6</b> Bevat gegevens over Europese octrooien met ingetrokken verzoek ex. artikel 52a (herstel recht op validatie).	<b>317Heading UP6</b> Contains data concerning European patents with withdrawn request ex article 52a (restoration of validation right).	<b>317</b>

## Overzicht van Inid codes

### INID CODES

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

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

### INID CODES

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

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

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

## Rubrieken/Headings

### NP1

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

(51) A01B 13/08 A01B 13/10 (21) 2033168 (22) 28.09.2022 (54) DESIGN METHOD FOR DOUBLE-WING SUBSOILING SHOVEL BASED ON TOPOLOGY OPTIMIZATION	(71) Jiangxi Academy of Agricultural Sciences Institute of Agricultural Engineering (74) ir. H.Th. van den Heuvel c.s. (72) Xianhua Dong Licai Chen Kangjun Wang Shifu Shu Luofa Wu (41) 10.07.2023 (31) 2022108298390 (32) 15.07.2022 (33) China	(21) 2030385 (22) 31.12.2021 (54) PROCESS FOR PRODUCING SUBSTANTIALLY LACTOSE FREE MILK, AND SUBSTANTIALLY LACTOSE FREE MILK OBTAINABLE BY SAID PROCESS (71) Ausnutria B.V. (74) dr. ir. G.J.C. Verdijck c.s. (72) Mattia Boiani (41) 06.07.2023
(71) QINGDAO AGRICULTURAL UNIVERSITY (74) ir. H.Th. van den Heuvel c.s. (72) Haiyan Du Dejie Cui Xiaoguang Zhang Jingde Wang Haoquan Wang Zengqiang Li Xiangyun Song Xinwei Liu	(31) 2022108298390 (32) 15.07.2022 (33) China (51) A01G 2/32 A01G 2/35 (21) 2031349 (22) 21.03.2022 (54) ROOTSTOCK-SCION MATCHED GRAFTING METHOD, APPARATUS AND GRAFTING ROBOT FOR MELON SEEDLINGS	(71) TEA RESEARCH INSTITUTE, CHINESE ACADEMY OF AGRICULTURAL SCIENCES (74) ir. M.B. Plaggenborg (72) Rentian Zhang Zhongyuan Liu Ting An Muzhe Wang Yang Li Chunwang Dong Xuesong Zhu Chongshan Yang (41) 07.07.2023 (31) 202111651806.3 (32) 30.12.2021 (33) China
(51) A01B 13/08 A01B 13/10 (21) 2033205 (22) 30.09.2022 (54) OPTIMIZATION METHOD FOR SUBSOILING SHOVEL	(71) Intelligent Equipment Technology Research Center of Beijing Academy of Agriculture and Forestry (74) ir. M.B. Plaggenborg (72) Wenqian Huang Wenzhong Guo Dongdong Jia Xiaoming Wei Kai Jiang (41) 05.07.2023 (31) 202111656817.0 (32) 31.12.2021 (33) China	(71) INTELLIGENT TEA LEAF SPREADING, WITHERING AND FERMENTING SYSTEM (71) TEA RESEARCH INSTITUTE, CHINESE ACADEMY OF AGRICULTURAL SCIENCES (74) ir. M.B. Plaggenborg (72) Rentian Zhang Zhongyuan Liu Ting An Muzhe Wang Yang Li Chunwang Dong Xuesong Zhu Chongshan Yang (41) 07.07.2023 (31) 202111651806.3 (32) 30.12.2021 (33) China
(71) QINGDAO AGRICULTURAL UNIVERSITY (74) ir. H.Th. van den Heuvel c.s. (72) Xinwei Liu Zengqiang Li Xiangyun Song Dejie Cui Jingkuan Wang Jingde Wang Xiaoguang Zhang Haiyan Du	(51) A01N 63/30 (21) 2030446 (22) 06.01.2022 (54) BIOCONTROL STRAIN AGENT FOR CONTROLLING MELOIDOGYNE SPP. AND USE THEREOF	(51) A23F 3/06 A23F 3/08 (21) 2030562 (22) 17.01.2022 (54) INTELLIGENT TEA LEAF SPREADING, WITHERING AND FERMENTING SYSTEM (71) TEA RESEARCH INSTITUTE, CHINESE ACADEMY OF AGRICULTURAL SCIENCES (74) ir. M.B. Plaggenborg (72) Rentian Zhang Zhongyuan Liu Ting An Muzhe Wang Yang Li Chunwang Dong Xuesong Zhu Chongshan Yang (41) 07.07.2023 (31) 202111651806.3 (32) 30.12.2021 (33) China
(51) A01C 3/00 C02F 1/52 (21) 2030422 (22) 04.01.2022 (54) SYSTEEM VOOR HET REDUCEREN VAN DE VORMING VAN AMMONIAK IN EEN MESTRUIJME EN WERKWIJZE DAARVOOR	(71) Shanxi Agricultural University Shanxi Shenyu Huinong Technology Co., Ltd. (74) ir. W.J.J.M. Kempes (72) Keyong Cui Bin Du Yumei Xu Jianming Wang Bin Yang Ping Lu Hui Wang Hailong Dong Zuogang Zhang Chunzhen Cui Lin Wang (41) 11.07.2023	(51) A23F 3/32 A23F 3/18 A61K 36/82 A61P 3/08 (21) 2031126 (22) 01.03.2022 (54) HYPOGLYCEMIC SE-ENRICHED TEA POLYSACCHARIDE AND PREPARATION METHOD OF BUCCAL TABLET THEREOF (71) Shanghai Normal University Shanghai Jiao Tong University (74) ir. M.B. Plaggenborg (72) Lizeng Cheng Xinlin Wei Yuanfeng Wang Lanlan Peng Kang Wei (31) 202210009513.3 (32) 06.01.2022 (33) China
(71) Farmin B.V. A. Huisman Holding B.V. (74) dr. ir. G.J.C. Verdijck c.s. (72) Andries Johannes Huisman (41) 07.07.2023	(51) A01F 11/06 A01F 7/04 A01F 12/22 (21) 2033167 (22) 28.09.2022 (54) LOW-LOSS-RATE THRESHING DEVICE OF COMBINE HARVESTER	(51) A23K 30/18 A23K 20/22



A23K 10/37	Jie Li	Dan Liu
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(21) 2030382	Xiaohan Chai	Dan Liao
(22) 31.12.2021	Yongfu Guo	Peng Luo
(54) HYBRID BROUSSONETIA	Xuefeng Hu	Xin Li
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(71) Institute of Geographic Sciences and	A23L 33/10	C07D 405/06
Natural Resources Research, Chinese	(21) 2030928	(21) 2031294
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Institute of Biological Resources, Jiangxi	(54) COMPOSITE FRUIT AND VEGETABLE	(54) PREPARATION METHOD AND
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(74) ir. W.J.J.M. Kempes	PREPARATION METHOD THEREOF	DERIVATIVE CONTAINING
(72) Jie Liu	(71) Fujian Agriculture and Forestry University	BENZYLPIPERAZINE
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Chunhua Yang	Yuting Tian	Guihua Sheng
Jingsheng Wang	Yafeng Zheng	Jiayi Li
Dongsheng Wang	(41) 10.07.2023	Honglei Wang
Li He	(31) 202210004320.9	Xijun Nan
Jiangli Huang	(32) 05.01.2022	(41) 05.07.2023
Ping Sheng	(33) China	(31) 202111653863.5
(41) 07.07.2023	(51) A23L 33/105	(32) 30.12.2021
(51) A23K 50/60	A23L 19/00	(33) China
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(21) 2030665	(71) SHANXI UNIVERSITY OF CHINESE	(71) Yanbian University
(22) 24.01.2022	MEDICINE	(74) ir. W.J.J.M. Kempes
(54) ANTIBIOTIC - FREE FEED FOR	(74) ir. M.B. Plaggenborg	(72) Lianxun Piao
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PIGLETS AND PREPARATION	Nan Qin	(41) 07.07.2023
METHOD THEREOF	(41) 07.07.2023	(51) A61K 31/728
(71) Institute of Animal Science, Guangdong	(51) A61B 5/103	A61K 31/045
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(74) dr. T. Wittop Koning PhD	(21) 2034960	A61K 31/047
(72) Zongyong Jiang	(22) 31.05.2023	A61K 31/78
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(31) 202210010575.6	(72) Jun Zhu	(54) EYE DROP FOR TREATING
(32) 06.01.2022	Xin Ma	PRESBYOPIA AND PREPARATION
(33) China	Longyan Wu	METHOD THEREOF
(51) A23K 50/90	Ran Huang	(71) Jinlong Yang
A23K 10/30	(31) 202211260514.1	(74) ir. M.B. Plaggenborg
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A23K 10/12	(33) China	Jinlong Yang
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(21) 2030413	(22) 31.05.2023	A61L 17/00
(22) 03.01.2022	(54) A HEAD PROTECTION DEVICE	A61L 17/14
(54) ARTIFICIAL FEED FOR GRAPHOLITA	(71) AIR FORCE MEDICAL UNIVERSITY	(21) 2030370
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(71) Shanxi Agricultural University	Xiuquan Wu	ABSORBABLE SURGICAL SUTURE
(74) ir. M.B. Plaggenborg	Zhuoyuan Zhang	WITH HIGH BIOCOMPATIBILITY AND
(72) Weina Kong	Junmiao Ge	HIGH TENACITY

(71) SHANDONG BODA MEDICAL PRODUCTS CO., LTD.	Wanzhong Ren	(41) 07.07.2023
(74) ir. M.B. Plaggenborg	Qi Zhao	(51) B06B 1/02
(72) Yufu Zhang	Wenyou Xu	B06B 3/00
Hongyu Gao	(41) 07.07.2023	B08B 3/12
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(41) 07.07.2023	B01D 46/04	(22) 06.07.2022
(51) A61M 1/36	B01D 46/06	(54) ULTRASONIC GENERATION DEVICE FOR WATER JET CLEANING
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(22) 31.12.2021	(21) 2030430	(72) Fanchao Yang
(54) BLOOD TUBING SYSTEMS FOR HEMODIALYSIS	(22) 05.01.2022	(41) 06.07.2023
(71) Ying Tan Rong Jia Group Medical Instruments Co., Ltd.	(54) NOVEL FEED DUST REMOVAL DEVICE	(31) 202111673846.8
(74) ir. W.J.J.M. Kempes	(71) GUANGDONG EVERGREEN FEED INDUSTRY CO., LTD	(32) 31.12.2021
(72) Xiaorong Xia	(74) ir. W.J.J.M. Kempes	(33) China
Jinjin Wei	(72) Limei Zhao	(51) B21D 28/10
Xinmin Cao	Zhuoduo Wang	B21D 28/22
(41) 07.07.2023	Haitao Zhang	C21D 8/12
(51) A61P 3/00	Yongjie Jiang	H02K 15/02
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A61K 31/445	(51) B01J 23/46	(71) Robert Bosch GmbH
(21) 2035081	(21) 2030942	(74) ir. G.A.J.M. Plevier
(22) 13.06.2023	(22) 15.02.2022	(72) Arjen Brandsma
(54) COMPOSITION PROMOTING ABSORPTION AND UTILIZATION OF NUTRIENTS AND INTERVENTION FACTORS	(54) CHLORINE-RESISTANT AND WATER-RESISTANT CATALYST AND PREPARATION METHOD AND USE THEREOF	Gert Jansen
(71) ETERNAL GRACE PTE.LTD.	(71) ZHEJIANG UNIVERSITY	Robert van den Heuvel
(74) drs. C.M.A. Quintelier	(74) ir. W.J.J.M. Kempes	Peter Nouws
(72) Hongfeng Shen	(72) Yunpeng Long	Oleg Alexandrov
Maowa Li	Meiling Chen	(41) 05.07.2023
Jingjing Dai	Xiaole Weng	(51) B21D 28/10
(51) A61P 25/24	Zhongbiao Wu	B21D 28/22
A61K 36/73	(31) 202210011307.6	H02K 15/02
(21) 2031296	(32) 06.01.2022	(21) 2030371
(22) 15.03.2022	(33) China	(22) 30.12.2021
(54) APPLICATION OF ARONIA MELANOCARPA LEAF POLYPHENOL EXTRACT IN PREPARING ANTIDEPRESSANTS	(51) B01L 9/02	(54) METHOD FOR MANUFACTURING LAMELLAS FOR A LAMINATION
(71) Shandong University of Technology	G09B 5/02	(71) Robert Bosch GmbH
(74) ir. M.B. Plaggenborg	(21) 2030448	(74) ir. G.A.J.M. Plevier
(72) Guihua Sheng	(22) 06.01.2022	(72) Robert van den Heuvel
Quancheng Zhou	(54) INTERNET-OF-THINGS-BASED EXPERIMENT PLATFORM SPECIAL FOR TEACHING LABORATORY	Peter Nouws
Wei Ji	(71) Dalian University	Arjen Brandsma
Xijun Nan	(74) ir. W.J.J.M. Kempes	Gert Jansen
Jiayi Li	(72) Changqing Ji	(41) 05.07.2023
Honglei Wang	Jing Wang	(51) B22F 1/145
(41) 05.07.2023	(41) 11.07.2023	B22F 3/14
(31) 202111653865.4	(51) B02C 23/08	C22C 29/06
(32) 30.12.2021	B02C 23/18	C22C 1/05
(33) China	(21) 2030381	(21) 2030424
(51) B01D 3/14	(22) 31.12.2021	(22) 04.01.2022
(21) 2030411	(54) ORE CRUSHER	(54) METHOD FOR PREPARING HIGH-STRENGTH HARD ALLOY WITH GOOD RED HARDNESS
(22) 03.01.2022	(71) Chinese Academy of Geological Sciences	(71) Heyuan Puyi Cemented Carbide Plant Limited Company
(54) DEVICE AND PROCESS FOR SEPARATING N-BUTANE-ISOBUTANE-BUTENE BY DIVIDING-WALL EXTRACTIVE DISTILLATION	(74) ir. W.J.J.M. Kempes	(74) ir. M.B. Plaggenborg
(71) YANTAI UNIVERSITY	(72) Yaoyao Zhang	(72) Wangmei Li
(74) ir. M.B. Plaggenborg	Tao Wang	Guoan He
(72) Wenhua Wang	Kai Liu	(51) B24B 29/02
Xiaoping Chen	Kemo Jin	B24B 41/04
Hui Tian	Yongchao Wang	B24B 41/06
	Zenan Zhao	B24B 47/12
	Xuejun Zhang	B24B 47/22
	Xiaobo Zhang	(21) 2035102
	Shanshan Wang	(22) 15.06.2023
	Xiaofei Li	

- (54) POLISHING DEVICE FOR PROCESSING MECHANICAL SEAL MEMBER
- (71) ANHUI UNIVERSITY OF TECHNOLOGY  
Ma'anshan Chenxu Machinery Manufacturing Co.,Ltd  
Wuhu Technology and Innovation Research Institute, AHUT
- (74) ir. W.J.J.M. Kempes
- (72) Wei Wei  
Meng Li  
Tao Wang  
Sifu Cheng  
Liping Shi
- (31) 202211521218.2  
(32) 30.11.2022  
(33) China
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- (51) B24C 7/00  
B24C 3/22  
B24C 5/02  
B24C 3/06  
B24C 11/00  
B24C 1/04  
B25J 11/00
- (21) 2032480  
(22) 13.07.2022
- (54) ABRASIVE WATER JET FLEXIBLE INTELLIGENT SIX-AXIS CUTTING PLATFORM 3D CURVED SURFACE CUTTING PROCESS
- (71) Jiangsu Huazhen Aviation Technology Co., Ltd.
- (74) ir. W.J.J.M. Kempes
- (72) Fanchao Yang
- (41) 10.07.2023  
(31) 202210008789.X  
(32) 05.01.2022  
(33) China
- 
- (51) B26D 7/27  
B26D 7/00  
B24B 55/08  
B24B 21/00  
B24B 21/18  
B24B 21/20  
B26D 1/18
- (21) 2030408  
(22) 03.01.2022
- (54) MULTI-FUNCTIONAL GRINDING AND CUTTING MACHINE FOR RUBBER TRANSMISSION BELT
- (71) QINGDAO UNIVERSITY OF SCIENCE AND TECHNOLOGY
- (74) ir. M.B. Plaggenborg
- (72) Jing Xian  
Lei Wang  
Weifeng Zhang  
Fuxia Zhang  
Huanyi Liu  
Guoyou Zhu
- (41) 07.07.2023
- 
- (51) B32B 17/06  
D06N 3/00  
D06N 3/06  
B32B 17/04
- (21) 2030445  
(22) 06.01.2022
- (54) PVC BACKING SLURRY OF MODULAR CARPET AND PRODUCTION PROCESS THEREOF
- (71) SHANDONG UNIQUES TECH.CO.,LTD
- (74) ir. W.J.J.M. Kempes
- (72) Xiao Guo  
Lanxi Zhong  
Yanqing Shao
- (41) 11.07.2023
- 
- (51) B63B 22/00  
(21) 2030419  
(22) 04.01.2022
- (54) HIGH-PRECISION SUBMERSIBLE BUOY ARRAY SYSTEM FOR REALIZING MARINE DATA AREA MONITORING
- (71) First Institute of Oceanography, Ministry of Natural Resources  
Yellow Sea Fisheries Research Institute, Chinese Academy of Fishery Sciences
- (74) ir. W.J.J.M. Kempes
- (72) Xiaolong Zhao  
Zhiping Zhang  
Haoran Zhang  
Xuejun Xiong
- 
- (51) B63B 27/14  
(21) 2030420  
(22) 04.01.2022
- (54) FULLY-AUTOMATIC FOLDED REVOLVING GANGWAY FOR SHIPS
- (71) Yellow Sea Fisheries Research Institute, Chinese Academy of Fishery Sciences  
First Institute of Oceanography, Ministry of Natural Resources
- (74) ir. W.J.J.M. Kempes
- (72) Qingfeng Hua  
Xuejun Xiong  
Lisong Wang  
Haoran Zhang  
Zhiping Zhang  
Xin Li
- 
- (51) B82Y 15/00  
B82Y 40/00  
A61B 5/02  
G01L 1/18
- (21) 2030403  
(22) 03.01.2022
- (54) PRESSURE SENSOR BASED ON CONDUCTIVE POLYMER CORRUGATED COATING AND APPLICATION THEREOF
- (71) Shandong university  
Shandong Taishan Sporting Goods Engineering Technology Research Center Co., Ltd.  
Shandong Wanyi Sports Health Service Co., Ltd.  
Shandong Sport University  
Taishan Sports Industry Group Co.,LTD  
Laoling Taishan Artificial Lawn Industry Co., Ltd.  
Hexin International Sporting Goods Testing Center Co., Ltd.
- (74) ir. W.J.J.M. Kempes
- (72) Xuewen Tian  
Dewei Mao  
Mengjiao Geng  
Junxian Yang
- Ruilin Zhang  
Xianliang Wang  
Ji Ma  
Jie Chen  
Shanshan Ding  
Wei Wang  
Kaili Shi  
Lele Han  
Shihao Zhang  
Jian Li  
Zhen'guo Shi  
Yu Gu  
Hongyan Li  
Jianning Cai  
Wenhao Yi  
Peiming Xu
- (41) 07.07.2023
- 
- (51) C01B 13/14  
B82Y 30/00
- (21) 2030439  
(22) 05.01.2022
- (54) TRANSITION METAL OXIDE NANOMATERIAL, PREPARATION METHOD AND USE THEREOF
- (71) Hebei Normal University for Nationalities
- (74) ir. M.B. Plaggenborg
- (72) Xing Yang  
Hengqiang Zhang  
Zhaokun Xuan  
Qiong Wu  
Hongli Chen
- (41) 10.07.2023
- 
- (51) C02F 9/00  
(21) 2030369  
(22) 30.12.2021
- (54) SHALE GAS FRACTURING FLOW-BACK FLUID TREATMENT SYSTEM AND WORKING METHOD BASED ON FORWARD OSMOSIS TECHNOLOGY
- (71) Shandong Jianzhu University
- (74) ir. M.B. Plaggenborg
- (72) Luopeng Yang  
Yunxia Qu  
Linhua Zhang
- (41) 06.07.2023
- 
- (51) C04B 7/21  
C04B 7/38
- (21) 2030368  
(22) 30.12.2021
- (54) MIXING AND GRINDING PREPARATION METHOD OF STEEL SLAG-MINERAL SLAG-GYPSUM COMPOSITE CEMENTING MATERIAL
- (71) She County Qingzhang Cement Manufacturing Co., Ltd.  
University of Science and Technology Beijing
- (74) ir. M.B. Plaggenborg
- (72) Duiheng Yang  
Zhijiang Yang  
Haojing Ba  
Zhili Zhao  
Wen Ni  
Guoping Wen
- (41) 06.07.2023
- 
- (51) C04B 35/185  
(21) 2030426  
(22) 04.01.2022

- (54) ALUMINIUM-SILICON-BASED POROUS CERAMIC COMPONENT FOR METAL LIQUID PURIFIER AND PREPARATION METHOD OF ALUMINIUM-SILICON-BASED POROUS CERAMIC COMPONENT  
(71) Luoyang Kechuang New Materials Co., Ltd.  
(74) ir. M.B. Plaggenborg  
(72) Junqiang Ma  
(41) 07.07.2023  
(51) C04B 35/20  
C04B 35/22  
C04B 35/622  
(21) 2030388  
(22) 31.12.2021  
(54) MICROWAVE DIELECTRIC CERAMIC MATERIAL WITH LOW DIELECTRIC CONSTANT AND LOW DENSITY AND PREPARATION METHOD THEREOF  
(71) Guilin University of Technology  
(74) ir. M.B. Plaggenborg  
(72) Xiuli Chen  
Huanfu Zhou  
Jin Huang  
Hailin Zhang  
(41) 07.07.2023  
(51) C04B 35/626  
C04B 33/135  
(21) 2030357  
(22) 30.12.2021  
(54) Use of mineral waste in the production of ceramics  
(71) Vitrifex Ceramic Glazes  
(74) dr. R.C. van Duijvenbode c.s.  
(72) Jan Berend Baas  
(51) C05G 3/00  
(21) 2030440  
(22) 05.01.2022  
(54) APPLICATION OF POLY-Y-GLUTAMIC ACID AS FERTILIZER ABSORPTION PROMOTER IN AGRICULTURAL PLANTING  
(71) Wuhan Guanghua Times Biotechnology Co., Ltd.  
(74) ir. M.B. Plaggenborg  
(72) Wei Peng  
Wei Song  
Qiang Li  
Binzhou Yu  
Qingzhuo Zeng  
(41) 10.07.2023  
(51) C05G 3/80  
(21) 2033179  
(22) 29.09.2022  
(54) Method for improving acidified soil in orchard by utilizing biomass charcoal  
(71) Qingdao Agricultural University  
(74) ir. H.A. Witmans c.s.  
(72) Xiangyun Song  
Dejie Cui  
Zengqiang Li  
Jiani Ma  
Xinwei Liu  
Xiaoguang Zhang  
Haiyan Du  
(41) 10.07.2023  
(51) C07C 69/54  
(21) 2030435  
(22) 05.01.2022  
(54) A CLEAN PRODUCTION METHOD OF DIPENTAERYTHRITOL HEXAACRYLATE  
(71) Jiangsu Litian Technology Co., Ltd.  
(74) ir. M.B. Plaggenborg  
(72) Jianfei Hu  
Pengzhi Fu  
Huaixiang Ma  
Lili Zhang  
(41) 10.07.2023  
(51) C07K 5/10  
C12P 21/06  
C07K 4/10  
A61P 9/12  
A61K 38/07  
(21) 2031295  
(22) 15.03.2022  
(54) PREPARATION METHOD OF PEA PROTEIN TETRAPEPTIDE AND ITS APPLICATION IN ANTIHYPERTENSIVE FIELDS  
(71) Shandong University of Technology  
(74) ir. M.B. Plaggenborg  
(72) Honglei Wang  
Quancheng Zhou  
Wei Ji  
Guihua Sheng  
Jiayi Li  
Xijun Nan  
(41) 05.07.2023  
(31) 202111653861.6  
(32) 30.12.2021  
(33) China  
(51) C07K 14/415  
C12P 21/06  
A61K 38/01  
A61P 9/12  
(21) 2031293  
(22) 15.03.2022  
(54) PREPARATION METHOD AND APPLICATION OF PEA PROTEIN ANTIHYPERTENSIVE PEPTIDE  
(71) Shandong University of Technology  
(74) ir. M.B. Plaggenborg  
(72) Xijun Nan  
Honglei Wang  
Wei Ji  
Guihua Sheng  
Jiayi Li  
Quancheng Zhou  
(41) 05.07.2023  
(31) 202111657365.8  
(32) 30.12.2021  
(33) China  
(51) C07K 14/78  
C07K 14/00  
C12N 5/0783  
C12N 5/078  
G01N 33/483  
C07C 227/00  
(21) 2030377  
(22) 31.12.2021  
(54) Cell monolayer blocking agents and uses thereof  
(71) LUMICKS CA Holding B.V.  
(74) ir. A. Blokland c.s.  
(72) Domenico Fasci  
(41) 06.07.2023  
(51) C08F 220/06  
C08F 220/14  
C08F 220/20  
C08F 220/18  
C08F 212/08  
(21) 2030434  
(22) 05.01.2022  
(54) METHOD FOR PREPARING HIGH-PERFORMANCE WATER-SOLUBLE ACRYLIC RESIN  
(71) Institute of Applied Chemistry, Jiangxi Academy of Sciences  
(74) ir. M.B. Plaggenborg  
(72) Fuqian Sun  
Lingling Wang  
Shihua Xie  
Guoping Zeng  
(41) 10.07.2023  
(51) C09D 191/00  
C09D 5/16  
(21) 2034851  
(22) 17.05.2023  
(54) Dry powder coating formula for preventing algae from breeding  
(71) Yueyian (Beijing) Technology Group Co., Ltd.  
(74) ir. W.J.J.M. Kempes  
(72) Yangqiu Li  
Yue Zhang  
(31) 2023103066758  
(32) 27.03.2023  
(33) China  
(51) C12G 3/024  
C12G 3/026  
(21) 2030414  
(22) 03.01.2022  
(54) FERMENTATION PRETREATMENT METHOD OF AUXILIARY MATERIALS FOR ALCOHOLIC DRINK MIXED WITH FRUIT JUICE  
(71) SHANXI UNIVERSITY OF CHINESE MEDICINE  
(74) ir. M.B. Plaggenborg  
(72) Junliang Wei  
Zhonghai Wei  
Caiping Bai  
Yunxia Wei  
(41) 07.07.2023  
(51) C12M 1/42  
C30B 29/06  
C30B 28/00  
C12M 1/12  
(21) 2030361  
(22) 30.12.2021  
(54) Three-dimensional electrodes in tissue engineering  
(71) Universiteit Twente  
(74) ir. H.A. Witmans c.s.  
(72) Cavit Eyövge  
Dirk Jonker  
Johan Willem Berenschot  
Niels Roelof Tas  
Arturo Susarrey Arce  
(41) 05.07.2023

- (51) C12N 1/20  
C12Q 1/24  
C12Q 1/04  
(21) 2031454  
(22) 30.03.2022  
(54) METHOD FOR EFFICIENT SEPARATION AND IDENTIFICATION OF AMMONIA-OXIDIZING BACTERIA IN MULBERRY FIELD SOIL  
(71) Institute of Economic Crops, Hubei Academy of Agricultural Sciences  
(74) ir. M.B. Plaggenborg  
(72) Rongli Mo  
Xingming Hu  
Cheng Zhang  
Cui Yu  
Wen Deng  
Zhixian Zhu  
Zhaoxia Dong  
Die Hu  
Yong Li  
(41) 05.07.2023  
(31) 202111651741.2  
(32) 30.12.2021  
(33) China
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- (51) C12N 15/86  
C12N 15/113  
C12N 7/01  
C12N 5/0775  
C12N 5/10  
(21) 2030366  
(22) 30.12.2021  
(54) CONSTRUCTION METHOD OF FUNCTIONAL EXOSOME FOR EFFICIENTLY LOADING SPECIFIC MIRNAS  
(71) Chinese PLA General Hospital  
(74) ir. W.J.J.M. Kempes  
(72) Wenzhi Hu  
Rungong Yang  
Qiankun Li  
Cuiping Zhang  
Xiaobing Fu  
Kui Ma  
(41) 06.07.2023
- 
- (51) C22C 38/06  
C22C 38/54  
C21D 8/02  
C22C 38/04  
C22C 38/46  
C22C 38/44  
B21C 37/02  
C22C 33/04  
C22C 38/02  
C22C 38/48  
(21) 2030436  
(22) 05.01.2022  
(54) HIGH-ALUMINUM FERRITE HEAT-RESISTANT STEEL AND PREPARATION METHOD THEREOF  
(71) Tianjin University of Technology and Education  
(74) ir. M.B. Plaggenborg  
(72) Min Li  
Xiaohu Deng  
Dong Guo  
Maomao Lin  
Zhoude Qu
- 
- (41) 10.07.2023  
(51) C25D 13/22  
C25D 13/12  
B23K 26/21  
(21) 2032954  
(22) 05.09.2022  
(54) ELECTROPHORESIS-ASSISTED LASER STRENGTHENING METHOD AND DEVICE FOR STEEL SAW SURFACE  
(71) Guangdong Polytechnic Normal University  
(74) ir. M.B. Plaggenborg  
(72) Li Zhou  
Huazhuo Liang  
Zan Wang  
Junfeng He  
(31) 202210019344 .1  
(32) 07.01.2022  
(33) China
- 
- (51) D21H 11/00  
(21) 2030412  
(22) 03.01.2022  
(54) NANOMETER CONDUCTIVE PAPER, PREPARATION METHOD THEREOF, AND CAPACITOR  
(71) Huagong Liyan (Guangdong) New Material Technology Co., Ltd.  
SOUTH CHINA UNIVERSITY OF TECHNOLOGY  
(74) ir. M.B. Plaggenborg  
(72) Kaili Zhang  
Guangxue Chen  
Linyi Chen  
Zihan Jiang  
Haozhi Chen  
Shulin Zhang
- 
- (51) E02B 3/06  
A01K 61/75  
A01G 31/02  
(21) 2030409  
(22) 03.01.2022  
(54) NOVEL COMBINED ECOLOGICAL SEAWALL STRUCTURE AND MANUFACTURING METHOD THEREOF  
(71) Hohai University  
(74) ir. M.B. Plaggenborg  
(72) Junhao Tu  
Huanyu Zhong  
Haolang Liu  
Zhen Wang  
Aifeng Tao  
Haiming Zhang  
Shuya Xie  
(41) 07.07.2023
- 
- (51) E02D 11/00  
E02D 7/18  
E02D 5/04  
E02D 9/02  
(21) 2030443  
(22) 06.01.2022  
(54) Vibratory pile driving apparatus  
(71) Dieseko Group B.V.  
(74) ir. J.C. Volmer c.s.  
(72) Timo Olivier van Dongen  
Dirk Smulders  
(41) 11.07.2023
- 
- (51) E02D 17/20  
E02B 3/14  
(21) 2030401  
(22) 03.01.2022  
(54) CAST-IN-PLACE GREENING CONCRETE WITH BOTTOM COLUMNS AND SURFACE HOLES  
(71) Jiangsu Jiuding Greening Concrete Co., Ltd.  
(74) ir. W.J.J.M. Kempes  
(72) Ren Li
- 
- (51) E03F 1/00  
(21) 2032307  
(22) 28.06.2022  
(54) PURELY-MECHANICAL, NON-ELECTRONIC CONTROL, AND SINGLE-BODY VACUUM TOILET SYSTEM  
(71) HangZhou Dianzi University  
(74) dr. R.C. van Duijvenbode c.s.  
(72) Jiayu Lian  
Linxuan Cai  
Jing Xu  
Haozhe Lin  
Yuan Chen  
Yihong Liao  
Jiadi Lian  
(41) 06.07.2023  
(31) 202111655438.X  
(32) 31.12.2021  
(33) China
- 
- (51) E04C 3/29  
(21) 2030374  
(22) 30.12.2021  
(54) BOX TYPE BAMBOO-CONCRETE COMPOSITE BEAM  
(71) Bengbu University  
Anhui University of Finance and Economics  
(74) ir. M.B. Plaggenborg  
(72) Zhiyuan Wang  
Chuanhu Wang  
Lingling Chen  
Heng Zhang  
(41) 06.07.2023
- 
- (51) E04F 13/08  
(21) 2030441  
(22) 06.01.2022  
(54) Fastening assembly for fastening a plurality of façade panels to the face of a building  
(71) Studio Solarix B.V.  
(74) ir. A. Blokland c.s.  
(72) Reinier Helmig Bosch  
Oscar van der Voort
- 
- (51) E21C 37/00  
E21D 11/05  
E21D 15/44  
(21) 2030437  
(22) 05.01.2022  
(54) SUPPORT-SPALLATION INTEGRATED SYSTEM FOR PREVENTING DAMAGE OF SURROUNDING ROCK OF ROADWAY BY ROCK BURST  
(71) LIAONING TECHNICAL UNIVERSITY  
(74) ir. M.B. Plaggenborg  
(72) Yi Zhou  
Jiaqi Xue

Jiacheng Wu Baixin Jia Tianci Wang Shaohong Wu Kaixing Wang (41) 10.07.2023	(54) VISUAL COLORIMETRIC TEST METHOD OF AMINOTRIAZOLE (71) Changsha University of Science & Technology (74) ir. M.B. Plaggenborg (72) Zhihe Qing Ronghua Yang Yunan Li (41) 10.07.2023 (51) G01N 21/76 (21) 2030373 (22) 30.12.2021 (54) CHEMILUMINESCENCE TECHNOLOGY FOR DETECTING HYDROXYL RADICAL (71) Tobacco Research Institute of Chinese Academy of Agricultural Sciences (Qingzhou Tobacco Research Institute of China National Tobacco Company) Enshi Branch of Hubei Tobacco Company (74) ir. M.B. Plaggenborg (72) Bikun Xiang Jianqiang Deng Dabin Wang Rui Wang Guixing Meng Yong Huang Yang Ning Honghua Chen Xiaohong Ren Guang Huo (41) 06.07.2023 (51) G01N 21/84 (21) 2031150 (22) 03.03.2022 (54) METHOD FOR IDENTIFYING WALNUT DISEASE RESISTANCE THROUGH WALNUT LEAF STOMATAL DENSITY (71) Research Institute of Forestry Chinese Academy of Forestry Liaoning Institute of Economic Forestry (74) drs. C.M.A. Quintelier (72) Youchao He Junpei Zhang Feng Liu Qingguo Ma Yonghong Gong Dongsheng Li Baojun Zhao Dong Pei Hui Qu (31) 202111664286.X (32) 31.12.2021 (33) China (51) G01N 33/24 (21) 2030379 (22) 31.12.2021 (54) NOVEL AERATION ZONE LEACHING EXPERIMENTAL DEVICE (71) Chinese Academy of Geological Sciences (74) ir. W.J.J.M. Kempes (72) Yang Li Chaobin Guo Kai Liu Yingchao Liu Jing Wang	Yaoyao Zhang Zhenhao Xu Guozhang Xing Liping Du Shanshan Wang (41) 07.07.2023 (51) G01N 33/487 B01L 3/00 (21) 2030378 (22) 31.12.2021 (54) Selecting forces for means and methods involving cellular avidity (71) LUMICKS CA Holding B.V. (74) ir. A. Blokland c.s. (72) Trillian Ashley Gregg Domenico Fasci (51) G01N 33/487 B01L 3/00 (21) 2030386 (22) 31.12.2021 (54) Methods for identifying receptors and cellular avidities (71) LUMICKS CA Holding B.V. (74) ir. A. Blokland c.s. (72) Marinus Theodorus Johannes van Loenhout (41) 07.07.2023 (51) G01N 33/487 G01N 33/483 G01N 15/00 (21) 2030387 (22) 31.12.2021 (54) Means and methods for modulating cellular avidity with receptors (71) LUMICKS CA Holding B.V. (74) ir. A. Blokland c.s. (72) Serena Alba Davoli Zhongjie Yu Rui Pedro Rijo da Costa Carvalho (41) 06.07.2023 (51) G01S 7/41 (21) 2030447 (22) 06.01.2022 (54) METHOD FOR QUICKLY OBTAINING THREE-DIMENSIONAL ISO-SURFACE OF RADAR REFLECTIVITY DATA (71) Nanjing University of Information Science and Technology (74) ir. W.J.J.M. Kempes (72) Guojie Wang Shuoben Bi Mingyue Lu Jinzhong Min (41) 11.07.2023 (51) G05G 5/05 F16H 59/10 A63F 13/245 G05G 1/04 A63F 13/803 (21) 2030395 (22) 03.01.2022 (54) SHIFTER SIMULATOR SYSTEM, SIMULATOR PROVIDED THEREWITH AND METHOD FOR OPERATING (71) Heusinkveld Engineering B.V. (74) dr. ir. G.J.C. Verdijck c.s. (72) Niels Heusinkveld
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(51) G06F 30/20	(54) Plasma-enhanced Chemical Vapour Deposition Apparatus
(21) 2030421	(71) LeydenJar Technologies B.V.
(22) 04.01.2022	(74) dr. A. Krebs
(54) NOVEL TYPHOON FIELD MODEL FOR STORM SURGE SIMULATION	(72) Pavel Kudlacek
(71) Zhejiang University	Arjen Didden
(74) ir. W.J.J.M. Kempes	(41) 06.07.2023
(72) Zhilin Sun	(51) H01L 21/56
Wengang Xiang	H01L 23/31
Zongyu Li	H01L 21/60
Kaixuan Ding	H01L 25/065
(51) G06N 3/08	H01L 23/538
H04N 21/43	H01L 23/498
H04N 21/462	(21) 2034818
(21) 2033903	(22) 10.11.2021
(22) 03.01.2023	(54) MICROELECTRONIC STRUCTURES INCLUDING BRIDGES
(54) IMPLEMENTATIONS AND METHODS FOR USING MOBILE DEVICES TO COMMUNICATE WITH A NEURAL NETWORK SEMICONDUCTOR	(62) 2029703 (10.11.2021)
(71) Uniquify, Inc.	(71) Intel Corporation
(74) ir. A. Blokland c.s.	(74) dr. A. Krebs
(72) Joshua Jungho Lee	(72) Sairam Agraharam
Samjung Kim	Nitin A. Deshpande
(31) 63/296,366	Omkar G. Karhade
(32) 04.01.2022	Xiaoxuan Sun
(33) United States of America	(31) 17/129,135
(51) G06Q 30/00	(32) 21.12.2020
G09F 3/00	(33) United States of America
G06Q 10/08	(51) H01L 39/16
(21) 2030397	H01L 41/16
(22) 03.01.2022	(21) 2030396
(54) Werkwijze voor het classificeren van gebruikte en ongebruikte waar	(22) 03.01.2022
(71) Retourvignet B.V.	(54) Persistent current switch
(74) ir. B.J. 't Jong	(71) Technische Universiteit Delft
(72) Wolter Hoekman	(74) ir. A.R. Aalbers
(51) G08G 1/048	(72) Salahuddin Nur
G08G 1/01	Ryoichi Ishihara
G08G 1/095	Jaime Oscar Tenorio Pearl
G08G 1/0967	(41) 07.07.2023
G08G 1/09	(51) H02N 3/00
(21) 2030405	(21) 2030410
(22) 03.01.2022	(22) 03.01.2022
(54) INTELLIGENT TRAFFIC DEVICE BASED ON INTERNET OF THINGS, AND MANAGEMENT SYSTEM	(54) NEW TYPE OF DC GENERATOR BASED ON SEMICONDUCTOR/POLAR LIQUID/SEMICONDUCTOR DYNAMIC DIODE AND PREPARATION METHOD THEREOF
(71) Shaoguan University	(71) ZHEJIANG UNIVERSITY
(74) ir. W.J.J.M. Kempes	(74) ir. M.B. Plaggenborg
(72) Jingguo Dai	(72) Zunshan Yang
Minsong Li	Xutao Yu
(41) 07.07.2023	Shisheng Lin
(51) H01H 9/06	Yanghua Lu
(21) 2030400	Yanfei Yan
(22) 03.01.2022	(41) 07.07.2023
(54) SUPER-MINIATURE DUSTPROOF DIRECT-CURRENT TRIGGER SIGNAL SWITCH	
(71) ZHEJIANG JIABEN ELECTRONICS CO., LTD.	
(74) ir. W.J.J.M. Kempes	
(72) Shenglong Ni	
(41) 07.07.2023	
(51) H01J 37/32	
(21) 2030360	
(22) 30.12.2021	

## 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 13/08 A01B 13/10	(73) Jiangxi Academy of Agricultural Sciences Institute of Agricultural Engineering	(54) PROCESS FOR PRODUCING SUBSTANTIALLY LACTOSE FREE MILK, AND SUBSTANTIALLY LACTOSE FREE MILK OBTAINABLE BY SAID PROCESS
(11) 2033205 (47) 10.07.2023 (22) 30.09.2022	(72) Xianhua Dong Licai Chen Kangjun Wang Shifu Shu Luofa Wu	(73) Ausnutria B.V. (72) Mattia Boiani (74) dr. ir. G.J.C. Verdijck c.s.
(54) OPTIMIZATION METHOD FOR SUBSOILING SHOVEL	(74) ir. H.Th. van den Heuvel c.s.	(74) dr. ir. G.J.C. Verdijck c.s.
(73) QINGDAO AGRICULTURAL UNIVERSITY	(31) 2022108298390 (32) 15.07.2022 (33) China	(51) A23F 3/06 A23F 3/08
(72) Xinwei Liu Zengqiang Li Xiangyun Song Dejie Cui Jingkuan Wang Jingde Wang Xiaoguang Zhang Haiyan Du	(51) A01G 2/32 A01G 2/35 (11) 2031349 (47) 05.07.2023 (22) 21.03.2022	(11) 2030562 (47) 07.07.2023 (22) 17.01.2022
(74) ir. H.Th. van den Heuvel c.s.	(54) ROOTSTOCK-SCION MATCHED GRAFTING METHOD, APPARATUS AND GRAFTING ROBOT FOR MELON SEEDLINGS	(54) INTELLIGENT TEA LEAF SPREADING, WITHERING AND FERMENTING SYSTEM
(51) A01B 13/08 A01B 13/10	(73) Intelligent Equipment Technology Research Center of Beijing Academy of Agriculture and Forestry	(73) TEA RESEARCH INSTITUTE, CHINESE ACADEMY OF AGRICULTURAL SCIENCES
(11) 2033168 (47) 10.07.2023 (22) 28.09.2022	(72) Wenqian Huang Wenzhong Guo Dongdong Jia Xiaoming Wei Kai Jiang	(72) Rentian Zhang Zhongyuan Liu Ting An Muzhe Wang Yang Li Chunwang Dong Xuesong Zhu Chongshan Yang
(54) DESIGN METHOD FOR DOUBLE-WING SUBSOILING SHOVEL BASED ON TOPOLOGY OPTIMIZATION	(74) ir. M.B. Plaggenborg	(74) ir. M.B. Plaggenborg
(73) QINGDAO AGRICULTURAL UNIVERSITY	(31) 202111656817.0 (32) 31.12.2021 (33) China	(31) 202111651806.3 (32) 30.12.2021 (33) China
(72) Haiyan Du Dejie Cui Xiaoguang Zhang Jingde Wang Haoquan Wang Zengqiang Li Xiangyun Song Xinwei Liu	(51) A01N 63/30 (11) 2030446 (47) 11.07.2023 (22) 06.01.2022	(51) A23K 30/18 A23K 20/22 A23K 10/37 A23K 50/15
(74) ir. H.Th. van den Heuvel c.s.	(54) BIOCONTROL STRAIN AGENT FOR CONTROLLING MELOIDOGYNE SPP. AND USE THEREOF	(11) 2030382 (47) 07.07.2023 (22) 31.12.2021
(51) A01C 3/00 C02F 1/52	(73) Shanxi Agricultural University Shanxi Shenyu Huinong Technology Co., Ltd.	(54) HYBRID BROUSSONETIA PAPYRIFERA SILAGE, PREPARATION METHOD OF HYBRID BROUSSONETIA PAPYRIFERA SILAGE, COARSE FEED AND RUMINANT FEED
(11) 2030422 (47) 07.07.2023 (22) 04.01.2022	(72) Keyong Cui Bin Du Yumei Xu Jianming Wang Bin Yang Ping Lu Hui Wang Hailong Dong Zuogang Zhang Chunzhen Cui Lin Wang	(73) Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences Institute of Biological Resources, Jiangxi Academy of Sciences
(54) SYSTEEM VOOR HET REDUCEREN VAN DE VORMING VAN AMMONIAK IN EEN MESTRUIJTE EN WERKWIJZE DAARVOOR	(74) ir. W.J.J.M. Kempes	(72) Jie Liu Jianping Liu Shaoshi Ji Ruxia Wang Zhihong Zhang Chunhua Yang Jingsheng Wang Dongsheng Wang Li He Jiangli Huang Ping Sheng
(73) Farmin B.V. A. Huisman Holding B.V.	(51) A23C 9/142 A23C 9/12 (11) 2030385 (47) 06.07.2023 (22) 31.12.2021	(74) ir. W.J.J.M. Kempes
(72) Andries Johannes Huisman (74) dr. ir. G.J.C. Verdijck c.s.		
(51) A01F 11/06 A01F 7/04 A01F 12/22		
(11) 2033167 (47) 10.07.2023 (22) 28.09.2022		
(54) LOW-LOSS-RATE THRESHING DEVICE OF COMBINE HARVESTER		



(51) A23K 50/90	(33) Netherlands	A61K 36/73
A23K 10/30	(51) A61K 31/496	(11) 2031296
A23K 20/111	A61P 1/04	(47) 05.07.2023
A23K 10/12	C07D 405/06	(22) 15.03.2022
A23K 20/163	(11) 2031294	(54) APPLICATION OF ARONIA
A23K 20/174	(47) 05.07.2023	MELANOCARPA LEAF POLYPHENOL
(11) 2030413	(22) 15.03.2022	EXTRACT IN PREPARING
(47) 07.07.2023	(54) PREPARATION METHOD AND	ANTIDEPRESSANTS
(22) 03.01.2022	APPLICATION OF GENISTEIN	(73) Shandong University of Technology
(54) ARTIFICIAL FEED FOR GRAPHOLITA	DERIVATIVE CONTAINING	(72) Guihua Sheng
MOLESTA AND PREPARATION	BENZYLPIPERAZINE	Quancheng Zhou
METHOD THEREOF	(73) Shandong University of Technology	Wei Ji
(73) Shanxi Agricultural University	(72) Wei Ji	Xijun Nan
(72) Weina Kong	Quancheng Zhou	Jiayi Li
Jie Li	Guihua Sheng	Honglei Wang
Yi Wang	Jiayi Li	(74) ir. M.B. Plaggenborg
Xiaohan Chai	Honglei Wang	(31) 202111653865.4
Yongfu Guo	Xijun Nan	(32) 30.12.2021
Xuefeng Hu	(74) ir. M.B. Plaggenborg	(33) China
Ruiyan Ma	(31) 202111653863.5	(51) B01D 3/14
(74) ir. M.B. Plaggenborg	(32) 30.12.2021	(11) 2030411
(51) A23L 13/60	(33) China	(47) 07.07.2023
A23L 13/40	(51) A61K 31/7048	(22) 03.01.2022
A23L 33/10	A61P 25/24	(54) DEVICE AND PROCESS FOR
(11) 2030928	A61K 31/365	SEPARATING N-BUTANE-ISOBUTANE-
(47) 10.07.2023	(11) 2030365	BUTENE BY DIVIDING-WALL
(22) 14.02.2022	(47) 07.07.2023	EXTRACTIVE DISTILLATION
(54) COMPOSITE FRUIT AND VEGETABLE	(22) 30.12.2021	(73) YANTAI UNIVERSITY
LOW-FAT SAUSAGES AND A	(54) USE OF ARCTIIN AND ARCTIGENIN IN	(72) Wenhua Wang
PREPARATION METHOD THEREOF	PREPARATION OF ANTIDEPRESSANT	Xiaoping Chen
(73) Fujian Agriculture and Forestry University	DRUG AND ANTIDEPRESSANT DRUG	Hui Tian
(72) Zhiwei Huang	(73) Yanbian University	Wanzhong Ren
Baodong Zheng	(72) Lianxun Piao	Qi Zhao
Qi Wang	Xuejun Jin	Wenyou Xu
Yuting Tian	Xiang Xu	(74) ir. M.B. Plaggenborg
Yafeng Zheng	(74) ir. W.J.J.M. Kempes	(51) B01D 46/02
(74) ir. M.B. Plaggenborg	(51) A61L 17/08	B01D 46/04
(31) 202210004320.9	A61L 17/12	B01D 46/06
(32) 05.01.2022	A61L 17/00	B01D 46/48
(33) China	A61L 17/14	B01D 46/00
(51) A23L 33/105	(11) 2030370	(11) 2030430
A23L 19/00	(47) 07.07.2023	(47) 10.07.2023
A23L 19/10	(22) 30.12.2021	(22) 05.01.2022
A23L 21/25	(54) PREPARATION METHOD FOR	(54) NOVEL FEED DUST REMOVAL DEVICE
(11) 2030406	ABSORBABLE SURGICAL SUTURE	(73) GUANGDONG EVERGREEN FEED
(47) 07.07.2023	WITH HIGH BIOCOMPATIBILITY AND	INDUSTRY CO., LTD
(22) 03.01.2022	HIGH TENACITY	(72) Limei Zhao
(54) COMPOSITE HONEY PASTE FOR	(73) SHANDONG BODA MEDICAL	Zhuoduo Wang
DISPELLING EFFECTS OF ALCOHOL	PRODUCTS CO., LTD.	Haitao Zhang
AND PREPARATION METHOD	(72) Yufu Zhang	Yongjie Jiang
THEREOF	Hongyu Gao	Xujuan Zhang
(73) SHANXI UNIVERSITY OF CHINESE	Shuo Zhang	Baofa Shi
MEDICINE	(74) ir. M.B. Plaggenborg	(74) ir. W.J.J.M. Kempes
(72) Wei Zhang	(51) A61M 1/36	(51) B01L 9/02
Gaoting Hao	A61M 39/28	G09B 5/02
Nan Qin	(11) 2030384	(11) 2030448
(74) ir. M.B. Plaggenborg	(47) 07.07.2023	(47) 11.07.2023
(51) A47F 3/04	(22) 31.12.2021	(22) 06.01.2022
(11) 2032359	(54) BLOOD TUBING SYSTEMS FOR	(54) INTERNET-OF-THINGS-BASED
(47) 07.07.2023	HEMODIALYSIS	EXPERIMENT PLATFORM SPECIAL
(22) 04.07.2022	(73) Ying Tan Rong Jia Group Medical	FOR TEACHING LABORATORY
(54) Koelmeubel	Instruments Co., Ltd.	(73) Dalian University
(73) Smeva Group B.V	(72) Xiaorong Xia	(72) Changqing Ji
(72) Patrick Albert Lucas	Jinjin Wei	Jing Wang
Johannes Antonius Hubertina van Gils	Xinmin Cao	(74) ir. W.J.J.M. Kempes
(74) drs. A.A. Jilderda	(74) ir. W.J.J.M. Kempes	(51) B02C 23/08
(31) 2028619	(51) A61P 25/24	B02C 23/18
(32) 02.07.2021		(11) 2030381

(47) 07.07.2023	(47) 05.07.2023	(51) B27N 3/08
(22) 31.12.2021	(22) 30.12.2021	B32B 23/08
(54) ORE CRUSHER	(54) METHOD FOR MANUFACTURING	E04C 2/24
(73) Chinese Academy of Geological Sciences	LAMELLAS FOR A LAMINATION	(11) 2028063
(72) Yaoyao Zhang	(73) Robert Bosch GmbH	(47) 07.07.2023
Tao Wang	(72) Robert van den Heuvel	(22) 24.04.2021
Kai Liu	Peter Nouws	(54) CONSTRUCTION AND BUILDING
Kemo Jin	Arjen Brandsma	ELEMENT
Yongchao Wang	Gert Jansen	(73) PERITO s.r.o.
Zenan Zhao	(74) ir. G.A.J.M. Plevier	(72) Josef Koci
Xuejun Zhang	(51) B22F 1/145	Milan Valásek
Xiaobo Zhang	B22F 3/14	(74) ir. M.B. Plaggenborg
Shanshan Wang	C22C 29/06	(31) PUV2020-37521
Xiaofei Li	C22C 1/05	(32) 07.05.2020
(74) ir. W.J.J.M. Kempes	(11) 2030424	(33) Czech Republic
(51) B06B 1/02	(47) 07.07.2023	(51) B32B 17/06
B06B 3/00	(22) 04.01.2022	D06N 3/00
B08B 3/12	(54) METHOD FOR PREPARING HIGH-	D06N 3/06
(11) 2032397	STRENGTH HARD ALLOY WITH GOOD	B32B 17/04
(47) 06.07.2023	RED HARDNESS	(11) 2030445
(22) 06.07.2022	(73) Heyuan Puyi Cemented Carbide Plant	(47) 11.07.2023
(54) ULTRASONIC GENERATION DEVICE	Limited Company	(22) 06.01.2022
FOR WATER JET CLEANING	(72) Wangmei Li	(54) PVC BACKING SLURRY OF MODULAR
(73) Jiangsu Huazhen Aviation Technology Co., Ltd.	Guoan He	CARPET AND PRODUCTION
(72) Fanchao Yang	(74) ir. M.B. Plaggenborg	PROCESS THEREOF
(74) ir. W.J.J.M. Kempes	(51) B24C 7/00	(73) SHANDONG UNIQUES TECH.CO.,LTD
(31) 202111673846.8	B24C 3/22	(72) Xiao Guo
(32) 31.12.2021	B24C 5/02	Lanxi Zhong
(33) China	B24C 3/06	Yanqing Shao
(51) B08B 9/04	B24C 11/00	(74) ir. W.J.J.M. Kempes
(11) 2026293	B24C 1/04	(51) B63B 19/06
(47) 07.07.2023	B25J 11/00	B63B 19/04
(22) 19.08.2020	(11) 2032480	B63B 19/14
(54) PIPE CLEANING DEVICE	(47) 10.07.2023	B63B 19/16
(73) NORTHWEST INSTITUTE OF ECO-	(22) 13.07.2022	(11) 2033116
ENVIRONMENT AND RESOURCES,	(54) ABRASIVE WATER JET FLEXIBLE	(47) 07.07.2023
CHINESE ACADEMY OF SCIENCES	INTELLIGENT SIX-AXIS CUTTING	(22) 23.09.2022
(72) Yapeng Cao	PLATFORM 3D CURVED SURFACE	(54) WATERAFLEIDINRICHTING VOOR EEN
Guoyu Li	CUTTING PROCESS	SCHEEPSVENSTER
Zhiwei Zhou	(73) Jiangsu Huazhen Aviation Technology	(73) Robert Meijssen
Gang Wu	Co., Ltd.	(72) Robert Meijssen
Xiaohong Wu	(72) Fanchao Yang	(74) ir. F.A. Geurts c.s.
(74) ir. J.C. Volmer c.s.	(74) ir. W.J.J.M. Kempes	(31) 10 2021 126 582.7
(31) 202010137692.X	(31) 202210008789.X	(32) 13.10.2021
(32) 03.03.2020	(32) 05.01.2022	(33) Germany
(33) China	(33) China	(51) B63B 22/00
(51) B21D 28/10	(51) B26D 7/27	(11) 2030419
B21D 28/22	B26D 7/00	(47) 07.07.2023
C21D 8/12	B24B 55/08	(22) 04.01.2022
H02K 15/02	B24B 21/00	(54) HIGH-PRECISION SUBMERSIBLE
(11) 2030372	B24B 21/18	BUOY ARRAY SYSTEM FOR
(47) 05.07.2023	B24B 21/20	REALIZING MARINE DATA AREA
(22) 30.12.2021	B26D 1/18	MONITORING
(54) METHOD FOR MANUFACTURING	(11) 2030408	(73) First Institute of Oceanography, Ministry
LAMELLAS FOR A LAMINATION	(47) 07.07.2023	of Natural Resources
(73) Robert Bosch GmbH	(22) 03.01.2022	Yellow Sea Fisheries Research Institute,
(72) Arjen Brandsma	(54) MULTI-FUNCTIONAL GRINDING AND	Chinese Academy of Fishery Sciences
Gert Jansen	CUTTING MACHINE FOR RUBBER	(72) Xiaolong Zhao
Robert van den Heuvel	TRANSMISSION BELT	Zhiping Zhang
Peter Nouws	(73) QINGDAO UNIVERSITY OF SCIENCE	Haoran Zhang
Oleg Alexandrov	AND TECHNOLOGY	Xuejun Xiong
(74) ir. G.A.J.M. Plevier	(72) Jing Xian	(74) ir. W.J.J.M. Kempes
(51) B21D 28/10	Lei Wang	(51) B63B 27/14
B21D 28/22	Weifeng Zhang	(11) 2030420
H02K 15/02	Fuxia Zhang	(47) 07.07.2023
(11) 2030371	Huanyi Liu	(22) 04.01.2022
	Guoyou Zhu	(54) FULLY-AUTOMATIC FOLDED
	(74) ir. M.B. Plaggenborg	REVOLVING GANGWAY FOR SHIPS

(73) Yellow Sea Fisheries Research Institute, Chinese Academy of Fishery Sciences First Institute of Oceanography, Ministry of Natural Resources	Hongli Chen (74) ir. M.B. Plaggenborg	C04B 35/22 C04B 35/622
(72) Qingfeng Hua Xuejun Xiong Lisong Wang Haoran Zhang Zhiping Zhang Xin Li	(51) C02F 1/461 (11) 2030939 (47) 11.07.2023 (22) 15.02.2022 (54) NICKEL-IRON BIMETALLIC THREE- DIMENSIONAL ELECTRODE PARTICLE FILLER AND PREPARATION METHOD AND APPLICATION THEREOF	(11) 2030388 (47) 07.07.2023 (22) 31.12.2021 (54) MICROWAVE DIELECTRIC CERAMIC MATERIAL WITH LOW DIELECTRIC CONSTANT AND LOW DENSITY AND PREPARATION METHOD THEREOF
(74) ir. W.J.J.M. Kempes	(73) Jilin Jianzhu University	(73) Guilin University of Technology
(51) B82Y 15/00 B82Y 40/00 A61B 5/02 G01L 1/18	(72) Suiyi Zhu Yingzi Lin Siwen Li Gen Liu	(72) Xiuli Chen Huanfu Zhou Jin Huang Hailin Zhang
(11) 2030403 (47) 07.07.2023 (22) 03.01.2022 (54) PRESSURE SENSOR BASED ON CONDUCTIVE POLYMER CORRUGATED COATING AND APPLICATION THEREOF	(74) ir. W.J.J.M. Kempes (31) 202111060016.8 (32) 10.09.2021 (33) China	(74) ir. M.B. Plaggenborg (51) C04B 35/626 C04B 33/135 (11) 2030357 (47) 06.07.2023 (22) 30.12.2021 (54) Use of mineral waste in the production of ceramics
(73) Shandong university Shandong Taishan Sporting Goods Engineering Technology Research Center Co., Ltd. Shandong Wanyi Sports Health Service Co., Ltd. Shandong Sport University Taishan Sports Industry Group Co.,LTD Laoling Taishan Artificial Lawn Industry Co., Ltd. Hexin International Sporting Goods Testing Center Co., Ltd.	(51) C02F 9/00 (11) 2030369 (47) 06.07.2023 (22) 30.12.2021 (54) SHALE GAS FRACTURING FLOW- BACK FLUID TREATMENT SYSTEM AND WORKING METHOD BASED ON FORWARD OSMOSIS TECHNOLOGY	(73) Vitrifex Ceramic Glazes (72) Jan Berend Baas (74) dr. R.C. van Duijvenbode c.s.
(72) Xuewen Tian Dewei Mao Mengjiao Geng Junxian Yang Ruilin Zhang Xianliang Wang Ji Ma Jie Chen Shanshan Ding Wei Wang Kaili Shi Lele Han Shihao Zhang Jian Li Zhen'guo Shi Yu Gu Hongyan Li Jianning Cai Wenhao Yi Peiming Xu	(73) Shandong Jianzhu University (72) Luopeng Yang Yunxia Qu Linhua Zhang (74) ir. M.B. Plaggenborg	(51) C05G 3/00 (11) 2030440 (47) 10.07.2023 (22) 05.01.2022 (54) APPLICATION OF POLY-Y-GLUTAMIC ACID AS FERTILIZER ABSORPTION PROMOTER IN AGRICULTURAL PLANTING
(74) ir. W.J.J.M. Kempes	(51) C04B 7/21 C04B 7/38	(73) Wuhan Guanghua Times Biotechnology Co., Ltd. (72) Wei Peng Wei Song Qiang Li Binzhou Yu Qingzhuo Zeng
(51) C01B 13/14 B82Y 30/00	(11) 2030368 (47) 06.07.2023 (22) 30.12.2021 (54) MIXING AND GRINDING PREPARATION METHOD OF STEEL SLAG-MINERAL SLAG-GYPSUM COMPOSITE CEMENTING MATERIAL	(74) ir. M.B. Plaggenborg
(11) 2030439 (47) 10.07.2023 (22) 05.01.2022 (54) TRANSITION METAL OXIDE NANOMATERIAL, PREPARATION METHOD AND USE THEREOF	(73) She County Qingzhang Cement Manufacturing Co., Ltd. University of Science and Technology Beijing (72) Duiheng Yang Zhijiang Yang Haojing Ba Zhili Zhao Wen Ni Guoping Wen (74) ir. M.B. Plaggenborg	(51) C05G 3/80 (11) 2033179 (47) 10.07.2023 (22) 29.09.2022 (54) Method for improving acidified soil in orchard by utilizing biomass charcoal
(73) Hebei Normal University for Nationalities	(72) Junqiang Ma	(73) Qingdao Agricultural University
(72) Xing Yang Hengqiang Zhang Zhaokun Xuan Qiong Wu	(74) ir. M.B. Plaggenborg (51) C04B 35/20	(72) Xiangyun Song Dejie Cui Zengqiang Li Jiani Ma Xinwei Liu Xiaoguang Zhang Haiyan Du (74) ir. H.A. Witmans c.s.
	(54) ALUMINIUM-SILICON-BASED POROUS CERAMIC COMPONENT FOR METAL LIQUID PURIFIER AND PREPARATION METHOD OF ALUMINIUM-SILICON-BASED POROUS CERAMIC COMPONENT	(51) C07C 69/54 (11) 2030435 (47) 10.07.2023 (22) 05.01.2022 (54) A CLEAN PRODUCTION METHOD OF DIPENTAERYTHRITOL HEXAACRYLATE
	(73) Luoyang Kechuang New Materials Co., Ltd.	(73) Jiangsu Litian Technology Co., Ltd.
	(72) Junqiang Ma	(72) Jianfei Hu Pengzhi Fu Huaixiang Ma Lili Zhang

- (74) ir. M.B. Plaggenborg  
 (51) C07K 5/10  
 C12P 21/06  
 C07K 4/10  
 A61P 9/12  
 A61K 38/07  
 (11) 2031295  
 (47) 05.07.2023  
 (22) 15.03.2022  
 (54) PREPARATION METHOD OF PEA PROTEIN TETRAPEPTIDE AND ITS APPLICATION IN ANTIHYPERTENSIVE FIELDS  
 (73) Shandong University of Technology  
 (72) Honglei Wang  
 Quancheng Zhou  
 Wei Ji  
 Guihua Sheng  
 Jiayi Li  
 Xijun Nan  
 (74) ir. M.B. Plaggenborg  
 (31) 202111653861.6  
 (32) 30.12.2021  
 (33) China
- 
- (51) C07K 14/415  
 C12P 21/06  
 A61K 38/01  
 A61P 9/12  
 (11) 2031293  
 (47) 05.07.2023  
 (22) 15.03.2022  
 (54) PREPARATION METHOD AND APPLICATION OF PEA PROTEIN ANTIHYPERTENSIVE PEPTIDE  
 (73) Shandong University of Technology  
 (72) Xijun Nan  
 Honglei Wang  
 Wei Ji  
 Guihua Sheng  
 Jiayi Li  
 Quancheng Zhou  
 (74) ir. M.B. Plaggenborg  
 (31) 202111657365.8  
 (32) 30.12.2021  
 (33) China
- 
- (51) C07K 14/78  
 C07K 14/00  
 C12N 5/0783  
 C12N 5/078  
 G01N 33/483  
 C07C 227/00  
 (11) 2030377  
 (47) 06.07.2023  
 (22) 31.12.2021  
 (54) Cell monolayer blocking agents and uses thereof  
 (73) LUMICKS CA Holding B.V.  
 (72) Domenico Fasci  
 (74) ir. A. Blokland c.s.
- 
- (51) C08F 220/06  
 C08F 220/14  
 C08F 220/20  
 C08F 220/18  
 C08F 212/08  
 (11) 2030434  
 (47) 10.07.2023  
 (22) 05.01.2022
- (54) METHOD FOR PREPARING HIGH-PERFORMANCE WATER-SOLUBLE ACRYLIC RESIN  
 (73) Institute of Applied Chemistry, Jiangxi Academy of Sciences  
 (72) Fuqian Sun  
 Lingling Wang  
 Shihua Xie  
 Guoping Zeng  
 (74) ir. M.B. Plaggenborg  
 (51) C08G 59/62  
 C08G 14/12  
 C09D 163/00  
 C09D 5/08  
 (11) 2031236  
 (47) 10.07.2023  
 (22) 10.03.2022  
 (54) TUNG OIL-BASED MODIFIED AMINE CURING AGENT AND PREPARATION METHOD AND USE THEREOF  
 (73) Institute of Chemical Industry of Forest Products, CAF  
 (72) Mei Li  
 Shouhai Li  
 Yan Zhang  
 Yao Chen  
 Haiyang Ding  
 Xiaohua Yang  
 Jinhua Zhu  
 Jianling Xia  
 (74) drs. C.M.A. Quintelier  
 (31) 202110377743.0  
 (32) 08.04.2021  
 (33) China
- 
- (51) C12G 3/024  
 C12G 3/026  
 (11) 2030414  
 (47) 07.07.2023  
 (22) 03.01.2022  
 (54) FERMENTATION PRETREATMENT METHOD OF AUXILIARY MATERIALS FOR ALCOHOLIC DRINK MIXED WITH FRUIT JUICE  
 (73) SHANXI UNIVERSITY OF CHINESE MEDICINE  
 (72) Junliang Wei  
 Zhonghai Wei  
 Caiping Bai  
 Yunxia Wei  
 (74) ir. M.B. Plaggenborg  
 (51) C12M 1/42  
 C30B 29/06  
 C30B 28/00  
 C12M 1/12  
 (11) 2030361  
 (47) 05.07.2023  
 (22) 30.12.2021  
 (54) Three-dimensional electrodes in tissue engineering  
 (73) Universiteit Twente  
 (72) Cavit Eyövge  
 Dirk Jonker  
 Johan Willem Berenschot  
 Niels Roelof Tas  
 Arturo Susarrey Arce  
 (74) ir. H.A. Witmans c.s.
- 
- (51) C12N 1/20  
 C12Q 1/24  
 (11) 2030692  
 (47) 07.07.2023
- C12Q 1/04  
 (11) 2031454  
 (47) 05.07.2023  
 (22) 30.03.2022  
 (54) METHOD FOR EFFICIENT SEPARATION AND IDENTIFICATION OF AMMONIA-OXIDIZING BACTERIA IN MULBERRY FIELD SOIL  
 (73) Institute of Economic Crops, Hubei Academy of Agricultural Sciences  
 (72) Rongli Mo  
 Xingming Hu  
 Cheng Zhang  
 Cui Yu  
 Wen Deng  
 Zhixian Zhu  
 Zhaoxia Dong  
 Die Hu  
 Yong Li  
 (74) ir. M.B. Plaggenborg  
 (31) 202111651741.2  
 (32) 30.12.2021  
 (33) China
- 
- (51) C12N 1/38  
 C12N 1/14  
 C12N 3/00  
 C12N 13/00  
 (11) 2030988  
 (47) 07.07.2023  
 (22) 17.02.2022  
 (54) Method for Improving Spore Production of Plant Fusarium Oxysporum with Nano-TiO2  
 (73) Zhejiang Academy of Agricultural Sciences  
 (72) Lianping Wang  
 Jun Wu  
 Hanrong Wang  
 Yunye Xie  
 Li Fang  
 (74) drs. C.M.A. Quintelier  
 (31) 202110557091.9  
 (32) 21.05.2021  
 (33) China
- 
- (51) C12N 15/86  
 C12N 15/113  
 C12N 7/01  
 C12N 5/0775  
 C12N 5/10  
 (11) 2030366  
 (47) 06.07.2023  
 (22) 30.12.2021  
 (54) CONSTRUCTION METHOD OF FUNCTIONAL EXOSOME FOR EFFICIENTLY LOADING SPECIFIC MIRNAS  
 (73) Chinese PLA General Hospital  
 (72) Wenzhi Hu  
 Rungong Yang  
 Qiankun Li  
 Cuiping Zhang  
 Xiaobing Fu  
 Kui Ma  
 (74) ir. W.J.J.M. Kempes  
 (51) C14C 3/00  
 C01B 39/02  
 (11) 2030692  
 (47) 07.07.2023

(22) 25.01.2022	Haiming Zhang	Chuanhu Wang
(54) Zeolite Particles	Shuya Xie	Lingling Chen
(73) PQ Silicas UK Limited	(74) ir. M.B. Plaggenborg	Heng Zhang
PQ Silicas BV	(51) E02D 5/34	(74) ir. M.B. Plaggenborg
(72) Moses Rathbun	E21B 21/12	(51) E04F 13/08
Simon Stebbing	(11) 2020423	(11) 2030441
Roger Janssen	(47) 07.07.2023	(47) 11.07.2023
(74) A. Rivière	(22) 12.02.2018	(22) 06.01.2022
(31) 2118809.9	(54) Funderen of verankeren door verbeterd	(54) Fastening assembly for fastening a
(32) 22.12.2021	inwendig spoelboren.	plurality of façade panels to the face of a
(33) United Kingdom	(73) Van Hattum en Blankevoort bv	building
(51) C22C 38/06	(72) Gerard van Zwieten	(73) Studio Solarix B.V.
C22C 38/54	(74) ir. J.H.W. Assendelft	(72) Reinier Helmig Bosch
C21D 8/02	(51) E02D 11/00	Oscar van der Voort
C22C 38/04	E02D 7/18	(74) ir. A. Blokland c.s.
C22C 38/46	E02D 5/04	(51) E21C 37/00
C22C 38/44	E02D 9/02	E21D 11/05
B21C 37/02	(11) 2030443	E21D 15/44
C22C 33/04	(47) 11.07.2023	(11) 2030437
C22C 38/02	(22) 06.01.2022	(47) 10.07.2023
C22C 38/48	(54) Vibratory pile driving apparatus	(22) 05.01.2022
(11) 2030436	(73) Dieseko Group B.V.	(54) SUPPORT-SPALLATION INTEGRATED
(47) 10.07.2023	(72) Timo Olivier van Dongen	SYSTEM FOR PREVENTING DAMAGE
(22) 05.01.2022	Dirk Smulders	OF SURROUNDING ROCK OF
(54) HIGH-ALUMINUM FERRITE	(74) ir. J.C. Volmer c.s.	ROADWAY BY ROCK BURST
HEAT-RESISTANT STEEL AND	(51) E02D 17/20	(73) LIAONING TECHNICAL UNIVERSITY
PREPARATION METHOD THEREOF	E02B 3/14	(72) Yi Zhou
(73) Tianjin University of Technology and	(11) 2030401	Jiaqi Xue
Education	(47) 07.07.2023	Jiacheng Wu
(72) Min Li	(22) 03.01.2022	Baoxin Jia
Xiaohu Deng	(54) CAST-IN-PLACE GREENING	Tianci Wang
Dong Guo	CONCRETE WITH BOTTOM COLUMNS	Shaohong Wu
Maomao Lin	AND SURFACE HOLES	Kaixing Wang
Zhoude Qu	(73) Jiangsu Jiuding Greening Concrete Co.,	(74) ir. M.B. Plaggenborg
(74) ir. M.B. Plaggenborg	Ltd.	(51) F02M 37/22
(51) D21H 11/00	(72) Ren Li	(11) 2030418
(11) 2030412	(74) ir. W.J.J.M. Kempes	(47) 07.07.2023
(47) 07.07.2023	(51) E03F 1/00	(22) 04.01.2022
(22) 03.01.2022	(11) 2032307	(54) MARINE DIESEL FUEL FILTER WITH
(54) NANOMETER CONDUCTIVE PAPER,	(47) 06.07.2023	ULTRASONIC CLEANING DEVICE AND
PREPARATION METHOD THEREOF,	(22) 28.06.2022	FILTERING METHOD
AND CAPACITOR	(54) PURELY-MECHANICAL, NON-	(73) Yellow Sea Fisheries Research Institute,
(73) Huagong Liyan (Guangdong) New	ELECTRONIC CONTROL, AND	Chinese Academy of Fishery Sciences
Material Technology Co., Ltd.	SINGLE-BODY VACUUM TOILET	First Institute of Oceanography, Ministry
SOUTH CHINA UNIVERSITY OF	SYSTEM	of Natural Resources
TECHNOLOGY	(73) Hangzhou Dianzi University	(72) Lisong Wang
(72) Kaili Zhang	(72) Jiayu Lian	Haoran Zhang
Guangxue Chen	Linxuan Cai	Zhiping Zhang
Linyi Chen	Jing Xu	Xuejun Xiong
Zihan Jiang	Haozhe Lin	Xin Li
Haozhi Chen	Yuan Chen	(74) ir. W.J.J.M. Kempes
Shulin Zhang	Yihong Liao	(51) F25D 3/12
(74) ir. M.B. Plaggenborg	Jiadi Lian	G01D 5/353
(51) E02B 3/06	(74) dr. R.C. van Duijvenbode c.s.	G05D 23/19
A01K 61/75	(31) 202111655438.X	B64F 5/60
A01G 31/02	(32) 31.12.2021	(11) 2034174
(11) 2030409	(33) China	(47) 10.07.2023
(47) 07.07.2023	(51) E04C 3/29	(22) 16.02.2023
(22) 03.01.2022	(11) 2030374	(54) DRY ICE TYPE TEMPERATURE
(54) NOVEL COMBINED ECOLOGICAL	(47) 06.07.2023	CONTROL SYSTEM AND METHOD
SEAWALL STRUCTURE AND	(22) 30.12.2021	OF MODEM FOR GROUND TEST OF
MANUFACTURING METHOD THEREOF	(54) BOX TYPE BAMBOO-CONCRETE	ROTOR SYSTEM
(73) Hohai University	COMPOSITE BEAM	(73) NORTHWESTERN POLYTECHNICAL
(72) Junhao Tu	(73) Bengbu University	UNIVERSITY
Huanyu Zhong	Anhui University of Finance and	(72) Yongjie Zhang
Haolang Liu	Economics	Guisen Luo
Zhen Wang	(72) Zhiyuan Wang	(74) ir. M.B. Plaggenborg
Aifeng Tao		(31) 202211590220.5

(32) 12.12.2022	(11) 2031150	(22) 31.12.2021
(33) China	(47) 07.07.2023	(54) Means and methods for modulating cellular avidity with receptors
(51) G01N 3/00	(22) 03.03.2022	(73) LUMICKS CA Holding B.V.
(11) 2030380	(54) METHOD FOR IDENTIFYING WALNUT DISEASE RESISTANCE THROUGH WALNUT LEAF STOMATAL DENSITY	(72) Serena Alba Davoli
(47) 07.07.2023	(73) Research Institute of Forestry Chinese Academy of Forestry	Zhongjie Yu
(22) 31.12.2021	Liaoning Institute of Economic Forestry	Rui Pedro Rijo da Costa Carvalho
(54) TEST METHOD FOR INFLUENCE OF POE-g-MAH CONTENT IN POE-g-MAH/POE ON PERFORMANCE OF COMPOSITES	(72) Youchao He	(74) ir. A. Blokland c.s.
(73) North University of China	Junpei Zhang	(51) G01S 7/41
(72) Jie Li	Feng Liu	(11) 2030447
Zhiqiang Wang	Qingguo Ma	(47) 11.07.2023
Wensheng Wang	Yonghong Gong	(22) 06.01.2022
Yingchun Li	Dongsheng Li	(54) METHOD FOR QUICKLY OBTAINING THREE-DIMENSIONAL ISO-SURFACE OF RADAR REFLECTIVITY DATA
Hongjun Wang	Baojun Zhao	(73) Nanjing University of Information Science and Technology
(74) ir. W.J.J.M. Kempes	Dong Pei	(72) Guojie Wang
(51) G01N 21/25	Hui Qu	Shuoben Bi
(11) 2030404	(74) drs. C.M.A. Quintelier	Mingyue Lu
(47) 07.07.2023	(31) 202111664286.X	Jinzhong Min
(22) 03.01.2022	(32) 31.12.2021	(74) ir. W.J.J.M. Kempes
(54) SENSITIVE FILM EMBEDDED OPTICAL FIBER HYDROGEN SENSOR BASED ON DUAL C-SHAPED MICRO-CAVITY	(33) China	(51) G05G 5/05
(73) China Jiliang University	(51) G01N 33/24	F16H 59/10
(72) Ben Xu	(11) 2030379	A63F 13/245
Chunliu Zhao	(47) 07.07.2023	G05G 1/04
Wanling Hong	(22) 31.12.2021	A63F 13/803
(74) ir. W.J.J.M. Kempes	(54) NOVEL AERATION ZONE LEACHING EXPERIMENTAL DEVICE	(11) 2030395
(51) G01N 21/31	(73) Chinese Academy of Geological Sciences	(47) 07.07.2023
G01N 21/78	(72) Yang Li	(22) 03.01.2022
(11) 2030438	Chaobin Guo	(54) SHIFTER SIMULATOR SYSTEM, SIMULATOR PROVIDED THEREWITH AND METHOD FOR OPERATING
(47) 10.07.2023	Kai Liu	(73) Heusinkveld Engineering B.V.
(22) 05.01.2022	Yingchao Liu	(72) Niels Heusinkveld
(54) VISUAL COLORIMETRIC TEST METHOD OF AMINOTRIAZOLE	Jing Wang	(74) dr. ir. G.J.C. Verdijk c.s.
(73) Changsha University of Science & Technology	Yaoyao Zhang	(51) G06Q 30/00
(72) Zhihe Qing	Zhenhao Xu	G09F 3/00
Ronghua Yang	Guozhang Xing	G06Q 10/08
Yunnan Li	Liping Du	(11) 2030397
(74) ir. M.B. Plaggenborg	Shanshan Wang	(47) 07.07.2023
(51) G01N 21/76	(74) ir. W.J.J.M. Kempes	(22) 03.01.2022
(11) 2030373	(51) G01N 33/487	(54) Werkwijze voor het classificeren van gebruikte en ongebruikte waar
(47) 06.07.2023	B01L 3/00	(73) Retourvignet B.V.
(22) 30.12.2021	(11) 2030378	(72) Wolter Hoekman
(54) CHEMILUMINESCENCE TECHNOLOGY FOR DETECTING HYDROXYL RADICAL	(47) 05.07.2023	(74) ir. B.J. 't Jong
(73) Tobacco Research Institute of Chinese Academy of Agricultural Sciences (Qingzhou Tobacco Research Institute of China National Tobacco Company) Enshi Branch of Hubei Tobacco Company	(22) 31.12.2021	(51) G08G 1/048
(72) Bikun Xiang	(54) Selecting forces for means and methods involving cellular avidity	G08G 1/01
Jianqiang Deng	(73) LUMICKS CA Holding B.V.	G08G 1/095
Dabin Wang	(72) Trillian Ashley Gregg	G08G 1/0967
Rui Wang	Domenico Fasci	G08G 1/09
Guixing Meng	(74) ir. A. Blokland c.s.	(11) 2030405
Yong Huang	(51) G01N 33/487	(47) 07.07.2023
Yang Ning	B01L 3/00	(22) 03.01.2022
Honghua Chen	(11) 2030386	(54) INTELLIGENT TRAFFIC DEVICE BASED ON INTERNET OF THINGS, AND MANAGEMENT SYSTEM
Xiaohong Ren	(47) 07.07.2023	(73) Shaoguan University
Guang Huo	(22) 31.12.2021	(72) Jingguo Dai
(74) ir. M.B. Plaggenborg	(54) Methods for identifying receptors and cellular avidities	Minsong Li
(51) G01N 21/84	(73) LUMICKS CA Holding B.V.	(74) ir. W.J.J.M. Kempes
(11) 2030387	(72) Marinus Theodorus Johannes van Loenhout	(51) H01H 9/06
(47) 06.07.2023	(74) ir. A. Blokland c.s.	(11) 2030400
	(51) G01N 33/487	(47) 07.07.2023
	G01N 33/483	(22) 03.01.2022
	G01N 15/00	

(54) SUPER-MINIATURE DUSTPROOF  
DIRECT-CURRENT TRIGGER SIGNAL  
SWITCH

(73) ZHEJIANG JIABEN ELECTRONICS  
CO., LTD.

(72) Shenglong Ni

(74) ir. W.J.J.M. Kempes

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(51) H01J 37/32

(11) 2030360

(47) 06.07.2023

(22) 30.12.2021

(54) Plasma-enhanced Chemical Vapour  
Deposition Apparatus

(73) LeydenJar Technologies B.V.

(72) Pavel Kudlacek

Arjen Didden

(74) dr. A. Krebs

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(51) H01L 39/16

H01L 41/16

(11) 2030396

(47) 07.07.2023

(22) 03.01.2022

(54) Persistent current switch

(73) Technische Universiteit Delft

(72) Salahuddin Nur

Ryoichi Ishihara

Jaime Oscar Tenorio Pearl

(74) ir. A.R. Aalbers

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(51) H02N 3/00

(11) 2030410

(47) 07.07.2023

(22) 03.01.2022

(54) NEW TYPE OF DC GENERATOR  
BASED ON SEMICONDUCTOR/POLAR  
LIQUID/SEMICONDUCTOR DYNAMIC  
DIODE AND PREPARATION METHOD  
THEREOF

(73) ZHEJIANG UNIVERSITY

(72) Zunshan Yang

Xutao Yu

Shisheng Lin

Yanghua Lu

Yanfei Yan

(74) ir. M.B. Plaggenborg

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**NP3**

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



**EP1**

**Vertaalde conclusies van Europese octrooiaanvragen.**

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

## EP2

## Voor Nederland verleende Europese octrooien.

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

		United States of America
(51) A01B 7/00	(21) EP18806192.3	(51) A01C 21/00
A01B 15/16	(47) 12.07.2023	A01M 7/00
(11) EP3090612	(87) US2018034961	A01M 21/04
(21) EP16401029.0	29.11.2018	A01C 23/04
(47) 12.07.2023	(22) 29.05.2018	A01C 5/06
(22) 19.04.2016	(54) METHOD TO PREVENT DRIFT OF AN	A01C 23/02
(54) GROUND PROCESSING DISC	AGRICULTURAL IMPLEMENT	A01C 7/06
(73) Amazonen-Werke H. Dreyer SE & Co.	(73) Precision Planting LLC	A01C 23/00
KG	(72) PLATTNER, Chad	(11) EP3445151
(72) Scherf, Silvio	(31) 201762511716 P	(21) EP17786495.6
(31) 102015106245	(32) 26.05.2017	(47) 12.07.2023
(32) 23.04.2015	(33) United States of America	(87) US2017028190
(33) Germany	(51) A01C 1/08	26.10.2017
(51) A01B 23/02	B65G 27/12	(22) 18.04.2017
(11) EP3808161	B65G 25/08	(54) IMPLEMENTS AND APPLICATION
(21) EP20201534.3	(11) EP3760020	UNITS HAVING AT LEAST ONE
(47) 12.07.2023	(21) EP20192096.4	FLEXIBLE OR PIVOTING APPLICATION
(22) 13.10.2020	(47) 12.07.2023	MEMBER FOR PLACEMENT OF
(54) HARROW TINES FOR EARTH	(22) 10.10.2016	APPLICATIONS WITH RESPECT
WORKING IMPLEMENT	(54) APPARATUS FOR TREATING	TO AGRICULTURAL PLANTS OF
(73) Treffler Maschinenbau GmbH & Co. KG	AGRICULTURAL MATTER	AGRICULTURAL FIELDS
(72) TREFFLER, Paul	(73) Applied Quantum Energies, LLC	(73) Precision Planting LLC
(31) 202019105649 U	(72) PASKALOV, George	(72) RADTKE, Ian
(32) 14.10.2019	PUCHACZ, Jerzy P.	STOLLER, Jason
(33) Germany	JARVIS, Rick	(31) 201762442895 P
(51) A01B 39/19	WOLFE, Benjamin	201662365824 P
A01B 21/04	(31) 201562240317 P	201662324095 P
A01B 61/04	(32) 12.10.2015	(32) 05.01.2017
A01B 63/32	(33) United States of America	22.07.2016
(11) EP4014703	(51) A01C 5/06	18.04.2016
(21) EP20215403.5	A01C 23/02	(33) United States of America
(47) 12.07.2023	A01C 7/06	United States of America
(22) 18.12.2020	A01C 23/00	United States of America
(54) AGRICULTURAL MACHINE FOR	A01C 21/00	
BREAKING THE SOIL AND FOR	A01M 7/00	(51) A01D 34/00
MECHANICAL WEEDING	A01M 21/04	(11) EP3695701
(73) Agrimec 3 S.n.c. Di Baraldo Iris & C.	A01C 23/04	(21) EP20156621.3
(72) BORASO, Dino	(11) EP3445145	(47) 12.07.2023
(51) A01B 45/00	(21) EP17786493.1	(22) 11.02.2020
A01G 20/43	(47) 12.07.2023	(54) ROBOTIC VEHICLE FOR BOUNDARIES
A01G 20/35	(87) US2017028188	DETERMINATION
A46B 13/00	26.10.2017	(73) Stiga S.P.A.
A46B 13/02	(22) 18.04.2017	(72) ROBINSON, Sean
(11) EP3586580	(54) IMPLEMENTS AND APPLICATION	SCAPIN, Michele
(21) EP17897373.1	UNITS HAVING AT LEAST ONE	CECCHETTO, Mauro
(47) 12.07.2023	APPLICATION MEMBER FOR	SCHMIDT, Alexander
(87) ES2017000145	PLACEMENT OF APPLICATIONS	MOOSBRUGGER, Anton
30.08.2018	WITH RESPECT TO AGRICULTURAL	(31) 19157247
(22) 17.11.2017	PLANTS OF AGRICULTURAL FIELDS	(32) 14.02.2019
(54) DEVICE FOR CLEANING ARTIFICIAL	(73) Precision Planting LLC	(33) European Patent Office (EPO)
TURF	(72) WILDERMUTH, Paul	(51) A01D 34/00
(73) Comercial Carma, S.A.	STOLLER, Jason	A47L 9/28
(72) CARBALLAL CAMACHO, Lisardo	RADTKE, Ian	B60B 3/00
(31) 201700109 U	LEHMAN, Tracy	A47L 9/00
(32) 23.02.2017	(31) 201762442895 P	B60B 19/12
(33) Spain	201662365824 P	A47L 11/40
(51) A01B 63/112	201662324095 P	(11) EP3824712
A01B 63/114	(32) 05.01.2017	(21) EP20208799.5
A01C 7/20	22.07.2016	(47) 12.07.2023
A01B 69/00	18.04.2016	(22) 20.11.2020
(11) EP3629692	(33) United States of America	
	United States of America	

(54) SYSTEM COMPRISING A BASE STATION AND AN AUTONOMOUSLY MOVING EARTH WORKING IMPLEMENT	(73) Globe (Jiangsu) Co., Ltd. (72) JIANG, Feng (31) 201811533580 (32) 14.12.2018 (33) China	(47) 12.07.2023 (22) 02.11.2018 (54) IMPROVEMENTS IN OR RELATING TO AGRICULTURAL BALING MACHINES
(73) Vorwerk & Co. Interholding GmbH (72) Windorfer, Harald (31) 102019131662 (32) 22.11.2019 (33) Germany	(51) A01D 34/68 A01D 34/82 (11) EP3799712 (21) EP20210230.7 (47) 12.07.2023 (22) 26.05.2016 (54) LAWN MOWER (73) Husqvarna AB (72) MEJEGARD, Peter SVENNUNG, Johan FINLÖV, Martin NILSSON, Johan JOHANNSON, Anneli KELEDIKIS, Panajottis LOSDAL, Claes ANNVIK, Anna (31) 1550796 (32) 11.06.2015 (33) Sweden	(73) CNH Industrial Belgium NV (72) DEMON, Frederik BONTE, Xavier G.J.M. (51) A01F 15/10 (11) EP3103323 (21) EP16173777.0 (47) 12.07.2023 (22) 09.06.2016 (54) ELECTROHYDRAULIC CIRCUIT FOR A DROP FLOOR ASSEMBLY (73) CNH Industrial Belgium nv (72) Guttikar, Srinivas McClure, John R. Singh, Chandrashekhar Wagh, Dhananjay (31) 201514734583 (32) 09.06.2015 (33) United States of America
(51) A01D 34/00 G01C 25/00 G01S 19/07 G01S 19/35 G01S 19/39 G01S 19/41 G01S 19/48 G01S 19/49 G05B 23/02 G05D 1/02 G06Q 10/04 G06F 16/00 (11) EP3557355 (21) EP17880706.1 (47) 12.07.2023 (87) CN2017116685 21.06.2018 (22) 15.12.2017 (54) STATE DETECTION METHOD FOR AN AUTOMATIC WORKING SYSTEM AND MOBILE STATION	(51) A01D 43/08 (11) EP3735815 (21) EP19173612.3 (47) 12.07.2023 (22) 09.05.2019 (54) APPARATUS FOR DIRECTING A HARVESTED CROP OUTPUT FROM AN AGRICULTURAL HARVESTER (73) CNH Industrial Belgium N.V. (72) VANTHOURNOUT, Jonas VAN BELLEGHEM, Stijn BLANCKE, Jeffrey (51) A01D 46/28 (11) EP3785519 (21) EP19315102.4 (47) 12.07.2023 (22) 26.08.2019 (54) CONVEYING SYSTEM FOR A FRUIT HARVESTER (73) CNH Industrial France S.A.S. (72) Metayer, Raphaël Beleteau, David (51) A01F 12/44 A01F 12/46 (11) EP3456176 (21) EP18194321.8 (47) 12.07.2023 (22) 13.09.2018 (54) AUGER BED WITH MULTIPLE AUGERS IN A SINGLE TROUGH FOR A COMBINE HARVESTER (73) CNH Industrial Belgium NV (72) Farley, Herbert M. Ricketts, Jonathan E. Hillen, Curtis F. (31) 201715708671 (32) 19.09.2017 (33) United States of America	(31) 201514734583 (32) 09.06.2015 (33) United States of America (51) A01G 18/62 (11) EP3831197 (21) EP20211385.8 (47) 12.07.2023 (22) 02.12.2020 (54) DEVICE WITH COUPLED BEDS FOR GROWING MUSHROOMS (73) Lemmen, Jacobus Alexander Jozef Van Doremalee, Marcus Gerardus Maria (72) Van Doremalee, Marcus Gerardus Maria Lemmen, Jacobus Alexander Jozef (31) 2024383 (32) 04.12.2019 (33) Netherlands (51) A01G 22/25 A01G 22/60 A01G 25/00 C05G 5/00 C05G 5/23 A01G 7/00 (11) EP3804504 (21) EP19811490.2 (47) 12.07.2023 (87) JP2019021265 05.12.2019 (22) 29.05.2019 (54) FERTILIZER ABSORPTION IMPROVEMENT METHOD (73) AQUASOLUTION Corporation (72) SATO, Takashi (31) 2018103097 (32) 30.05.2018 (33) Japan (51) A01H 5/08 A01H 1/04 A01H 5/00 (11) EP2825024 (21) EP13708833.2 (47) 12.07.2023 (87) EP2013055044 19.09.2013 (22) 12.03.2013 (54) TOMATO PLANTS WITH INTENSE PHENOTYPE AND TYLCV RESISTANCE (73) Nunhems B.V.
(51) A01D 34/00 G01C 25/00 G01S 19/07 G01S 19/35 G01S 19/39 G01S 19/41 G01S 19/48 G01S 19/49 G05B 23/02 G05D 1/02 G06Q 10/04 G06F 16/00 (11) EP3557355 (21) EP17880706.1 (47) 12.07.2023 (87) CN2017116685 21.06.2018 (22) 15.12.2017 (54) STATE DETECTION METHOD FOR AN AUTOMATIC WORKING SYSTEM AND MOBILE STATION	(51) A01D 43/08 (11) EP3735815 (21) EP19173612.3 (47) 12.07.2023 (22) 09.05.2019 (54) APPARATUS FOR DIRECTING A HARVESTED CROP OUTPUT FROM AN AGRICULTURAL HARVESTER (73) CNH Industrial Belgium N.V. (72) VANTHOURNOUT, Jonas VAN BELLEGHEM, Stijn BLANCKE, Jeffrey (51) A01D 46/28 (11) EP3785519 (21) EP19315102.4 (47) 12.07.2023 (22) 26.08.2019 (54) CONVEYING SYSTEM FOR A FRUIT HARVESTER (73) CNH Industrial France S.A.S. (72) Metayer, Raphaël Beleteau, David (51) A01F 12/44 A01F 12/46 (11) EP3456176 (21) EP18194321.8 (47) 12.07.2023 (22) 13.09.2018 (54) AUGER BED WITH MULTIPLE AUGERS IN A SINGLE TROUGH FOR A COMBINE HARVESTER (73) CNH Industrial Belgium NV (72) Farley, Herbert M. Ricketts, Jonathan E. Hillen, Curtis F. (31) 201715708671 (32) 19.09.2017 (33) United States of America	(31) 201514734583 (32) 09.06.2015 (33) United States of America (51) A01G 18/62 (11) EP3831197 (21) EP20211385.8 (47) 12.07.2023 (22) 02.12.2020 (54) DEVICE WITH COUPLED BEDS FOR GROWING MUSHROOMS (73) Lemmen, Jacobus Alexander Jozef Van Doremalee, Marcus Gerardus Maria (72) Van Doremalee, Marcus Gerardus Maria Lemmen, Jacobus Alexander Jozef (31) 2024383 (32) 04.12.2019 (33) Netherlands (51) A01G 22/25 A01G 22/60 A01G 25/00 C05G 5/00 C05G 5/23 A01G 7/00 (11) EP3804504 (21) EP19811490.2 (47) 12.07.2023 (87) JP2019021265 05.12.2019 (22) 29.05.2019 (54) FERTILIZER ABSORPTION IMPROVEMENT METHOD (73) AQUASOLUTION Corporation (72) SATO, Takashi (31) 2018103097 (32) 30.05.2018 (33) Japan (51) A01H 5/08 A01H 1/04 A01H 5/00 (11) EP2825024 (21) EP13708833.2 (47) 12.07.2023 (87) EP2013055044 19.09.2013 (22) 12.03.2013 (54) TOMATO PLANTS WITH INTENSE PHENOTYPE AND TYLCV RESISTANCE (73) Nunhems B.V.
(51) A01D 34/68 A01D 34/82 (11) EP3666055 (21) EP19216560.3 (47) 12.07.2023 (22) 16.12.2019 (54) GARDEN TOOL	(51) A01F 15/08 A01D 75/20 A01B 61/02 (11) EP3646718 (21) EP18204221.8	

(72) VERBAKEL, Henk VECCHIO, Franco	(51) A01K 67/027 C07K 14/47	(73) Amazonen-Werke H. Dreyer SE & Co. KG
(31) 201261611749 P 12159860	(11) EP3687287	(72) Kowollik, Daniel
(32) 16.03.2012 16.03.2012	(21) EP18786611.6 (47) 12.07.2023	(31) 102019113728 (32) 23.05.2019
(33) United States of America European Patent Office (EPO)	(87) US2018053099 04.04.2019	(33) Germany
(51) A01K 5/01 A01K 5/02	(22) 27.09.2018	(51) A01M 7/00
(11) EP3881675	(54) RODENTS EXPRESSING HUMANIZED C1Q COMPLEX	(11) EP4044801
(21) EP21171282.3	(73) Regeneron Pharmaceuticals, Inc.	(21) EP20788804.1
(47) 12.07.2023	(72) MEAGHER, Karolina	(47) 12.07.2023
(22) 28.08.2014	PRASAD, Brinda	(87) EP2020078535 22.04.2021
(54) PET FEEDERS	MURPHY, Andrew	(22) 12.10.2020
(73) SureFlap Limited	STEVENS, Sean	(54) METHOD AND SYSTEM FOR PLANT PROTECTION AGENT MANAGEMENT ON AN AGRICULTURAL FIELD
(72) HILL, Nicholas Patrick Roland	TU, Naxin	(73) Bayer Aktiengesellschaft
(31) 201315484	MACDONALD, Lynn	(72) SENGGER, Philipp
(32) 30.08.2013	(31) 201762565438 P	HOFF, Simon Franz
(33) United Kingdom	(32) 29.09.2017	(31) 19215600 19203631
(51) A01K 5/01 A01K 5/02	(33) United States of America	(32) 12.12.2019 16.10.2019
(11) EP3881676	(51) A01M 1/14	(33) European Patent Office (EPO) European Patent Office (EPO)
(21) EP21171292.2	A01M 29/12	(51) A01M 7/00
(47) 12.07.2023	A01M 1/20	A01M 21/04
(22) 28.08.2014	A01M 1/10	(11) EP3785538
(54) PET FEEDERS	A01M 1/02	(21) EP20401048.2
(73) Sureflap Ltd	(11) EP3258777	(47) 12.07.2023
(72) HILL, Nicholas Patrick Roland	(21) EP16753152.4	(22) 24.08.2020
(31) 201315484	(47) 12.07.2023	(54) DEVICE AND METHOD FOR PLANT TREATMENT BASED ON REQUIREMENTS
(32) 30.08.2013	(87) US2016018690 25.08.2016	(73) Amazonen-Werke H. Dreyer SE & Co. KG
(33) United Kingdom	(22) 19.02.2016	(72) Heer, Jochen
(51) A01K 15/02 A01K 5/01	(54) SYSTEM AND METHOD FOR DETECTING AND REDUCING A POPULATION OF A COLONY OF CRAWLING INSECTS	Siltmann, Alexander
(11) EP3890479	(73) Ecolab USA Inc.	Trentmann, Markus
(21) EP19893883.9	(72) GARDNER, Douglas B.	Kühn, Christoph
(47) 12.07.2023	JOHNSTON, Staci J.	(31) 102019123328
(87) US2019065205 11.06.2020	(31) 201615005642 201514626254	(32) 30.08.2019
(22) 09.12.2019	(32) 25.01.2016 19.02.2015	(33) Germany
(54) ANIMAL ENTERTAINING DEVICE AND METHOD OF ENTERTAINING AN ANIMAL	(33) United States of America United States of America	(51) A01N 1/02
(73) Bounce Enterprises LLC	(51) A01M 7/00	(11) EP3592145
(72) MARKHAM, Joseph, P.	(11) EP3185680	(21) EP18712983.8
(31) 201816213223	(21) EP15757466.6	(47) 12.07.2023
(32) 07.12.2018	(47) 12.07.2023	(87) FR2018050547 13.09.2018
(33) United States of America	(87) EP2015069437 03.03.2016	(22) 09.03.2018
(51) A01K 31/16 B65G 47/57 B65G 17/36 B65G 17/18 B65G 17/40	(22) 25.08.2015	(54) SYSTEM AND METHOD FOR VITRIFYING A BIOLOGICAL SUBSTANCE
(11) EP3678478	(54) AGRICULTURAL SPRAYER COMPRISING A SYSTEM FOR THE AUTOMATIC CONTROL OF SPRAYING PROFILES	(73) IMV Technologies
(21) EP18762152.9	(73) HORSCH LEEB Application Systems GmbH	(72) DOUESNEL, Jean-Louis
(47) 12.07.2023	(72) LEEB, Theodor	BEAU, Christian
(87) IB2018055869 14.03.2019	(31) 102014112441	SCHMITT, Eric
(22) 03.08.2018	(32) 29.08.2014	CLAIRAZ, Philippe
(54) CONVEYING SYSTEM FOR SHOCK- SENSITIVE ITEMS, IN PARTICULAR EGGS	(33) Germany	(31) 1751987
(73) Valli S.r.l.	(51) A01M 7/00	(32) 10.03.2017
(72) MARTONI, Fausto	(11) EP3753406	(33) France
(31) 201700099999	(21) EP20401028.4	(51) A01N 1/02 C12M 1/00 B01L 3/00 B65D 83/00
(32) 06.09.2017	(47) 12.07.2023	(11) EP3376860
(33) Italy	(22) 19.05.2020	(21) EP16808832.6
	(54) DISTRIBUTION RODS	(47) 12.07.2023

(87) US2016060299 26.05.2017	(33) United States of America	(47) 12.07.2023
(22) 03.11.2016	(51) A01N 57/20	(87) EP2019050603 18.07.2019
(54) CRYOPRESERVATION DEVICES	A01N 25/06	(22) 11.01.2019
(73) Corning Incorporated	A01N 25/30	(54) CREAM COMPOSITIONS OPTIMIZED FOR FOAMING SYSTEMS
(72) LACEY, William Joseph	A01P 13/00	(73) FrieslandCampina Nederland B.V.
SZLOSEK, Paul Michael	(11) EP3621437	(72) FRAIPONTS, Arno
CODDAIRE, John Wilfred	(21) EP18723524.7	CUSTINNE, Marc Jacques Christian
TANNER, Allison Jean	(47) 12.07.2023	Maurice
SCHAEFER, Michael Kurt	(87) EP2018062069	(31) 18151711
MARTIN, Gregory Roger	15.11.2018	(32) 15.01.2018
(31) 201562255627 P	(22) 09.05.2018	(33) European Patent Office (EPO)
(32) 16.11.2015	(54) USE OF N-ALKYL GLUCAMIDES FOR REDUCING DRIFT DURING THE APPLICATION OF GLUFOSINATE- CONTAINING PLANT TREATMENT AGENTS	(51) A23D 7/02 A23D 9/02
(33) United States of America	(73) Clariant International Ltd	(11) EP3354138
(51) A01N 25/30	(72) BAUR, Peter	(21) EP16848698.3
A01N 43/653	BAUER, Martin	(47) 12.07.2023
A01N 41/06	(31) 102017004616	(87) JP2016078122 30.03.2017
A01N 41/10	(32) 12.05.2017	(22) 23.09.2016
A01N 43/90	(33) Germany	(54) POWDERY FAT OR OIL COMPOSITION AND METHOD FOR PRODUCING SAME
A01N 47/36	(51) A21C 3/02	(73) The Nisshin OilliO Group, Ltd.
A01N 43/54	(11) EP3837979	(72) AIBARA Tomohiro
A01P 3/00	(21) EP19217563.6	IWASAWA Tetsuro
A01P 7/00	(47) 12.07.2023	TAKEGUCHI Seiya
A01P 13/00	(22) 18.12.2019	KATAOKA Yutaro
(11) EP3534706	(54) DEVICE FOR PROCESSING DOUGH	UEHARA Hidetaka
(21) EP17790718.5	(73) Radie B.V.	ARIMOTO Shin
(47) 12.07.2023	(72) VAN BLOKLAND, Johannes Josephus Antonius	(31) 2015187271
(87) EP2017076117 11.05.2018	(51) A21C 13/02	(32) 24.09.2015
(22) 12.10.2017	(11) EP3849322	(33) Japan
(54) AGROCHEMICAL CONCENTRATES CONTAINING ALKYL POLYGLUCOSIDE AND NON-IONIC SURFACTANT	(21) EP19772975.9	(51) A23G 1/50 A23G 1/18 A23G 1/00 A23G 1/04 A23G 1/10 A23G 1/40 A23P 10/22 A23G 3/02
(73) Syngenta Participations AG	(47) 12.07.2023	(11) EP3387910
(72) PERRIN, Renaud, Louis, Benoit	(87) AT2019060298	(21) EP17166150.7
THOMSON, Niall, Rae	19.03.2020	(47) 12.07.2023
BELL, Gordon, Alastair	(22) 11.09.2019	(22) 12.04.2017
(31) 201618479	(54) PROOFER FOR PROOFING DOUGH	(54) METHOD AND DEVICE FOR PRODUCING AND/OR PROCESSING OF FOOD PRODUCTS
(32) 02.11.2016	(73) KÖNIG MASCHINEN GESELLSCHAFT M.B.H.	(73) Bühler AG
(33) United Kingdom	(72) RIEGER, Thomas	(72) Strähl, Patrick
(51) A01N 43/40	STELZER, Hannes	Paggios, Konstantinos
A01P 13/00	(31) 507842018	Höhener, Manuel
C07D 213/73	(32) 13.09.2018	(51) A23G 9/22 A23G 9/28
C07D 213/79	(33) Austria	(11) EP3616528
(11) EP3440938	(51) A22C 15/00	(21) EP19194466.9
(21) EP18195928.9	B65H 45/20	(47) 12.07.2023
(47) 12.07.2023	B65D 65/12	(22) 29.08.2019
(22) 12.03.2014	B65D 67/00	(54) ICE CREAM DISPENSING MACHINE
(54) 4-AMINO-6-(4-SUBSTITUTED- PHENYL)-PICOLINATES AND THEIR USE AS HERBICIDES	(11) EP3981253	(73) Valmar Global VSE ZA Sladoled D.O.O.
(73) Corteva Agriscience LLC	(21) EP21201248.8	(72) JEJCIC, Valter
(72) GIAMPIETRO, Natalie C.	(47) 12.07.2023	(31) 201800008232
FISCHER, Lindsey G.	(22) 06.10.2021	(32) 29.08.2018
LO, William C.	(54) COVER FOR COVERING PRODUCTS ON A HANDLING SUPPORT	(33) Italy
EPP, Jeffrey B.	(73) Serendipity B.V.	(51) A23G 9/22 A23K 40/20 A23K 50/48
IRVINE, Nicholas M.	(72) Leuver, Frank Christiaan	
LOWE, Christian T.	(31) 2026634	
SATCHIVI, Norbert M.	(32) 06.10.2020	
KISTER, Jeremy	(33) Netherlands	
ECKELBARGER, Joseph D.	(51) A23C 13/12	
YERKES, Carla N.	A23L 9/20	
PETKUS, Jeffrey	A23G 9/00	
SIDDALL, Thomas L.	A23G 9/46	
SCHMITZER, Paul R.	(11) EP3740082	
ROTH, Joshua	(21) EP19700288.4	
(31) 201313840233		
(32) 15.03.2013		

A23N 17/00	(51) A23J 3/14	TO IMPROVE ZOOTECHNICAL
A23P 30/10	A23J 3/10	PERFORMANCE IN RUMINANTS
F25C 1/243	A23C 9/13	(73) Pancosma S.A.
A23K 20/163	A23C 20/00	(72) WALL, Emma
A23K 50/40	A23C 19/093	BRAVO, David
(11) EP4000407	A23C 19/08	(31) 1502465
(21) EP21208276.2	A23C 23/00	(32) 25.11.2015
(47) 12.07.2023	A23G 1/44	(33) France
(22) 15.11.2021	A23J 3/08	<hr/>
(54) SILICONE HOLDER FOR MOULDING	A23L 9/10	(51) A23L 2/52
AND PREPARING FROZEN DOG FOOD	A23L 33/185	A23C 21/00
(73) Pawesome bvba	A23L 33/19	A23L 2/60
(72) BRACKE, Tineke	A23L 23/10	A61K 31/7016
MOLENBERGHS, David	A23C 9/154	C13K 13/00
(31) 202005821	A23C 19/028	A23L 33/125
(32) 16.11.2020	A23C 19/055	(11) EP3542641
(33) Belgium	A23C 19/076	(21) EP18162827.2
<hr/>	(11) EP3133933	(47) 12.07.2023
(51) A23G 9/28	(21) EP15717565.4	(22) 20.03.2018
B65D 3/16	(47) 12.07.2023	(54) LACTULOSE-CONTAINING PRODUCT
B65D 85/78	(87) FR2015050780	AND METHOD FOR PRODUCING A
B65D 83/00	01.10.2015	LACTULOSE-CONTAINING PRODUCT
B65D 3/18	(22) 26.03.2015	(73) CuraProducts GmbH
(11) EP4072307	(54) ASSEMBLY OF AT LEAST ONE PLANT	Universität Hohenheim
(21) EP20800133.9	PROTEIN AND AT LEAST ONE MILK	(72) Hinrichs, Jörg
(47) 12.07.2023	PROTEIN, PRODUCTION THEREOF	Nedele, Christian
(87) EP2020080738	AND USES OF SAME	Krause, Lothar
17.06.2021	(73) Roquette Frères	Rauber, Michael
(22) 03.11.2020	Ingredia	<hr/>
(54) SYSTEM AND METHOD FOR	(72) SNAPPE, Jean-Jacques	(51) A23L 2/52
DISPENSING A FROZEN CONFECTION	MORETTI, Emmanuelle	A23L 2/68
(73) Unilever IP Holdings B.V.	COLIN, Isabelle	A23L 33/105
(72) SHERWOOD, Paul, Leonard	NONO, Merveille	(11) EP3831213
JOUSSE, Fabien, Frédéric, Raymond,	(31) 1452608	(21) EP19398015.8
Marie	(32) 26.03.2014	(47) 12.07.2023
(31) 19215399	(33) France	(22) 04.12.2019
(32) 11.12.2019	(51) A23K 10/00	(54) NON-CARBONATED BEVERAGE
(33) European Patent Office (EPO)	A23K 20/00	COMPRISING ALOE VERA AND PLANT
<hr/>	A23K 20/10	EXTRACTS
(51) A23G 9/38	(11) EP3554257	(73) Vegastrade-Comércio de Perfumeria e
A23G 9/42	(21) EP17826563.3	Bijutaria, LDA
(11) EP4037490	(47) 12.07.2023	(72) Gutierrez, Iván Llamas
(21) EP20776181.8	(87) IB2017057851	Zapata, José Miguel
(47) 12.07.2023	21.06.2018	da Costa, Nelson
(87) EP2020077070	(22) 12.12.2017	<hr/>
08.04.2021	(54) COMPOSITIONS AND METHODS THAT	(51) A23L 2/60
(22) 28.09.2020	MODULATE WHITE BLOOD CELLS	A23L 2/56
(54) FROZEN CONFECTION	OR NEUTROPHILS IN A COMPANION	A23L 2/54
(73) Unilever IP Holdings B.V.	ANIMAL	A23L 2/58
(72) NEVILLE, Michelle, Elizabeth	(73) Société des Produits Nestlé S.A.	A23L 2/68
(31) 19200918	(72) HANNAH, Steven S	(11) EP3528641
(32) 01.10.2019	MIDDLETON, Rondo P	(21) EP17862575.2
(33) European Patent Office (EPO)	ZANGHI, Brian, M	(47) 12.07.2023
<hr/>	REZZI, Serge Andre Dominique	(87) US2017057143
(51) A23J 1/00	(31) 201662434534 P	26.04.2018
A23J 1/14	(32) 15.12.2016	(22) 18.10.2017
A23L 33/185	(33) United States of America	(54) GLUCOSE BEVERAGE COMPRISING
(11) EP3691461	(51) A23K 40/35	EXOGENOUS FLAVOR SOURCE AND
(21) EP18804363.2	A23K 50/10	COLOR
(47) 12.07.2023	A23K 20/10	(73) Selinfreund, Richard H.
(87) FR2018052404	(11) EP3379940	Breslin, Paul
11.04.2019	(21) EP16810452.9	(72) Selinfreund, Richard H.
(22) 01.10.2018	(47) 12.07.2023	Breslin, Paul
(54) PEA PROTEIN COMPOSITION HAVING	(87) IB2016001651	(31) 201662409748 P
IMPROVED NUTRITIONAL QUALITY	01.06.2017	(32) 18.10.2016
(73) Roquette Frères	(22) 22.11.2016	(33) United States of America
(72) IBERT, Mathias	(54) FOOD ADDITIVE, PROCESS FOR	<hr/>
LECOCQ, Aline	ITS PRODUCTION, AND ITS USE	(51) A23L 2/66
(31) 1759289		A23D 7/005
(32) 04.10.2017		A23L 29/10
(33) France		A23L 33/185
		(11) EP3986156

(21) EP20732937.6	(32) 12.09.2017	(51) A24D 1/14
(47) 12.07.2023	(33) United States of America	A24F 1/30
(87) EP2020066980	(51) A23L 33/10	(11) EP3866618
24.12.2020	A61K 36/906	(21) EP19835597.6
(22) 18.06.2020	A61K 36/9066	(47) 12.07.2023
(54) HEAT STABLE RAPESEED PROTEIN	A61K 31/095	(87) DE2019000276
COMPOSITION	A61K 31/724	23.04.2020
(73) DSM IP Assets B.V.	A61K 36/02	(22) 19.10.2019
(72) SEIN, Arjen	A61K 36/67	(54) HOOKAH TOBACCO CAPSULE, USE
CHIEN, Ya-Hui	A23L 33/105	OF AND METHOD FOR OPERATING A
VINK, Johanna Corline Margriet Jolien	A23L 33/135	HOOKAH AND HOOKAH
(31) 19181693	A23L 33/15	(73) Barati, Khosrow
(32) 21.06.2019	A23L 33/22	(72) Barati, Khosrow
(33) European Patent Office (EPO)	A61K 31/12	(51) A24D 1/22
(51) A23L 2/78	A61K 31/375	(11) EP3784078
C02F 1/42	A61K 31/4525	(21) EP19722809.1
B01J 41/00	A61K 36/03	(47) 12.07.2023
(11) EP3840589	A61K 36/9068	(87) EP2019060578
(21) EP19745747.6	(11) EP3849343	31.10.2019
(47) 12.07.2023	(21) EP18769342.9	(22) 25.04.2019
(87) IB2019054236	(47) 12.07.2023	(54) SMOKING ARTICLE, SMOKING
27.02.2020	(87) EP2018074588	SYSTEM AND METHOD FOR
(22) 22.05.2019	19.03.2020	AEROSOL GENERATION
(54) SYSTEMS AND METHODS FOR	(22) 12.09.2018	(73) JT International SA
DEACIDIFICATION OF FLUIDS	(54) COMPOSITION, FOOD SUPPLEMENT,	(72) HASEGAWA, Takashi
(73) West Invest S.A.	COMPOSITION ACTING AS A FOOD	UEMURA, Shinichiro
(72) BAUDOUIN, Stanislas	SUPPLEMENT FOR CHILDREN, AND	GARCIA GARCIA, Eduardo Jose
REYNAUD, Eric	PRODUCTION METHOD	ROGAN, Andrew Robert John
(31) 201862744317 P	(73) PM-International AG	(31) 18169745
201862722529 P	(72) MESSER, Wilhelm	(32) 27.04.2018
(32) 11.10.2018	LAUINGER, Christian	(33) European Patent Office (EPO)
24.08.2018	SORG, Rolf	(51) A24F 23/02
(33) United States of America	KÜHNE, Tobias	(11) EP3435791
United States of America	(51) A23N 12/08	(21) EP17714737.8
(51) A23L 3/36	(11) EP3986166	(47) 12.07.2023
F25D 13/06	(21) EP20732222.3	(87) EP2017057597
A23L 3/375	(47) 12.07.2023	05.10.2017
F25D 3/11	(87) EP2020066463	(22) 30.03.2017
(11) EP4059352	24.12.2020	(54) POUCH WITH COVER FLAP AND
(21) EP21163182.5	(22) 15.06.2020	ADHERED EXTENSION FLAP
(47) 12.07.2023	(54) ROASTING APPARATUS	(73) Philip Morris Products S.A.
(22) 17.03.2021	(73) Société des Produits Nestlé S.A.	(72) SINGH, Digvijay
(54) SYSTEM AND METHOD FOR	(72) BRIGANTE, Stuart	DE LAVALLAZ, Céline
PROCESSING FOOD PRODUCTS BY	DUBIEF, Flavien Florent	(31) 16163280
AT LEAST PARTIAL FREEZING OR	GUREVITCH-BEACOCK, Paul	(32) 31.03.2016
CHILLING	MARTIN, Vincent	(33) European Patent Office (EPO)
(73) L'Air Liquide, Société Anonyme pour	CECCAROLI, Stefano	(51) A24F 40/40
l'Etude et l'Exploitation des Procédés	(31) 19180787	A24F 40/20
Georges Claude	(32) 18.06.2019	(11) EP3981267
(72) BRUGGEMAN, Beny	(33) European Patent Office (EPO)	(21) EP20200300.0
(51) A23L 33/00	(51) A24B 15/14	(47) 12.07.2023
A23L 33/20	A24B 15/30	(22) 06.10.2020
A23K 50/40	(11) EP3863433	(54) AEROSOL GENERATION DEVICE
A61P 3/10	(21) EP19783039.1	WITH EJECTION MECHANISM
A61P 9/10	(47) 12.07.2023	(73) JT International SA
(11) EP3681318	(87) EP2019077254	(72) YAMAGUCHI, Akira
(21) EP18774139.2	16.04.2020	SPOERRI, Monique
(47) 12.07.2023	(22) 08.10.2019	LYELL, Nathan
(87) IB2018056744	(54) CLOVE-CONTAINING AEROSOL-	KAYAMA, Yusuke
21.03.2019	GENERATING SUBSTRATE	BOUCHUIGUIR, Layth Sliman
(22) 04.09.2018	(73) Philip Morris Products S.A.	HASEGAWA, Ryo
(54) METHODS FOR MIMICKING CHRONIC	(72) VUARNOZ-BIZE, Aline	PLEVNIK, Marko
CALORIC RESTRICTION AND FOR	LESUFFLEUR, Céline	(51) A24F 40/42
IMPARTING HEALTH BENEFITS TO AN	LANG, Gerhard	A24F 40/30
ANIMAL	DEFOREL, Corinne	A24F 40/10
(73) Société des Produits Nestlé S.A.	(31) 18199205	(11) EP3881691
(72) PAN, Yuanlong	(32) 08.10.2018	(21) EP20197437.5
(31) 201762557361 P	(33) European Patent Office (EPO)	(47) 12.07.2023

(22) 22.09.2020	(54) ELECTRONIC SMOKING DEVICE, CARTOMIZER AND LIQUID RESERVOIR	(11) EP3716803
(54) ATOMIZATION ASSEMBLY AND ELECTRONIC CIGARETTE COMPRISING THE SAME	(73) Fontem Ventures B.V.	(21) EP18821769.9
(73) Liu, Tuanfang	(72) Deichmann, Lutz	(47) 12.07.2023
(72) Liu, Tuanfang	Daryani, Neha	(87) SG2018050588
(31) 202020373230 U	(51) A41B 11/02	06.06.2019
202010206838	(11) EP3723527	(22) 30.11.2018
(32) 20.03.2020	(21) EP18842580.5	(54) TEXTILE AND MANUFACTURING METHOD THEREOF
20.03.2020	(47) 12.07.2023	(73) MAS Innovation (Private) Limited
(33) China	(87) IT2018000155	(72) CHANDRASIRI, Thennakonge Maduka Sampath
China	20.06.2019	PERERA, Hetti Arachchige Malaka Chathuranga
(51) A24F 40/44	(22) 06.12.2018	THARMASEGARAM, Kukaraj
A24F 40/42	(54) DYNAMIC VENTILATION SYSTEM FOR SOCKS	JAYASUNDARA, Jayasundara Walpola Kankanamalage Kosalasiri
A24F 40/10	(73) Trerè Innovation S.r.l.	(31) 10201710003Y
(11) EP3923752	(72) GIORGINI, Fabio	(32) 01.12.2017
(21) EP20705326.5	(31) 201700143190	(33) Singapore
(47) 12.07.2023	(32) 12.12.2017	(51) A41D 13/01
(87) EP2020053404	(33) Italy	A41D 27/08
20.08.2020	(51) A41B 13/06	D05C 7/08
(22) 11.02.2020	A47G 9/08	(11) EP3868234
(54) EVAPORATOR TANK UNIT FOR AN INHALER, PREFERABLY AN ELECTRONIC CIGARETTE PRODUCT, ELECTRONIC CIGARETTE PRODUCT AND WICK STRUCTURE	A61F 5/37	(21) EP20210727.2
(73) Körber Technologies GmbH	(11) EP3318142	(47) 12.07.2023
(72) KOCK, Lennart	(21) EP17207995.6	(22) 30.11.2020
KLEINE WÄCHTER, Michael	(47) 12.07.2023	(54) GARMENT WITH SIGNAL FUNCTION ON OBJECT DETECTION
MÜLLER, Thomas	(22) 25.06.2010	(73) Nores UG
(31) 102019202046	(54) SWADDLING SUIT	duotec GmbH
(32) 15.02.2019	(73) Little Beings Holdings Pty Ltd	Orbis Textil GmbH & Co. KG
(33) Germany	(72) KRAWCHUK, Hana-Lia	(72) Blätgen, Domenic
(51) A24F 40/44	(31) 2009903034	Asbeck, Christian
A24F 40/46	(32) 30.06.2009	Wallmann, Jens
H05B 3/46	(33) Australia	Wallmann, Annika, Isabell
A24F 40/10	(51) A41C 3/00	Joslawski, Lukas
(11) EP4023083	(11) EP3585193	Ungemach, Marc
(21) EP20953533.5	(21) EP18709889.2	Rönisch, Arthur
(47) 12.07.2023	(47) 12.07.2023	(31) 20158934
(87) CN2020115308	(87) US2018019419	(32) 24.02.2020
24.03.2022	30.08.2018	(33) European Patent Office (EPO)
(22) 15.09.2020	(22) 23.02.2018	(51) A43B 1/04
(54) LIQUID CONDUCTING COTTON ATOMIZATION UNIT	(54) SUPPORT GARMENT	A43B 5/04
(73) Shenzhen Huachengda Precision Industry Co., Ltd.	(73) Nike Innovate C.V.	A43B 13/02
(72) CHEN, Ping	(72) BRANDT, Baron C.	A43B 17/02
(51) A24F 40/46	KOSHKAROFF, Iustinia	A43B 17/14
(11) EP3987953	GROGRO, Daniela	A43B 17/18
(21) EP20941524.9	(31) 201815901651	B29D 35/14
(47) 12.07.2023	201762463286 P	(11) EP3772292
(87) CN2020111129	(32) 21.02.2018	(21) EP20189378.1
03.03.2022	24.02.2017	(47) 12.07.2023
(22) 25.08.2020	(33) United States of America	(22) 04.08.2020
(54) ATOMIZING UNIT WITH CIRCUITOUS AIR PASSAGE AND ATOMIZATION ASSEMBLY	United States of America	(54) REMOVABLE WEDGE FOR SKI BOOTS AND SKI BOOT PROVIDED WITH SUCH WEDGE
(73) Shenzhen Huachengda Precision Industry Co., Ltd.	(51) A41D 1/22	(73) Calzaturificio S.C.A.R.P.A. S.p.A.
(72) CHEN, Ping	A41D 15/00	(72) PARISOTTO, Davide
(51) A24F 40/48	(11) EP3527090	(31) 201900014124
A24F 40/42	(21) EP19156989.6	(32) 06.08.2019
A24F 40/10	(47) 12.07.2023	(33) Italy
(11) EP3162227	(22) 13.02.2019	(51) A43B 3/00
(21) EP15191933.9	(54) VARIABLE CLOTHES COMBINATION	A43B 7/16
(47) 12.07.2023	(73) Moos, Eugen	A43B 11/00
(22) 28.10.2015	(72) MOOS, Helena	A43B 23/02
	(31) 202018100804 U	A43B 23/08
	(32) 14.02.2018	(11) EP3902426
	(33) Germany	(21) EP19817104.3
	(51) A41D 13/005	(47) 12.07.2023
	D04B 1/14	
	A41D 19/00	
	A41C 1/08	



(87) US2019062400 02.07.2020	(11) EP3738458	(31) 201514746591
(22) 20.11.2019	(21) EP20174472.9	201562168836 P
(54) FOOTWEAR ELEMENT WITH LOCATING PEGS AND METHOD OF MANUFACTURING AN ARTICLE OF FOOTWEAR	(47) 12.07.2023	(32) 22.06.2015
(73) NIKE Innovate C.V.	(22) 13.05.2020	31.05.2015
(72) KILGORE, Elizabeth A.	(54) SPORTS FOOTWEAR COMPRISING A SHELL AND A CUFF ARTICULATED TO EACH OTHER	(33) United States of America United States of America
(31) 201862785963 P	(73) Tecnica Group S.p.A.	(51) A43D 8/32
(32) 28.12.2018	(72) GIROLIMETTO, Giovanni	A43D 95/00
(33) United States of America	ZAMPIERI, Claudio	A43D 95/02
(51) A43B 3/00	(31) 201900006872	A43D 95/16
A43B 13/02	(32) 15.05.2019	A43D 95/20
A43B 13/12	(33) Italy	A43D 95/22
A43B 13/18	(51) A43B 13/12	A43D 95/24
A43B 13/20	A43B 13/14	A43D 95/26
A43B 13/14	A43B 13/18	(11) EP4030955
(11) EP3977886	A43B 23/30	(21) EP20780886.6
(21) EP21208905.6	(11) EP3785561	(47) 12.07.2023
(47) 12.07.2023	(21) EP20201919.6	(87) US2020051023
(22) 18.05.2018	(47) 12.07.2023	25.03.2021
(54) MIDSOLE SYSTEM WITH GRADED RESPONSE	(22) 03.03.2017	(22) 16.09.2020
(73) NIKE Innovate C.V.	(54) ARTICLE OF FOOTWEAR WITH A HEEL EXTENDER	(54) BUFFING SYSTEM FOR FOOTWEAR
(72) ELDER, Zachary M.	(73) Nike Innovate C.V.	(73) NIKE Innovate C.V.
PEYTON, Lee D.	(72) CONANT, Drew	(72) LIN, Chia-Hung
CASE, Patrick	DAVERSA, Anthony P.	CHEN, Yi-Min
(31) 201762510002 P	WILLIAMS, Robert Charles, Jr.	WU, Hsien-Kuang
(32) 23.05.2017	(31) 201615063968	CHEN, Chun-Chieh
(33) United States of America	(32) 08.03.2016	WU, Hung-Yu
(51) A43B 3/00	(33) United States of America	(31) 201962900983 P
A43B 13/02	(51) A43B 13/18	(32) 16.09.2019
A43B 13/20	A43B 21/26	(33) United States of America
A43B 13/22	(11) EP3852568	(51) A43D 11/00
A43B 13/12	(21) EP19780489.1	D05B 19/12
(11) EP3984398	(47) 12.07.2023	A43B 23/02
(21) EP21212667.6	(87) US2019052031	A43D 111/00
(47) 12.07.2023	26.03.2020	A43D 119/00
(22) 18.05.2018	(22) 19.09.2019	D05B 15/02
(54) MIDSOLE WITH GRADED RESPONSE	(54) FOOTWEAR SOLE STRUCTURE	A43D 25/18
(73) Nike Innovate C.V.	(73) NIKE Innovate C.V.	(11) EP3939466
(72) ELDER, Zachary M.	(72) CALDWELL, Cailee M.	(21) EP21193951.7
CASE, Patrick	YETMAN, Krissy	(47) 12.07.2023
PEYTON, Lee D.	LARSON, Ryan R.	(22) 22.01.2015
(31) 201762510003 P	LINDNER, Troy C.	(54) AUTOMATED ASSEMBLY AND STITCHING OF SHOE PARTS
(32) 23.05.2017	GHEORGHIAN, Petre	(73) NIKE Innovate C.V.
(33) United States of America	MOSHOFISKY, Thea	(72) LEE, Kuo-Hung
(51) A43B 3/24	WOROBETS, Jay T.	JURKOVIC, Dragan
A43C 11/12	(31) 201916575375	WU, Hung-Yu
A43C 11/14	201962873086 P	LIU, Yen-Hsi
A43B 13/16	201862734026 P	LIAO, Chang-Chu
A43B 11/00	(32) 18.09.2019	(31) 201414162271
(11) EP3817614	11.07.2019	(32) 23.01.2014
(21) EP19744938.2	20.09.2018	(33) United States of America
(47) 12.07.2023	(33) United States of America United States of America United States of America	(51) A44C 5/14
(87) US2019039560	(51) A43D 3/02	A44C 5/00
09.01.2020	A43D 119/00	A44C 5/22
(22) 27.06.2019	(11) EP3760072	G04B 37/16
(54) CLOSURE MECHANISMS FOR ARTICLES OF FOOTWEAR	(21) EP20191930.5	G04G 17/00
(73) NIKE Innovate C.V.	(47) 12.07.2023	A44C 5/24
(72) MADDIX, Ryan J.	(22) 25.05.2016	(11) EP3714726
CHAN, Wesley K.	(54) SHOE LAST EXTENSION	(21) EP18878459.9
(31) 201862694878 P	(73) Nike Innovate C.V.	(47) 12.07.2023
(32) 06.07.2018	(72) HSIAO, Yu-Shu	(87) JP2018029983
(33) United States of America	JURKOVIC, Dragan	23.05.2019
(51) A43B 5/04	MARS, Philip	(22) 09.08.2018
	LIN, Chun-Chi	(54) BAND DEVICE AND WRISTWATCH
		(73) Sony Group Corporation
		(72) MATSUNAGA, Kentaro
		AONO, Tatsuhiro

(31) 2017222747	(72) PAN, Yuping	A46B 9/02
(32) 20.11.2017	(31) 201921999189 U	A45D 40/26
(33) Japan	201921467936 U	(11) EP3852577
(51) A45C 11/04	201921052794 U	(21) EP19790676.1
(11) EP3506785	(32) 18.11.2019	(47) 12.07.2023
(21) EP17851952.6	04.09.2019	(87) FR2019052201
(47) 12.07.2023	07.07.2019	26.03.2020
(87) RO2017000016	(33) China	(22) 19.09.2019
14.06.2018	China	(54) DEVICE FOR APPLICATION OF A
(22) 23.08.2017	China	FLUID PRODUCT
(54) SPECTACLE CASE	(51) A45D 31/00	(73) Société Industrielle de Matières
(73) Sabie, Razvan	(11) EP3641587	Plastiques
(72) Sabie, Razvan	(21) EP18803316.1	(72) DE BARDONNECHE, Eric
(31) 201600608	(47) 12.07.2023	(31) PCT/FR2018/052289
(32) 02.09.2016	(87) EP2018000497	(32) 19.09.2018
(33) Romania	16.05.2019	(33) World Intellectual Property Office (WIPO)
(51) A45C 11/20	(22) 31.10.2018	(51) A47B 3/08
A45C 13/28	(54) ATTACHING AN ARTIFICIAL	A47B 3/091
A47B 37/04	FINGERNAIL	(11) EP3449765
A47B 5/00	(73) Toussaint, Stephan	(21) EP18189210.0
(11) EP3841338	(72) Toussaint, Stephan	(47) 12.07.2023
(21) EP19852524.8	(31) 102017010335	(22) 15.08.2018
(47) 12.07.2023	(32) 08.11.2017	(54) FURNITURE LEG ASSEMBLY
(87) US2019047151	(33) Germany	(73) Gopak Limited
27.02.2020	(51) A45D 40/00	(72) McCaffrey, Andrew
(22) 20.08.2019	A45D 34/00	(31) 201714026
(54) CONTAINER WITH ONE OR MORE	(11) EP3797638	(32) 01.09.2017
TRAY RETENTION PORTIONS AND	(21) EP20197364.1	(33) United Kingdom
SUPPORT STAND	(47) 12.07.2023	(51) A47B 31/00
(73) Igloo Products Corp.	(22) 22.09.2020	A47B 81/00
(72) ESPINOSA, Herman Sebastian Cousin	(54) CREAM JAR	B62B 5/00
DUONG, Quang Lee	(73) Seidel GmbH & Co. KG	(11) EP3236808
(31) 201862720466 P	(72) JESBERG, Silke	(21) EP15874251.0
(32) 21.08.2018	RITZENHOFF, Andreas Franz Christian	(47) 12.07.2023
(33) United States of America	(31) 102019126132	(87) US2015067110
(51) A45D 1/06	(32) 27.09.2019	30.06.2016
A45D 1/04	(33) Germany	(22) 21.12.2015
A45D 2/00	(51) A45F 3/04	(54) CART WITH REMOVABLE WHEEL
A45D 1/00	(11) EP3905925	BASE
(11) EP3547868	(21) EP20702550.3	(73) Veltek Associates, INC.
(21) EP17804197.6	(47) 12.07.2023	(72) GUESBLAT, Vladislav
(47) 12.07.2023	(87) US2020012390	CHURCHVARA, Jeffrey
(87) EP2017080532	09.07.2020	VELLUTATO, Arthur L. Jr
07.06.2018	(22) 06.01.2020	GUDESBLAT, Yefim
(22) 27.11.2017	(54) CINCH PACK	(31) 201562109873 P
(54) DEVICE FOR TREATING THE HAIR,	(73) The North Face Apparel Corp.	201462096648 P
USING A REFILL	(72) GOULET, Alexandre	(32) 30.01.2015
(73) L'OREAL	COUTANT, Andrew	24.12.2014
SEB S.A.	(31) 201916239678	(33) United States of America
(72) NUZZO, Stefania	(32) 04.01.2019	United States of America
POLLET, Cédric	(33) United States of America	(51) A47B 53/02
FEREYRE, Régis	(51) A46B 15/00	(11) EP3970562
BONNEMAIRE, Baptiste	(11) EP3462983	(21) EP21192029.3
VACHERON, Xavier	(21) EP17726904.0	(47) 12.07.2023
MAISONNEUVE, Martial	(47) 12.07.2023	(22) 18.08.2021
(31) 1661809	(87) EP2017062545	(54) STORAGE SYSTEM
(32) 01.12.2016	30.11.2017	(73) Bruynzeel Storage Systems
(33) France	(22) 24.05.2017	(72) VAN DER VELDEN, Silvester, Helena,
(51) A45D 26/00	(54) SYSTEMS FOR OPTICAL SENSING OF	Gerardus, Roland
(11) EP3991596	FORCES IN A TOOTHBRUSH	(31) 2026479
(21) EP19937278.0	(73) Koninklijke Philips N.V.	(32) 16.09.2020
(47) 12.07.2023	(72) BOERE, Stijn, Willem	(33) Netherlands
(87) CN2019120457	MEHENDEALE, Aditya	(51) A47B 88/90
14.01.2021	(31) 201662340608 P	A47B 88/95
(22) 23.11.2019	(32) 24.05.2016	(11) EP3871561
(54) PORTABLE DEPILATION DEVICE	(33) United States of America	(21) EP20190640.1
(73) Shenzhen Ulike Smart Electronics Co.,	(51) A46D 1/00	(47) 12.07.2023
Ltd		(22) 12.08.2020

(54) FURNITURE ASSEMBLY WITH A MOUNTING DEVICE AND MOUNTING METHOD THEREOF	(32) 25.05.2017 (33) United States of America	(54) SMART UNATTENDED HOME DELIVERY BOX
(73) King Slide Works Co., Ltd. King Slide Technology Co., Ltd.	(51) A47F 3/04 A47F 10/06 F25D 11/02 F25D 17/08 A47B 31/02 F25D 17/06	(73) Direct4me d.o.o. (72) CHOWDHURY, Amor GOSTE, Luka IGREC, Dalibor URBANIJA, Milos
(72) CHEN, Ken-Ching HUANG, Ci-Bin SU, Fang-Cheng TANG, Yue-Hua WANG, Chun-Chiang	(11) EP3148380 (21) EP15799208.2 (47) 12.07.2023 (87) SE2015050536 03.12.2015	(51) A47H 5/032 A47H 1/144 A47H 1/04 (11) EP3735870 (21) EP19173494.6 (47) 12.07.2023 (22) 09.05.2019
(31) 109106364 (32) 25.02.2020 (33) Taiwan, Chinese Taipei	(22) 12.05.2015 (54) AN IMPROVED REFRIGERATED FOOD BAR ARRANGEMENT	(54) ELECTRIC CURTAIN TRACK STRUCTURE
(51) A47C 3/025 A47C 1/032 A47C 3/026	(73) Picadeli AB (72) PALMNÄS, Markus (31) 1450884 1450665 1450649	(73) Arlinea Industries Co. (72) Yu, Yu-Heng
(11) EP3626127 (21) EP19194434.7 (47) 12.07.2023 (22) 29.08.2019	(32) 10.07.2014 02.06.2014 29.05.2014	(51) A47H 27/00 E06B 7/28 E06B 9/17 (11) EP3884816 (21) EP21161188.4 (47) 12.07.2023 (22) 08.03.2021
(54) CHAIR WITH HINGE ASSEMBLY	(33) Sweden Sweden Sweden	(54) FLOWER BOX HOLDER FOR WINDOW FRAMES
(73) Interstuhl Büromöbel GmbH & Co. KG Figuroa Büro für Gestaltung GmbH	(31) 102018123414 (32) 24.09.2018 (33) Germany	(73) Althenhölscher, Thomas Sommer, Peter Storck, Thomas (72) Storck, Thomas Sommer, Peter Althenhölscher, Thomas
(72) Figuroa, Daniel	(31) 102018123414 (32) 24.09.2018 (33) Germany	(31) 102020001700 (32) 14.03.2020 (33) Germany
(31) 102018123414 (32) 24.09.2018 (33) Germany	(51) A47G 1/16 A47G 1/20 (11) EP4056078 (21) EP21161316.1 (47) 12.07.2023 (22) 08.03.2021	(51) A47J 27/00 A47J 27/05 (11) EP3544472 (21) EP17801050.0 (47) 12.07.2023 (87) EP2017080004 31.05.2018 (22) 22.11.2017
(51) A47C 7/62 A47C 7/72 (11) EP4056074 (21) EP21383079.7 (47) 12.07.2023 (22) 30.11.2021	(54) HEIGHT-ADJUSTABLE HANGER AND HANGER ATTACHMENT KIT	(54) TABLE-TOP COOKING DEVICE
(54) RECLINING FURNITURE WITH HIDING MECHANISM	(73) Becker, Stefan Harold Brockstedt, Gero Han (72) Brockstedt, Gero Han Becker, Stefan Harold	(73) Koninklijke Philips N.V. (72) SAMONIGG, Gert STARMANS, Franciscus, Jozef, Marie MATUSIN, Marta SCHMOELLER, Christian
(73) Fama Sofas, S.L.U. (72) Lopez Gil, Felix (31) 202130487 U (32) 10.03.2021 (33) Spain	(51) A47G 19/14 A47J 31/06 A47J 27/21 A47J 31/20 (11) EP3695753 (21) EP18866328.0 (47) 12.07.2023 (87) CN2018098445 18.04.2019 (22) 03.08.2018	(31) 16200267 (32) 23.11.2016 (33) European Patent Office (EPO)
(51) A47C 20/04 A47C 20/08 (11) EP3267845 (21) EP16709470.5 (47) 12.07.2023 (87) EP2016055381 15.09.2016 (22) 11.03.2016	(54) BEVERAGE BREWING DEVICE	(51) A47J 27/00 A47J 37/06 (11) EP3987986 (21) EP21203635.4 (47) 12.07.2023 (22) 20.10.2021
(54) ADJUSTABLE BED	(73) Guangdong Xinbao Electrical Appliances Holdings Co., Ltd.	(54) COOKING DEVICE
(73) Motus Mechanics Limited	(72) GUO, Jiangang JI, Peng (31) 201721313187 U (32) 12.10.2017 (33) China	(73) Roux, Nolwenn (72) Roux, Nolwenn (31) 2010737 (32) 20.10.2020 (33) France
(72) BROWN, Paul (31) 201504140 (32) 11.03.2015 (33) United Kingdom	(51) A47G 29/14 H04L 9/32 H04W 12/06 G06Q 10/08 (11) EP3799554 (21) EP18749342.4 (47) 12.07.2023 (87) EP2018070590 06.02.2020 (22) 30.07.2018	(51) A47J 31/06 A47J 31/14
(51) A47C 27/22 (11) EP3629843 (21) EP18806460.4 (47) 12.07.2023 (87) US2018034737 29.11.2018 (22) 25.05.2018		
(54) SEATING SYSTEM HAVING PRESSURE COMPENSATING FLUID WITH THERMAL ABSORPTION AND DISTRIBUTION PROPERTIES		
(73) Sunrise Medical (US) LLC		
(72) LALOUETTE, Marc (31) 201762510814 P		

(11) EP4066699	09.05.2017	(32) 01.02.2018
(21) EP21204370.7	(33) World Intellectual Property Office (WIPO)	(33) United States of America
(47) 12.07.2023	European Patent Office (EPO)	
(22) 25.10.2021	(51) A47J 42/06	(51) A47K 5/00
(54) COFFEE MACHINE FOR WIRELESSLY DRIVING COFFEE CUP HOLDER TO ROTATE	A47J 42/38	A47K 5/12
(73) Shenzhen Buydeem Technology Co.	A47J 42/46	A62C 2/06
(72) ZHANG, George Mohan	(11) EP4140372	G11B 33/02
CHEN, Huajin	(21) EP21201964.0	A62C 3/06
(31) 202110361019	(47) 12.07.2023	(11) EP3972468
(32) 02.04.2021	(22) 11.10.2021	(21) EP20732112.6
(33) China	(54) ELECTRIC PEPPER GRINDER	(47) 12.07.2023
(51) A47J 36/08	(73) Zhuhai Kelitong Electronic Co., Ltd	(87) EP2020064147
A47J 36/14	(72) Xiaoxian, Song	26.11.2020
A47G 19/14	(31) 202111008969	(22) 20.05.2020
B65D 47/08	(32) 31.08.2021	(54) A FIRE RESISTANT CABINET
(11) EP3973827	(33) China	(73) IWI TECHNOLOGY II APS
(21) EP20198975.3	(51) A47J 43/042	(72) FORSBERG, Lars
(47) 12.07.2023	A47J 31/60	(31) PA201970327
(22) 29.09.2020	(11) EP3782521	(32) 23.05.2019
(54) OPENING MECHANISM FOR A POURING CAP OF A LID FOR A FOOD RECEPTACLE	(21) EP20190523.9	(33) Denmark
(73) BSH Hausgeräte GmbH	(47) 12.07.2023	(51) A47K 5/12
(72) Brecko, Ales	(22) 11.08.2020	A47K 5/14
Kovacec, Bostjan	(54) METHOD AND STORAGE MEDIUM FOR DRYING FOOD PROCESSOR, AND FOOD PROCESSOR	B05B 11/00
Hribersek, Anton	(73) BSH Hausgeräte GmbH	G01F 11/02
Krivec, Luka	(72) Lu, Peng	B05B 1/00
(51) A47J 36/32	Yuan, Chao	(11) EP3549498
(11) EP3964106	Wang, Dong	(21) EP19167011.6
(21) EP21187859.0	(31) 201910778355	(47) 12.07.2023
(47) 12.07.2023	(32) 22.08.2019	(22) 03.04.2019
(22) 27.07.2021	(33) China	(54) FLUID PUMP WITH WHISTLE
(54) INDUCTIVELY POWERED KITCHEN APPLIANCE AND CONTROL METHOD THEREOF	(51) A47J 43/06	(73) Op-Hygiene IP GmbH
(73) Arçelik Anonim Sirketi	A47J 43/07	(72) JONES, Andrew
(72) SEZER, Canberk	A45C 3/00	OPHARDT, Heiner
SINIRLIOGLU, Sercan	A45C 5/08	(31) 3000244
AVCI, Cem	A45C 13/02	(32) 04.04.2018
POLAT, Akif Hakki	A45C 13/10	(33) Canada
KALA, Bilent	(11) EP2575578	(51) A47K 10/38
(31) 202013193	(21) EP11719525.5	(11) EP4021263
(32) 20.08.2020	(47) 12.07.2023	(21) EP20740065.6
(33) Türkiye	(87) EP2011057485	(47) 12.07.2023
(51) A47J 36/32	01.12.2011	(87) FR2020050907
A23L 5/10	(22) 10.05.2011	04.03.2021
A23L 19/00	(54) KITCHEN APPLIANCE HAVING A STORAGE DEVICE	(22) 28.05.2020
A47J 27/00	(73) BSH Hausgeräte GmbH	(54) PRECUT WIPING MATERIAL DISPENSER IN THE FORM OF A SPOOL FROM WHICH THE MATERIAL CAN BE UNWOUND IN A STRIP, AND USE OF SUCH A DISPENSER
(11) EP3582660	(72) KRÜGER, Tobias	(73) Granger, Maurice
(21) EP18707859.7	WICHERT, Karlne	(72) Granger, Maurice
(47) 12.07.2023	(31) 102010021916	(31) 1909506
(87) EP2018053374	(32) 28.05.2010	(32) 29.08.2019
23.08.2018	(33) Germany	(33) France
(22) 12.02.2018	(51) A47K 1/02	(51) A47K 13/12
(54) TEMPERATURE CONTROL DEVICE, FOOD COOKING DEVICE AND METHOD FOR CONTROLLING A HEATING UNIT FOR COOKING FOOD	F16K 31/60	(11) EP3622868
(73) Koninklijke Philips N.V.	E03C 1/04	(21) EP19194306.7
(72) SU, Guangming	B67D 3/02	(47) 12.07.2023
CHEN, Yun	A47K 3/28	(22) 29.08.2019
LU, Weihua	(11) EP3530163	(54) HINGE BEARING DEVICE FOR PIVOTABLE FASTENING OF A COVER AND / OR A SEAT TO A BASIN OF A TOILET
SUN, Wen	(21) EP19154825.4	(73) EVAC GmbH
(31) PCT/CN2017/000182	(47) 12.07.2023	(72) BERSCHIN, Alexander
17170153	(22) 31.01.2019	(31) 202018105278 U
(32) 17.02.2017	(54) HANDWASHING VALVE STRUCTURE	(32) 14.09.2018
	(73) Kohler Mira Limited	(33) Germany
	(72) Caldwell, Robert	(51) A47K 13/12
	Perry, Thomas Philip	
	May, Adam Luke	
	Bourne, James	
	(31) 201862624906 P	

A47K 13/24	A47L 9/28	(11) EP3932279
(11) EP4094654	(11) EP4091514	(21) EP21192883.3
(21) EP22164503.9	(21) EP21175076.5	(47) 12.07.2023
(47) 12.07.2023	(47) 12.07.2023	(22) 13.09.2016
(22) 25.03.2022	(22) 20.05.2021	(54) ROBOT CLEANER AND METHOD FOR
(54) HINGED STRUCTURE FOR TOILET	(54) SUCTION DEVICE AND SUCTION	CONTROLLING THE SAME
COVER PLATE	HOSE FOR SUCH A SUCTION DEVICE	(73) Samsung Electronics Co., Ltd.
(73) Zhongshan Meitu Plastic Ind. Co., Ltd.	(73) Valentini, Guido	(72) JEONG, Yeon Kyu
(72) ZHANG, Hai	(72) Valentini, Guido	SO, Jea Yun
LIANG, Weinan	(51) A47L 9/00	KIM, Shin
MA, Jiafu	(11) EP3656269	YOON, Sang Sik
ZHOU, Wenhui	(21) EP17918202.7	(31) 20150131497
HUANG, Haojia	(47) 12.07.2023	(32) 17.09.2015
(31) 202121150566 U	(87) KR2017009045	(33) Korea (Republic)
(32) 26.05.2021	24.01.2019	(51) A47L 11/10
(33) China	(22) 18.08.2017	A47L 11/24
(51) A47K 13/12	(54) CLEANER AND CONTROL METHOD	A47L 11/40
A47K 13/24	THEREOF	(11) EP3386364
(11) EP4094653	(73) LG Electronics Inc.	(21) EP16823097.7
(21) EP22164495.8	(72) LEE, Sunghun	(47) 12.07.2023
(47) 12.07.2023	PARK, Sangyeol	(87) US2016065834
(22) 25.03.2022	(31) 20170092901	15.06.2017
(54) HINGED STRUCTURE FOR TOILET	(32) 21.07.2017	(22) 09.12.2016
COVER PLATE	(33) Korea (Republic)	(54) SURFACE MAINTENANCE MACHINE
(73) Zhongshan Meitu Plastic Ind. Co., Ltd.	(51) A47L 9/02	(73) Tennant Company
(72) ZHOU, Wenhui	A47L 9/04	(72) DICKRELL, Martin L.
ZHANG, Hai	(11) EP3646769	LEHMAN, Ronald W.
HUANG, Haojia	(21) EP19203328.0	DIMOVSKI, Michael M.
MA, Jiafu	(47) 12.07.2023	ICKES, John C.
LIANG, Weinan	(22) 16.09.2015	SEDAM, Kyle D.
(31) 202121150059 U	(54) CLEANING SYSTEM FOR	WILMO, Michael S.
(32) 26.05.2021	AUTONOMOUS ROBOT	STOCK, Jacob L.
(33) China	(73) iRobot Corporation	(31) 201662360661 P
(51) A47K 13/12	(72) LEWIS, Oliver	201562265063 P
A47K 13/26	(31) 201414568180	(32) 11.07.2016
A47K 13/24	(32) 12.12.2014	09.12.2015
(11) EP4094655	(33) United States of America	(33) United States of America
(21) EP22164636.7	(51) A47L 9/04	United States of America
(47) 12.07.2023	(11) EP4025105	(51) A47L 15/16
(22) 28.03.2022	(21) EP19765718.2	A47L 15/42
(54) SELF-LOCKING STRUCTURE FOR	(47) 12.07.2023	(11) EP3791768
TOILET SEAT BUMPER	(87) EP2019073879	(21) EP20193634.1
(73) Zhongshan Meitu Plastic Ind. Co., Ltd.	11.03.2021	(47) 12.07.2023
(72) LIANG, Weinan	(22) 06.09.2019	(22) 31.08.2020
ZHANG, Hai	(54) FLOOR CLEANING MACHINE AND	(54) A DISHWASHER WITH IMPROVED
ZHOU, Wenhui	METHOD FOR OPERATING A FLOOR	WASHING EFFECTIVENESS
MA, Jiafu	CLEANING MACHINE	(73) Arçelik Anonim Sirketi
HUANG, Haojia	(73) Alfred Kärcher SE & Co. KG	(72) KOC, Yusuf
(31) 202121150056 U	(72) MOSER, Fabian	KOSAR, Murat
(32) 26.05.2021	SCHARMACHER, Michael	BALKAN, Alper
(33) China	(51) A47L 9/24	COBAN, Omer Burak
(51) A47L 5/14	(11) EP3858207	AYATA AKKAS, Nevin
A47L 7/04	(21) EP21153755.0	BAYAV, Furkan
(11) EP3790437	(47) 12.07.2023	(31) 201914029
(21) EP19719851.8	(22) 27.01.2021	(32) 16.09.2019
(47) 12.07.2023	(54) ADAPTER DEVICE FOR A CORDLESS	(33) Türkiye
(87) EP2019060509	ELECTRIC VACUUM CLEANER	(51) A47L 15/42
14.11.2019	(73) New Ermes Europe S.r.l.	(11) EP3876809
(22) 24.04.2019	(72) ROSCHI, Riccardo	(21) EP19779875.4
(54) AIR EJECTOR SYSTEM FOR A	(31) 202000001555	(47) 12.07.2023
PORTABLE DRY VACUUM CLEANING	(32) 28.01.2020	(87) EP2019076356
UNIT	(33) Italy	14.05.2020
(73) Hilti Aktiengesellschaft	(51) A47L 9/28	(22) 30.09.2019
(72) WÖRZ, Sonya	B25J 9/00	(54) A DISHWASHER COMPRISING A
(31) 18171424	B25J 11/00	FILTER
(32) 09.05.2018	G05D 1/02	(73) Arçelik Anonim Sirketi
(33) European Patent Office (EPO)	B25J 9/16	(72) ONAL, Oguz Altug
(51) A47L 7/00		ASLAN, Ercument

ARAS, Nasir Efe	(21) EP19784244.6	A61B 1/00
HASKILIC, Hakan	(47) 12.07.2023	A61B 1/31
(31) 201816908	(87) KR2019004365	A61B 1/12
(32) 09.11.2018	17.10.2019	A61B 1/06
(33) Türkiye	(22) 11.04.2019	A61B 1/018
(51) A47L 15/42	(54) DISHWASHER	A61B 1/015
(11) EP3945978	(73) Samsung Electronics Co., Ltd.	(11) EP3772317
(21) EP20706713.3	(72) YOO, Seung Wan	(21) EP19190493.7
(47) 12.07.2023	BÜSING, Johannes	(47) 12.07.2023
(87) EP2020054714	HAN, Sung Soo	(22) 07.08.2019
08.10.2020	YANG, Ji Sun	(54) ENDOSCOPE
(22) 24.02.2020	(31) 20180042592	(73) ETH Zürich
(54) A DISHWASHER FOR EMITTING LIGHT	(32) 12.04.2018	(72) Nelson, Bradley J.
ONTO A FLOOR	(33) Korea (Republic)	Lyttle, Sean L.
(73) Arçelik Anonim Sirketi	(51) A47L 15/50	(51) A61B 1/12
(72) YALCIN, Serkan	(11) EP3791770	A61B 1/253
DIKSAN, Mehmet	(21) EP20193643.2	A61B 1/04
(31) 201905157	(47) 12.07.2023	F21V 29/77
(32) 05.04.2019	(22) 31.08.2020	H01L 23/467
(33) Türkiye	(54) A DISHWASHER COMPRISING A	A61B 1/00
(51) A47L 15/42	BOTTLE HOLDER	(11) EP3616599
A47L 15/48	(73) Arçelik Anonim Sirketi	(21) EP19194111.1
(11) EP3841946	(72) ARAS, Nasir Efe	(47) 12.07.2023
(21) EP20210340.4	BASARAN, Alper	(22) 28.08.2019
(47) 12.07.2023	AKCA, Cağatay	(54) IMAGE CAPTURING DEVICE
(22) 27.11.2020	DIKSAN, Mehmet	(73) J. MORITA MFG. CORP.
(54) A DISHWASHER COMPRISING	ELIKALFA KOKSAL, Alev	(72) TANAKA, Tsuyoshi
AN AUTOMATIC DOOR OPENING	(31) 201914019	WAKAZOME, Naonori
MECHANISM	(32) 16.09.2019	NISHIMURA, Mikinori
(73) Arçelik Anonim Sirketi	(33) Türkiye	(31) 2018162937
(72) KONUKSEVEN, Erhan İlhan	(51) A61B 1/00	(32) 31.08.2018
AK, Gokhan	A61M 16/04	(33) Japan
GOKDERE, Nurgul	A61B 17/00	(51) A61B 3/032
NUMANOGLU, Guvenc	A61M 25/02	A61B 3/11
(31) 201921372	A61M 25/04	(11) EP2427095
(32) 24.12.2019	(11) EP3876812	(21) EP10775298.2
(33) Türkiye	(21) EP19881880.9	(47) 12.07.2023
(51) A47L 15/42	(47) 12.07.2023	(87) US2010034084
A47L 15/50	(87) US2019059321	18.11.2010
(11) EP3838101	14.05.2020	(22) 07.05.2010
(21) EP20203963.2	(22) 01.11.2019	(54) SHAPE DISCRIMINATION VISION
(47) 12.07.2023	(54) INTRODUCING STYLET	ASSESSMENT AND TRACKING
(22) 26.10.2020	(73) Gardner, Glenn P.	SYSTEM
(54) DISH TREATING APPLIANCE WITH A	(72) Gardner, Glenn P.	(73) Genentech, Inc.
DISH RACK AND RAIL ASSEMBLY	(31) 201962916386 P	(72) WANG, Yi-Zhong
(73) Whirlpool Corporation	201862756223 P	BARTLETT, Michael
(72) Fulbright, Benjamin Nicholas	(32) 17.10.2019	(31) 251159 P
Gatt, Michael Earl	06.11.2018	176885 P
Nearpass, Charles Ellsworth	(33) United States of America	(32) 13.10.2009
O'Brien, Thomas Matthew	United States of America	09.05.2009
(31) 201916723239	(51) A61B 1/00	(33) United States of America
(32) 20.12.2019	G06F 13/00	United States of America
(33) United States of America	H04Q 9/00	(51) A61B 3/10
(51) A47L 15/44	(11) EP3780524	A61B 3/103
D06F 39/02	(21) EP19774443.6	G02C 7/02
(11) EP3517016	(47) 12.07.2023	(11) EP3610781
(21) EP18154080.8	(87) JP2019002932	(21) EP19196187.9
(47) 12.07.2023	03.10.2019	(47) 12.07.2023
(22) 30.01.2018	(22) 29.01.2019	(22) 06.02.2018
(54) DISPENSER FOR DELIVERING	(54) PROCESSOR DEVICE FOR	(54) PRESCRIPTION DETERMINATION
A CHEMICAL AGENT FROM A	ENDOSCOPE, AND ENDOSCOPE	(73) Carl Zeiss Vision International GmbH
CONTAINER LINKED TO THE	DATA COLLECTION SERVER	(72) Spratt, Ray Steven
DISPENSER	(73) FUJIFILM Corporation	(31) PCT/US2017/016852
(73) Hagleitner, Hans Georg	(72) MIURA Nobuyuki	(32) 07.02.2017
(72) Hagleitner, Hans Georg	(31) 2018063495	(33) World Intellectual Property Office (WIPO)
(51) A47L 15/48	(32) 29.03.2018	(51) A61B 3/113
(11) EP3760096	(33) Japan	G02B 27/00
	(51) A61B 1/05	G06F 3/01

A61B 3/10	A61B 5/145	(54) SYSTEM, DEVICE AND METHOD
G06V 40/19	(11) EP3082574	FOR ASSISTANCE WITH CERVICAL
(11) EP2975997	(21) EP14821437.2	ULTRASOUND EXAMINATION
(21) EP14770861.4	(47) 12.07.2023	(73) Koninklijke Philips N.V.
(47) 12.07.2023	(87) US2014070104	(72) ERRICO, Claudia
(87) CA2014050282	25.06.2015	BHARAT, Shyam
25.09.2014	(22) 12.12.2014	SRINIVASA NAIDU, Raghavendra
(22) 17.03.2014	(54) SYSTEMS AND METHODS FOR	(31) 201962849219 P
(54) SYSTEM AND METHOD FOR ON-AXIS	MONITORING AND MANAGING LIFE	(32) 17.05.2019
EYE GAZE TRACKING	OF A BATTERY IN AN ANALYTE	(33) United States of America
(73) Miramatrix Inc.	SENSOR SYSTEM WORN BY A USER	(51) A61B 5/0205
(72) SULLIVAN, Nicholas J.	(73) Dexcom, Inc.	A61B 5/0215
(31) 201361802881 P	(72) KAMATH, Apurv, Ullas	A61B 5/145
(32) 18.03.2013	HERNANDEZ-ROSAS, Jose, Hector	A61N 1/36
(33) United States of America	VANSLYKE, Stephen, J.	A61N 1/38
(51) A61B 3/12	SIMPSON, Peter, C.	A61B 5/00
A61B 3/15	DERVAES, Mark	A61B 5/0245
A61B 3/16	MILLER, Tom	A61B 5/024
A61B 3/00	LARVENZ, Shawn	A61B 5/08
A61B 3/117	(31) 201361916778 P	A61B 5/053
A61B 3/135	(32) 16.12.2013	A61B 5/026
(11) EP2997881	(33) United States of America	A61B 5/11
(21) EP15185730.7	(51) A61B 5/00	(11) EP3148422
(47) 12.07.2023	A61B 5/24	(21) EP15747589.8
(22) 17.09.2015	(11) EP2956052	(47) 12.07.2023
(54) OPHTHALMIC APPARATUS	(21) EP14707900.8	(87) US2015032649
(73) NIDEK CO., LTD	(47) 12.07.2023	10.12.2015
(72) SHIMIZU, Kazunari	(87) US2014016443	(22) 27.05.2015
SAKASHITA, Yusuke	21.08.2014	(54) EVALUATION OF HEMODYNAMIC
(31) 2014192058	(22) 14.02.2014	RESPONSE TO ATRIAL FIBRILLATION
(32) 20.09.2014	(54) ELECTRODE SYSTEMS FOR USE	(73) Cardiac Pacemakers, Inc.
(33) Japan	WITH MEDICAL MONITORING	(72) ZHANG, Yi
(51) A61B 5/00	SYSTEMS	MASKARA, Barun
A61B 5/01	(73) Senzime AB (publ.)	WARIAR, Ramesh
(11) EP3849402	(72) GADSBY, Peter Donald	THAKUR, Pramodsingh Hirasingh
(21) EP19769750.1	(31) 201361765355 P	AN, Qi
(47) 12.07.2023	(32) 15.02.2013	(31) 201462006595 P
(87) EP2019074294	(33) United States of America	(32) 02.06.2014
19.03.2020	(51) A61B 5/00	(33) United States of America
(22) 12.09.2019	A61B 5/339	(51) A61B 5/021
(54) SENSOR PATCH HAVING A	(11) EP3488772	A61B 5/024
PROTECTIVE LAYER	(21) EP18208987.0	A61B 5/113
(73) Steadysense GmbH	(47) 12.07.2023	A61B 5/00
(72) KOELE, Werner	(22) 28.11.2018	D02G 3/44
GASTEINER, Peter	(54) ECG DATA CLASSIFICATION FOR	(11) EP3752054
(31) 102019119701	USE IN FACILITATING DIAGNOSIS OF	(21) EP18796153.7
102018122420	CARDIAC RHYTHM DISORDERS WITH	(47) 12.07.2023
(32) 22.07.2019	THE AID OF A DIGITAL COMPUTER	(87) US2018052583
13.09.2018	(73) Bardy Diagnostics, Inc.	03.10.2019
(33) Germany	(72) DREISBACH, Ezra M.	(22) 25.09.2018
Germany	BARDY, Gust H.	(54) FABRIC-BASED ITEMS WITH
(51) A61B 5/00	(31) 201815934888	STRETCHABLE BANDS
A61B 5/026	201762591715 P	(73) Apple Inc.
(11) EP3439542	(32) 23.03.2018	(72) SUNSHINE, Daniel D.
(21) EP17717368.9	28.11.2017	GRENA, Benjamin J.
(47) 12.07.2023	(33) United States of America	PODHAJNY, Daniel A.
(87) EP2017058453	United States of America	GUTERMAN, Jerzy S.
12.10.2017	(51) A61B 5/00	KEATING, Steven J.
(22) 07.04.2017	A61B 8/12	KINDLON, David M.
(54) DENTAL PROBE	A61B 8/08	LU, Jessica J.
(73) VDW GmbH	A61B 8/00	(31) 201816140419
(72) ERTL, Thomas	A61B 5/107	201862649505 P
SAVIC, Alexander	(11) EP3968862	(32) 24.09.2018
KARAZIVAN, Naim	(21) EP20726092.8	28.03.2018
(31) 16164539	(47) 12.07.2023	(33) United States of America
(32) 08.04.2016	(87) EP2020063448	United States of America
(33) European Patent Office (EPO)	26.11.2020	(51) A61B 5/024
(51) A61B 5/00	(22) 14.05.2020	A61B 5/022

A61B 5/0225	(31) 201662337408 P	(54) SYSTEM AND METHOD FOR HUMAN
A61B 5/00	(32) 17.05.2016	GAIT ANALYSIS
(11) EP3908176	(33) United States of America	(73) Linder GmbH
(21) EP19817799.0	(51) A61B 5/08	(72) PITTERS, Helmut H.
(47) 12.07.2023	A61B 5/083	(31) 18208400
(87) FI2019050807	A61B 5/00	(32) 26.11.2018
16.07.2020	(11) EP3328276	(33) European Patent Office (EPO)
(22) 13.11.2019	(21) EP16831300.5	(51) A61B 5/12
(54) AN APPARATUS, METHOD AND	(47) 12.07.2023	H04B 1/66
COMPUTER PROGRAM FOR	(87) US2016044288	G10L 19/02
MEASURING FUNCTIONALITY OF AN	02.02.2017	(11) EP3718476
ARTERIAL SYSTEM	(22) 27.07.2016	(21) EP19166852.4
(73) Turun yliopisto	(54) APPARATUS RELATED	(47) 12.07.2023
(72) PANULA, Tuukka	TOMONITORING METABOLISM	(22) 02.04.2019
KAISTI, Matti	(73) Massachusetts Institute of Technology	(54) SYSTEMS AND METHODS FOR
PÄNKÄÄLÄ, Mikko	(72) CANDELL, Lawrence M.	EVALUATING HEARING HEALTH
KOIVISTO, Tero	SHAW, Gary A.	(73) Mimi Hearing Technologies GmbH
(31) 20195009	FERRAILOLO, Christopher	(72) KNOOK, Guido
(32) 09.01.2019	ZOGBI, George	Clark, Nicholas R.
(33) Finland	SIEGEL, Andrew M.	
(51) A61B 5/053	(31) 201562197324 P	(51) A61B 5/145
(11) EP3787496	(32) 27.07.2015	A61B 5/00
(21) EP19701897.1	(33) United States of America	G16H 40/63
(47) 12.07.2023	(51) A61B 5/11	G16H 40/67
(87) GB2019000008	(11) EP3609403	H04B 17/23
07.11.2019	(21) EP18721833.4	H04W 4/38
(22) 12.01.2019	(47) 12.07.2023	H04W 4/80
(54) DETECTING IRREGULARITIES IN	(87) FI2018050258	H04W 12/06
BREAST TISSUE	18.10.2018	H04W 74/04
(73) Zedsen Limited	(22) 10.04.2018	H04W 12/069
(72) MAMIGONIANS, Hrand Mami	(54) AN APPARATUS, METHOD AND	H04W 12/33
SULAIMALEBBE, Aslam	SOFTWARE APPLICATION FOR	H04Q 9/00
(31) 201807090	PHYSICAL COACHING	(11) EP3487405
(32) 30.04.2018	(73) Zuperjump Oy	(21) EP17831635.2
(33) United Kingdom	(72) RUOKONEN, Arto	(47) 12.07.2023
(51) A61B 5/0536	(31) 20175334	(87) US2017042402
A61M 16/00	(32) 10.04.2017	25.01.2018
A61B 5/00	(33) Finland	(22) 17.07.2017
A61B 5/085	(51) A61B 5/11	(54) SYSTEM AND METHOD FOR
A61B 5/08	A61B 5/00	WIRELESS COMMUNICATION OF
(11) EP3725222	(11) EP3946048	GLUCOSE DATA
(21) EP20000151.9	(21) EP20713622.7	(73) Dexcom, Inc.
(47) 12.07.2023	(47) 12.07.2023	(72) VALDES, Jorge
(22) 14.04.2020	(87) EP2020058014	DERVAES, Mark
(54) SYSTEM AND VENTILATOR FOR	08.10.2020	PASCUAL, Francis William
REAL-TIME DETERMINATION OF	(22) 23.03.2020	WEDEKIND, Jeffrey R.
LOCAL STRESS OF A LUNG DURING	(54) METHOD AND SYSTEM FOR	HAMPAPURAM, Hari
ARTIFICIAL RESPIRATION	TRACKING MOVEMENT OF A PERSON	COHEN, Eric
(73) Löwenstein Medical Technology S.A.	WITH WEARABLE SENSORS	MANDAPAKA, Aditya
(72) Kremer, Peter	(73) Sword Health, S.A.	MENSINGER, Michael Robert
Tusman, Gerado	(72) RAMALHO FERREIRA, Marta Maria	BURNETTE, Douglas William
Pulletz, Sven	FERREIRA MATOS, Ana Clara	(31) 201662364771 P
(31) 102019109932	MARQUES GABRIEL, Ivo Emanuel	(32) 20.07.2016
(32) 15.04.2019	FERRO BENTO, Virgílio António	(33) United States of America
(33) Germany	OLIVEIRA SANTOS, Pedro Henrique	(51) A61B 5/145
(51) A61B 5/08	PINTO COELHO, Luís Ungaro	A61B 5/1473
(11) EP3457938	(31) 19398003	A61B 5/1486
(21) EP17798823.5	(32) 29.03.2019	(11) EP3771413
(47) 12.07.2023	(33) European Patent Office (EPO)	(21) EP20189113.2
(87) IB2017000667	(51) A61B 5/11	(47) 12.07.2023
23.11.2017	A61B 5/00	(22) 03.08.2020
(22) 17.05.2017	G06T 7/20	(54) METHOD FOR MANUFACTURING
(54) DEVICE, SYSTEM, AND METHOD FOR	(11) EP3886700	IMPLANTABLE MICRO-BIOSENSOR
ASSESSING SLEEP DISORDERS	(21) EP19782611.8	(73) Bionime Corporation
(73) Dormotech Medical Ltd.	(47) 12.07.2023	(72) CHEN, Chieh-Hsing
(72) BARNEA, Ofer	(87) EP2019077113	CHEN, Chi-Hao
NASER, Abd, El-kader	04.06.2020	CHEN, Chien-Chung
ZUCKER, Shlomo	(22) 07.10.2019	HUANG, Chun-Mu
		CHANG, Heng-Chia



(31) 201962882162 P	(73) Centro Nacional de Investigaciones Cardiovasculares Carlos III (F.S.P.)	(11) EP3618716
(32) 02.08.2019	Fundación Para La Investigación Biomédica Del Hospital Clínico San Carlos	(21) EP18723459.6
(33) United States of America		(47) 12.07.2023
(51) A61B 5/287	(72) PÉREZ-VILLACASTÍN DOMÍNGUEZ, Julián	(87) EP2018061566
A61B 5/06	PÉREZ CASTELLANO, Nicasio	08.11.2018
A61B 5/00	GARCÍA QUINTANILLA, Jorge	(22) 04.05.2018
A61B 18/00	FILGUEIRAS RAMA, David	(54) POSITRON EMISSION TOMOGRAPHY (PET) TIMING CALIBRATION USING COINCIDENCES INVOLVING HIGH-ENERGY CASCADE GAMMA FROM PROMPT-GAMMA POSITRON EMITTERS
A61B 18/14		(73) Koninklijke Philips N.V.
(11) EP3902461	(31) 18382729	(72) BULGRIN, Thomas Christopher
(21) EP20716620.8	(32) 11.10.2018	ROMANOV, Leonid
(47) 12.07.2023	(33) European Patent Office (EPO)	ANDREYEV, Andriy
(87) US2020021026	(51) A61B 5/389	(31) 201762501384 P
10.09.2020	A61B 5/00	(32) 04.05.2017
(22) 04.03.2020	(11) EP3062689	(33) United States of America
(54) METHODS AND SYSTEM FOR CORRECTING ELECTRODE POSITIONS OF A CLINICAL USAGE CATHETER	(21) EP14857711.7	(51) A61B 6/03
(73) St. Jude Medical, Cardiology Division, Inc.	(47) 12.07.2023	G06T 7/00
(72) OREN, Eitan	(87) US2014019827	G06T 7/62
(31) 201962813996 P	07.05.2015	(11) EP3960087
(32) 05.03.2019	(22) 03.03.2014	(21) EP21198980.1
(33) United States of America	(54) SYSTEM FOR DETERMINING IF SURGICALLY-IMPLANTED HARDWARE SHOULD BE REMOVED	(47) 12.07.2023
(51) A61B 5/287	(73) Reaston, Phil	(22) 31.10.2017
G06T 3/00	Tomecek, Frank J. Junior	(54) METHOD OF DETECTING VASCULAR INFLAMMATION
G06T 7/33	Reaston, Maryrose Cusimano	(73) Oxford University Innovation Limited
(11) EP3962351	(72) Reaston, Maryrose Cusimano	(72) OIKONOMOU, Evangelos
(21) EP19722581.6	Tomecek, Frank J. Junior	CHANNON, Keith
(47) 12.07.2023	Reaston, Phil	NEUBAUER, Stefan
(87) EP2019061409	(31) 201314069728	ANTONIADES, Charalambos
12.11.2020	(32) 01.11.2013	(31) 20160100555
(22) 03.05.2019	(33) United States of America	201620494
(54) CO-REGISTRATION OF CARDIAC IMAGES	(51) A61B 6/00	(32) 31.10.2016
(73) Koninklijke Philips N.V.	A61B 5/00	02.12.2016
(72) RODRIGUEZ, Haim	G06T 7/20	(33) Greece
SCHWARTZ, Yitzhack	(11) EP3975850	United Kingdom
DICHTERMAN, Eli	(21) EP21723994.6	(51) A61B 7/00
(51) A61B 5/291	(47) 12.07.2023	(11) EP3847970
(11) EP3393337	(87) EP2021062564	(21) EP21159952.7
(21) EP16822666.0	25.11.2021	(47) 12.07.2023
(47) 12.07.2023	(22) 12.05.2021	(22) 30.11.2012
(87) EP2016081891	(54) X-RAY IMAGING SYSTEM	(54) MULTIFACTORIAL TELEHEALTH CARE PREGNANCY AND BIRTH MONITORING
29.06.2017	(73) Koninklijke Philips N.V.	(73) Viewcare Technologies 1 ApS
(22) 20.12.2016	(72) STEADMAN BOOKER, Roger	(72) Dinesen, Birthe, Irene
(54) SYSTEM AND METHOD FOR DETERMINING SLEEP STAGES BASED ON CARDIAC ACTIVITY INFORMATION AND BRAIN ACTIVITY INFORMATION IN EEG SIGNALS	RIBBING, Carolina	Struijk, Johannes, Jan
(73) Koninklijke Philips N.V.	MENSER, Bernd	Riknagel, Diana, Kjær ,Thing
(72) GARCIA MOLINA, Gary, Nelson	(31) 20175453	(31) 11191475
(31) 201562270890 P	(32) 19.05.2020	(32) 01.12.2011
(32) 22.12.2015	(33) European Patent Office (EPO)	(33) European Patent Office (EPO)
(33) United States of America	(51) A61B 6/00	(51) A61B 8/00
(51) A61B 5/316	H04W 4/80	(11) EP3023058
A61B 5/361	(11) EP4005485	(21) EP14826109.2
(11) EP3863510	(21) EP21209277.9	(47) 12.07.2023
(21) EP19783542.4	(47) 12.07.2023	(87) JP2014063395
(47) 12.07.2023	(22) 19.11.2021	22.01.2015
(87) EP2019077610	(54) RADIOGRAPHIC IMAGING SYSTEM, METHOD OF CONTROLLING RADIOGRAPHIC IMAGING SYSTEM, AND PROGRAM	(22) 20.05.2014
16.04.2020	(73) Canon Kabushiki Kaisha	(54) ULTRASOUND OBSERVATION APPARATUS, METHOD FOR OPERATING ULTRASOUND OBSERVATION APPARATUS, AND PROGRAM FOR OPERATING ULTRASOUND OBSERVATION APPARATUS
(22) 11.10.2019	(72) SHIMIZU, Yasutomo	
(54) IDENTIFICATION OF CARDIAC FIBRILLATION DRIVERS USING SINGLE OPTICAL OR ELECTRICAL SIGNALS	(31) 2020196898	
	(32) 27.11.2020	
	(33) Japan	
	(51) A61B 6/03	
	A61B 6/00	
	G01T 1/29	

(73) Olympus Corporation	(32) 13.03.2013	22.03.2018
(72) EDA, Hiroataka	(33) United States of America	(22) 24.05.2017
(31) 2013149831	(51) A61B 8/04	(54) ULTRASONIC DIAGNOSTIC DEVICE
(32) 18.07.2013	A61B 8/08	AND METHOD FOR CONTROLLING
(33) Japan	A61B 8/12	ULTRASONIC DIAGNOSTIC DEVICE
(51) A61B 8/00	A61B 8/00	(73) FUJIFILM Corporation
A61B 8/12	(11) EP4090249	(72) MATSUMOTO, Tsuyoshi
A61B 8/06	(21) EP21732683.4	(31) 2016181715
A61B 8/08	(47) 12.07.2023	(32) 16.09.2016
(11) EP3768170	(87) US2021033138	(33) Japan
(21) EP19708563.2	25.11.2021	(51) A61B 8/14
(47) 12.07.2023	(22) 19.05.2021	A61B 8/08
(87) EP2019055938	(54) INJECTABLE HEMODYNAMIC	A61B 8/00
26.09.2019	MONITORING SYSTEMS	(11) EP3445252
(22) 11.03.2019	(73) Coravie Medical, Inc.	(21) EP17717435.6
(54) MEDICAL DEVICE COMPRISING	(72) SEWELL, Tanzania	(47) 12.07.2023
SENSOR ARRAY AND SYSTEM FOR	GARZA, Aimee	(87) EP2017059019
MEASUREMENTS	(31) 202063026878 P	26.10.2017
(73) Koninklijke Philips N.V.	(32) 19.05.2020	(22) 13.04.2017
(72) KUENEN, Maarten, Petrus, Joseph	(33) United States of America	(54) ULTRASONIC SYSTEM FOR BREAST
VAN DE MOLENGRAAF, Roland,	(51) A61B 8/06	TISSUE IMAGING
Alexander	A61B 8/00	(73) Koninklijke Philips N.V.
FRACKOWIAK, Bruno, Jean, François	A61B 8/08	(72) JAGO, James, Robertson
SHULEPO, Sergei, Y.	(11) EP3749207	TANG, Thomas, Shu, Yin
HENNEKEN, Vincent, Adrianus	(21) EP19705804.3	DMITRIEVA, Julia
WEEKAMP, Johannes, Wilhelmus	(47) 12.07.2023	NG, Gary Cheng-How
VAN DER HORST, Arjen	(87) GB2019050344	(31) 201662323995 P
(31) 18163698	15.08.2019	(32) 18.04.2016
(32) 23.03.2018	(22) 07.02.2019	(33) United States of America
(33) European Patent Office (EPO)	(54) ULTRASONIC BLOOD-FLOW	(51) A61B 10/00
(51) A61B 8/00	MONITORING	(11) EP3721810
A61B 8/12	(73) Cimon Medical AS	(21) EP19168289.7
A61N 5/067	(72) HERGUM, Torbjørn	(47) 12.07.2023
A61N 7/00	TORP, Hans	(22) 09.04.2019
G01N 29/06	(31) 201817102	(54) URINE COLLECTOR FOR MEN AND
A61B 8/08	201802007	URINE SAMPLING KIT COMPRISING
A61B 8/15	(32) 19.10.2018	THIS COLLECTOR
(11) EP3247280	07.02.2018	(73) Rabhi, Abdelhamid
(21) EP16737141.8	(33) United Kingdom	(72) Rabhi, Abdelhamid
(47) 12.07.2023	United Kingdom	(51) A61B 10/00
(87) IB2016050109	(51) A61B 8/08	A61B 10/02
21.07.2016	A61B 8/00	(11) EP3941359
(22) 11.01.2016	G01S 7/52	(21) EP21703637.5
(54) DIFFUSE ACOUSTIC CONFOCAL	G01S 15/89	(47) 12.07.2023
IMAGER	G16H 50/30	(87) EP2021052150
(73) Herring, Rodney	A61B 8/06	18.11.2021
(72) Herring, Rodney	(11) EP3694418	(22) 29.01.2021
(31) 201562103882 P	(21) EP18795936.6	(54) SWAB FOR BIOLOGICAL SAMPLING
(32) 15.01.2015	(47) 12.07.2023	(73) Vinceni Property II GmbH
(33) United States of America	(87) EP2018076042	(72) FÜTTERER, Ferdinand
(51) A61B 8/02	18.04.2019	(31) 102020116824
A61B 8/08	(22) 26.09.2018	102020113143
A61B 5/024	(54) ULTRASONIC SHEARWAVE	(32) 25.06.2020
A61B 5/0255	IMAGING WITH PATIENT-ADAPTIVE	14.05.2020
(11) EP2967489	SHEARWAVE GENERATION	(33) Germany
(21) EP14774780.2	(73) Koninklijke Philips N.V.	Germany
(47) 12.07.2023	(72) BAE, Unmin	(51) A61B 17/068
(87) US2014023144	SHAMDASANI, Vijay Thakur	A61B 17/064
02.10.2014	(31) 201762571456 P	(11) EP2870929
(22) 11.03.2014	(32) 12.10.2017	(21) EP14192141.1
(54) METHOD AND DEVICE FOR FETAL	(33) United States of America	(47) 12.07.2023
HEART RATE MONITORING WITH	(51) A61B 8/14	(22) 06.11.2014
MATERNAL CONTRIBUTION	A61B 8/08	(54) Apparatus for surgical fastening
DETECTION	A61B 8/00	(73) C.R. BARD, INC.
(73) General Electric Company	(11) EP3513738	(72) Leatzow, Derek
(72) KABAKOV, Serguri	(21) EP17850485.8	Ranucci, Kevin J.
FALK, Steven M	(47) 12.07.2023	Grider, Keith A.
(31) 201313800612	(87) JP2017019410	Gupta, Suarav V.

(31) 201314075524	(47) 12.07.2023	A61B 17/00
(32) 08.11.2013	(87) NL2019050678	(11) EP3610804
(33) United States of America	23.04.2020	(21) EP19191228.6
(51) A61B 17/068	(22) 14.10.2019	(47) 12.07.2023
A61B 17/072	(54) A SURGICAL DEVICE FOR ENABLING	(22) 12.08.2019
A61B 17/00	ANASTOMOSIS	(54) LIGATION CLIP WITH IMPROVED
(11) EP3431016	(73) van Oosterom, Frederik Jan Theodoor	HINGE
(21) EP18192317.8	Houdijk, Alexander Petrus Jacobus	(73) Covidien LP
(47) 12.07.2023	(72) Houdijk, Alexander Petrus Jacobus	(72) BANERJEE, Saumya
(22) 05.03.2008	van Oosterom, Frederik Jan Theodoor	PILLETERE, Roy J.
(54) SURGICAL STAPLING APPARATUS	(31) 2021816	MORCK, Gregory R.
(73) Covidien LP	(32) 15.10.2018	BROWN, Eric
(72) TARINELLI, Danyel	(33) Netherlands	DININO, Matthew A.
ARANYI, Ernest	(51) A61B 17/115	THOMAS, Justin
SIMPSON, Richard	A61B 17/072	BARIL, Jacob C.
(31) 905566 P	A61B 90/00	(31) 201916432984
(32) 06.03.2007	(11) EP3235451	201862717958 P
(33) United States of America	(21) EP17166939.3	(32) 06.06.2019
(51) A61B 17/072	(47) 12.07.2023	13.08.2018
(11) EP3530208	(22) 18.04.2017	(33) United States of America
(21) EP19158306.1	(54) CARTRIDGE LOCKOUT	United States of America
(47) 12.07.2023	ARRANGEMENTS FOR ROTARY	(51) A61B 17/16
(22) 20.02.2019	POWERED SURGICAL CUTTING AND	A61B 17/17
(54) STAPLING ASSEMBLY WITH THREE	STAPLING INSTRUMENTS	(11) EP3624707
DIMENSIONAL ADJUNCT	(73) Ethicon LLC	(21) EP18727519.3
(73) Ethicon LLC	(72) SHELTON, IV, Frederick E.	(47) 12.07.2023
(72) HARRIS, Jason L.	HARRIS, Jason L.	(87) US2018031467
VENDELY, Michael J.	BAXTER, III, Chester O.	22.11.2018
BAXTER, III, Chester O.	(31) 201615131295	(22) 08.05.2018
SHELTON, IV, Frederick E.	(32) 18.04.2016	(54) JOINT REAMING DEVICES
(31) 201815901723	(33) United States of America	(73) Biomet Manufacturing, LLC
(32) 21.02.2018	(51) A61B 17/115	(72) MARKHAM, Joseph
(33) United States of America	A61B 90/00	ROBY, Keith A.
(51) A61B 17/072	A61B 17/00	DELUCA, Robert G.
A61B 34/10	A61B 17/072	CHERNOSKY, John
A61B 90/00	(11) EP3649966	(31) 201762508768 P
A61B 5/107	(21) EP19207357.5	(32) 19.05.2017
A61B 34/20	(47) 12.07.2023	(33) United States of America
A61B 34/37	(22) 06.11.2019	(51) A61B 17/22
G16H 20/30	(54) RELOAD ASSEMBLY FOR A CIRCULAR	A61B 17/32
G16H 30/20	STAPLING DEVICE	(11) EP3493751
G16H 30/40	(73) Covidien LP	(21) EP17834961.9
G16H 40/63	(72) SGROI, Anthony	(47) 12.07.2023
A61B 17/00	(31) 201916598324	(87) US2017041953
A61B 18/14	201862756802 P	01.02.2018
A61B 34/00	(32) 10.10.2019	(22) 13.07.2017
(11) EP3845139	07.11.2018	(54) ULTRASONIC SURGICAL PROBE AND
(21) EP20217600.4	(33) United States of America	ASSEMBLY
(47) 12.07.2023	United States of America	(73) Misonix, Incorporated
(22) 29.12.2020	(51) A61B 17/12	(72) ISOLA, Scott
(54) SURGICAL SYSTEM FOR	A61F 2/07	VOIC, Dan
OVERLAYING SURGICAL	A61F 2/06	MIKUS, Paul
INSTRUMENT DATA ONTO A VIRTUAL	(11) EP4031023	(31) 201615221271
THREE DIMENSIONAL CONSTRUCT	(21) EP20765037.5	(32) 27.07.2016
OF AN ORGAN	(47) 12.07.2023	(33) United States of America
(73) Ethicon LLC	(87) EP2020074991	(51) A61B 17/221
(72) HARRIS, Jason L.	25.03.2021	A61F 2/01
MUMAW, Daniel J.	(22) 08.09.2020	A61B 17/32
SHELTON IV, Frederick E.	(54) ENDOPROSTHESIS AND A	(11) EP3630005
(31) 201916729735	METHOD OF PRODUCING AN	(21) EP18735418.8
(32) 30.12.2019	ENDOPROSTHESIS	(47) 12.07.2023
(33) United States of America	(73) Kardiozis SAS	(87) IL2018050595
(51) A61B 17/11	(72) NUGENT, Barry	06.12.2018
A61B 17/064	VANDAELE-FENOUIL, Nathalie	(22) 31.05.2018
A61B 17/072	(31) 19315116	(54) DEVICES FOR THE REMOVAL OF
A61B 17/115	(32) 19.09.2019	CLOTS
(11) EP3866703	(33) European Patent Office (EPO)	(73) Amnis Therapeutics Ltd.
(21) EP19828879.7	(51) A61B 17/122	(72) BUKAI, Hadar

PLIS, Ronen Ariel	(73) Koninklijke Philips N.V.	(51) A61B 17/62
SIRABELLA, Evyatar	(72) ROWE, Douglas	A61B 17/56
KARNIBAD, Maya	(31) 201962849349 P	A61B 17/58
SHAMAY, Noam	(32) 17.05.2019	A61B 17/60
(31) 25260817	(33) United States of America	A61B 17/64
(32) 01.06.2017	(51) A61B 17/3207	A61B 17/66
(33) Israel	A61B 17/22	(11) EP3697328
(51) A61B 17/32	A61B 17/3205	(21) EP18867424.6
A61B 17/14	A61B 90/00	(47) 12.07.2023
(11) EP3829465	A61B 17/00	(87) US2018056321
(21) EP19761850.7	(11) EP3906867	25.04.2019
(47) 12.07.2023	(21) EP21181064.3	(22) 17.10.2018
(87) EP2019073088	(47) 12.07.2023	(54) DEFORMABLE DYNAMIZATION
05.03.2020	(22) 03.05.2018	DEVICE
(22) 29.08.2019	(54) TISSUE-REMOVING CATHETER	(73) Texas Scottish Rite Hospital For Children
(54) SURGICAL CUTTING TOOL	(73) Medtronic Vascular Inc.	(72) CHERKASHIN, Alexander M.
(73) St. Olavs Hospital, Trondheim University Hospital	(72) FLEMING, Matthew	ROSS, John D.
(72) HARAM, Per Magnus	CARROLL, Grainne	SAMCHUKOV, Mikhail L.
(31) 201814219	MEADE, Colin	(31) 201715787327
(32) 31.08.2018	MCMULLEN, Conor	(32) 18.10.2017
(33) United Kingdom	KELLY, John	(33) United States of America
(51) A61B 17/32	JAMOUS, Aram	(51) A61B 17/68
A61B 17/16	(31) 201762500879 P	A61B 17/80
A61B 17/00	201762500867 P	A61B 17/34
(11) EP3658044	(32) 03.05.2017	(11) EP3389521
(21) EP18706068.6	03.05.2017	(21) EP16876733.3
(47) 12.07.2023	(33) United States of America	(47) 12.07.2023
(87) US2018016840	United States of America	(87) US2016067060
31.01.2019	(51) A61B 17/34	22.06.2017
(22) 05.02.2018	A61M 25/06	(22) 15.12.2016
(54) IRRIGATION SLEEVES FOR USE WITH	A61M 29/00	(54) FEMORAL BASE PLATE THA
SURGICAL SYSTEMS	A61B 90/00	(73) TechMah Medical LLC
(73) Stryker European Operations Holdings LLC	(11) EP3769702	(72) MAHFOUZ, Mohamed, R.
(72) WALEN, James, G.	(21) EP18910592.7	(31) 201562267370 P
CUSHEN, Patrick	(47) 12.07.2023	(32) 15.12.2015
TYNAN, Fintan	(87) JP2018035089	(33) United States of America
(31) 201762536733 P	26.09.2019	(51) A61B 17/70
(32) 25.07.2017	(22) 21.09.2018	A61B 17/00
(33) United States of America	(54) DILATOR	(11) EP3487432
(51) A61B 17/32	(73) ASAH I INTECC CO., LTD.	(21) EP17831845.7
B60B 1/06	(72) TSUZUKU, Marina	(47) 12.07.2023
(11) EP3493753	FUSEYA, Yukihiro	(87) US2017042976
(21) EP17837470.8	SAWAI, Akira	25.01.2018
(47) 12.07.2023	MAKI, Hideaki	(22) 20.07.2017
(87) US2017044676	TAKAHASHI, Daiki	(54) SPINAL CORRECTION SYSTEM
08.02.2018	(31) PCT/JP2018/011673	(73) Warsaw Orthopedic, Inc.
(22) 31.07.2017	(32) 23.03.2018	(72) WALL, Daniel Paxton
(54) ULTRASONIC SURGICAL DEVICE	(33) World Intellectual Property Office (WIPO)	(31) 201615216454
WITH REDUCTION IN ELECTRICAL	(51) A61B 17/34	(32) 21.07.2016
INTERFERENCE	A61M 25/06	(33) United States of America
(73) Misonix, Incorporated	A61M 29/00	(51) A61B 17/70
(72) PANTANO, Salvatore	A61B 90/00	A61B 17/86
(31) 201662370016 P	(11) EP3769703	(11) EP3880097
(32) 02.08.2016	(21) EP18910960.6	(21) EP19884980.4
(33) United States of America	(47) 12.07.2023	(47) 12.07.2023
(51) A61B 17/3207	(87) JP2018035088	(87) AU2019051260
A61B 17/00	26.09.2019	22.05.2020
(11) EP3968876	(22) 21.09.2018	(22) 15.11.2019
(21) EP20726799.8	(54) DILATOR	(54) PEDICLE SCREWS
(47) 12.07.2023	(73) ASAH I INTECC CO., LTD.	(73) Southern Cross Patents Pty Ltd
(87) EP2020063743	(72) MAKI, Hideaki	(72) MCPHEE, Robert
26.11.2020	TAKAHASHI, Daiki	(31) 2018904378
(22) 16.05.2020	FUSEYA, Yukihiro	(32) 16.11.2018
(54) ATHERECTOMY DEVICES INCLUDING	TSUZUKU, Marina	(33) Australia
POSITIVE AND NEGATIVE RAKE	SAWAI, Akira	(51) A61B 17/70
ANGLE CUTTING BLADES	(31) PCT/JP2018/011672	A61B 17/86
	(32) 23.03.2018	A61B 17/80
	(33) World Intellectual Property Office (WIPO)	(11) EP3705070

(21) EP18903437.4	(47) 12.07.2023	(54) ENERGY DELIVERY DEVICE
(47) 12.07.2023	(87) IB2014059846	(73) Neuwave Medical, Inc.
(87) CN2018095399	18.09.2014	(72) THOM, Mark
08.08.2019	(22) 14.03.2014	SCHANING, Matthew
(22) 12.07.2018	(54) ELECTROSURGICAL MAPPING TOOLS	(31) 201916266821
(54) NONMETAL IMPLANT SCREW	(73) Medtronic Holding Company Sàrl	201862631150 P
LOCKING STRUCTURE	(72) GODARA, Neil	(32) 04.02.2019
(73) Shanghai Reach Medical Instrument	WOO, Jason	15.02.2018
Co.,Ltd	CHEONG, Terence	(33) United States of America
(72) HUANG, Xiaomin	(31) 201361786986 P	United States of America
(31) 201810111346	(32) 15.03.2013	<hr/>
(32) 05.02.2018	(33) United States of America	(51) A61B 18/18
(33) China	(51) A61B 18/14	A61B 18/00
<hr/>	(11) EP3937813	A61B 8/08
(51) A61B 17/72	(21) EP20750794.8	A61N 7/02
A61B 17/88	(47) 12.07.2023	A61N 7/00
(11) EP3562417	(87) US2020036410	G16H 50/30
(21) EP17838106.7	17.12.2020	(11) EP3801279
(47) 12.07.2023	(22) 05.06.2020	(21) EP19726685.1
(87) US2017068091	(54) ELECTRODE BASKET HAVING HIGH-	(47) 12.07.2023
05.07.2018	DENSITY CIRCUMFERENTIAL BAND	(87) EP2019063565
(22) 22.12.2017	OF ELECTRODES	05.12.2019
(54) JOINT COMPRESSION	(73) St. Jude Medical, Cardiology Division,	(22) 27.05.2019
INSTRUMENTATION	Inc.	(54) APPARATUS AND METHOD FOR
(73) Biomet Manufacturing, LLC	(72) OLSON, Eric	ESTIMATING A LEVEL OF THERMAL
(72) THORDARSON, David	(31) 201962861135 P	ABLATION
GROSSMAN, Jordan	(32) 13.06.2019	(73) Koninklijke Philips N.V.
ASUNCION MARQUEZ, Jordi	(33) United States of America	(72) HUANG, Lingyun
DZIADOSZ, Dan	(51) A61B 18/14	CHEN, Jiangang
VAN DYKE, William Scott	(11) EP3024404	LI, Junbo
LIPORACE, Frank A.	(21) EP14725918.8	LI, Fan
(31) 201662439545 P	(47) 12.07.2023	LI, Xiaomin
(32) 28.12.2016	(87) GB2014051345	CHEN, Yanan
(33) United States of America	06.11.2014	(31) PCT/CN2018/088842
<hr/>	(22) 30.04.2014	(32) 29.05.2018
(51) A61B 18/02	(54) ELECTROSURGICAL DEVICE	(33) World Intellectual Property Office (WIPO)
A61B 18/00	(73) Brooke, Gerard	<hr/>
(11) EP3437579	(72) Brooke, Gerard	(51) A61B 18/26
(21) EP17184993.8	(31) 201307866	A61B 18/14
(47) 12.07.2023	(32) 01.05.2013	(11) EP4051154
(22) 04.08.2017	(33) United Kingdom	(21) EP20799915.2
(54) CRYOSURGICAL INSTRUMENT	(51) A61B 18/14	(47) 12.07.2023
(73) Erbe Elektromedizin GmbH	A61B 17/32	(87) US2020054792
(72) Andel, Hanna	A61B 17/28	06.05.2021
Adler, Marcus	A61B 17/30	(22) 08.10.2020
Kronenthaler, Jörg	(11) EP3446653	(54) ASYMMETRICAL BALLOON FOR
Fischer, Klaus	(21) EP18189867.7	LITHOPLASTY DEVICE
Brodbeck, Achim	(47) 12.07.2023	(73) Bolt Medical, Inc.
<hr/>	(22) 21.08.2018	(72) SCHULTHEIS, Eric
(51) A61B 18/10	(54) ENERGY-BASED SURGICAL	(31) 202017063311
A61B 34/30	INSTRUMENTS AND SYSTEMS	201962928628 P
(11) EP3758637	CONFIGURED TO MINIMIZE THERMAL	(32) 05.10.2020
(21) EP19710116.5	SPREAD	31.10.2019
(47) 12.07.2023	(73) Covidien LP	(33) United States of America
(87) GB2019050587	(72) LI, Yuanxun	United States of America
06.09.2019	LIU, Pu	<hr/>
(22) 01.03.2019	DING, Weijiang	(51) A61B 34/00
(54) ELECTROSURGICAL CONNECTION	CAO, Ming	A61B 34/30
UNIT	(31) PCT/CN2017/098435	B23H 7/02
(73) CMR Surgical Limited	(32) 22.08.2017	B23H 11/00
(72) SCHOFIELD, Simon	(33) World Intellectual Property Office (WIPO)	(11) EP3586780
ROBERTS, Paul Christopher	(51) A61B 18/18	(21) EP19190094.3
DEANE, Gordon Thomas	(11) EP3752084	(47) 12.07.2023
(31) 201803379	(21) EP19709783.5	(22) 14.10.2016
(32) 01.03.2018	(47) 12.07.2023	(54) MEDICAL INSTRUMENT AND METHOD
(33) United Kingdom	(87) IB2019050960	OF MANUFACTURING
<hr/>	22.08.2019	(73) Medical Microinstruments, Inc.
(51) A61B 18/12	(22) 06.02.2019	(72) SIMI, Massiliano
A61B 18/24		PRISCO, Giuseppe Maria
A61B 18/28		(31) IT201562548
(11) EP2967397		(32) 16.10.2015
(21) EP14764517.0		

(33) Italy	17.11.2016	VENDELY, Michael J.
(51) A61B 34/30	(22) 10.05.2016	O'BRIEN, Kevin
A61B 17/00	(54) COUPLING INSTRUMENT DRIVE	VAN STOLK, Nicholas B.
A61B 90/00	UNIT AND ROBOTIC SURGICAL	BARTON, Trevor J.
A61B 34/37	INSTRUMENT	HUNT, John V.
A61B 34/00	(73) Covidien LP	(31) 201816235541
A61B 34/10	(72) KOPP, Brock	(32) 28.12.2018
(11) EP3351203	(31) 201562159417 P	(33) United States of America
(21) EP18158957.3	(32) 11.05.2015	(51) A61B 90/20
(47) 12.07.2023	(33) United States of America	G02B 21/00
(22) 04.06.2009	(51) A61B 34/30	G02B 21/22
(54) MEDICAL ROBOTIC SYSTEM	A61B 34/20	A61B 1/00
PROVIDING AN AUXILIARY VIEW	A61M 25/01	G02B 21/06
OF ARTICULATABLE INSTRUMENTS	A61M 25/09	G02B 21/16
EXTENDING OUT OF A DISTAL END	A61B 17/00	(11) EP3851063
OF AN ENTRY GUIDE	A61B 34/35	(21) EP21150921.1
(73) Intuitive Surgical Operations Inc.	(11) EP3782574	(47) 12.07.2023
(72) LARKIN, David Q	(21) EP19789507.1	(22) 11.01.2021
MUSTUFA, Tabish	(47) 12.07.2023	(54) OPTICAL OBSERVATION
DIOLAITI, Nicola	(87) KR2019004770	INSTRUMENT AND METHOD FOR
(31) 163087	24.10.2019	GENERATING A STEREO IMAGE OF
(32) 27.06.2008	(22) 19.04.2019	AN OBJECT FIELD
(33) United States of America	(54) ROLLER MODULE FOR MEDICAL	(73) KARL STORZ SE & Co. KG
(51) A61B 34/30	ROBOT, DRIVING DEVICE FOR	(72) Heni, Andreas
A61B 17/29	MEDICAL ROBOT, AND MEDICAL	Forster, Jonas
A61B 34/20	ROBOT	Vogel, Walter
B25J 9/00	(73) LN Robotics Inc.	Barth, Sebastian
(11) EP3845190	(72) CHOI, Jae Soon	Köhler, Benedikt
(21) EP21156999.1	KIM, Young Hak	(31) 102020100674
(47) 12.07.2023	MOON, Young Jin	(32) 14.01.2020
(22) 15.03.2013	(31) 20180045379	(33) Germany
(54) SINGLE SITE ROBOTIC DEVICE AND	(32) 19.04.2018	(51) A61C 1/00
RELATED SYSTEMS	(33) Korea (Republic)	A61C 5/44
(73) Board of Regents of the University of	(51) A61B 46/00	(11) EP3851065
Nebraska	A61B 17/00	(21) EP21151636.4
(72) Mondry, Jack	A61F 13/02	(47) 12.07.2023
Farritor, Shane	A61L 15/58	(22) 14.01.2021
Markvicka, Eric	A61B 46/20	(54) MEDICAL SYSTEM, COMPUTER
Bartels, Joseph	(11) EP3678620	PROGRAM AND WARNING
Frederick, Thomas	(21) EP18779122.3	NOTIFICATION METHOD
(31) 201261640879 P	(47) 12.07.2023	(73) J. MORITA MFG. CORP.
(32) 01.05.2012	(87) US2018049388	(72) KATO, Kyohei
(33) United States of America	14.03.2019	ADACHI, Koichiro
(51) A61B 34/30	(22) 04.09.2018	YAMASHITA, Seiichiro
A61B 34/00	(54) SYSTEMS AND METHODS	(31) 2020005839
A61B 17/29	FOR MITIGATING PREMATURE	2020005838
A61B 17/00	LIGHT DEACTIVATION OF LIGHT	(32) 17.01.2020
A61B 34/37	DEACTIVATED ADHESIVE DRAPES	17.01.2020
(11) EP3924151	(73) 3M Innovative Properties Company	(33) Japan
(21) EP20756245.5	(72) ROBINSON, Timothy, Mark	Japan
(47) 12.07.2023	LONG, Justin, Alexander	(51) A61C 7/00
(87) US2020017865	LOCKE, Christopher, Brian	(11) EP3600130
20.08.2020	(31) 201762554280 P	(21) EP18716758.0
(22) 12.02.2020	(32) 05.09.2017	(47) 12.07.2023
(54) SURGICAL ROBOTIC SYSTEMS	(33) United States of America	(87) US2018023423
(73) Covidien LP	(51) A61B 50/33	27.09.2018
(72) MISHRA, Ranjan K.	A61B 50/30	(22) 20.03.2018
KAPADIA, Jaimeen	A61B 17/072	(54) GENERATING A VIRTUAL DEPICTION
(31) 201962806302 P	A61B 50/00	OF AN ORTHODONTIC TREATMENT
(32) 15.02.2019	(11) EP3673858	OF A PATIENT
(33) United States of America	(21) EP19218546.0	(73) Align Technology, Inc.
(51) A61B 34/30	(47) 12.07.2023	(72) STERENTAL, Rene M.
A61B 34/00	(22) 20.12.2019	POKOTILOV, Pavel
A61B 34/35	(54) PACKAGING FOR SURGICAL STAPLER	TEN, Dmitriy Konstantinovich
(11) EP3294184	BUTTRESS	BLANCO, Samuel
(21) EP16793358.9	(73) Ethicon LLC	CHEKH, Dmitry Yurievich
(47) 12.07.2023	(72) GRIFFITHS, Denise	VYSOKANOV, Boris Aleksandrovich
(87) US2016031594	SHELLIN, Emily A.	KARNYGIN, Evgenii Vladimirovich

RAMOS, Jason	(33) European Patent Office (EPO)	(11) EP4027939
LOPES, David Patrick	(51) A61C 13/00	(21) EP20767820.2
KUANBEKOV, Artem	(11) EP3941387	(47) 12.07.2023
MIRYAHA, Vladislav Andreevich	(21) EP20711176.6	(87) EP2020075225
BRAILOV, Yury A.	(47) 12.07.2023	18.03.2021
(31) 201762474026 P	(87) EP2020057289	(22) 09.09.2020
(32) 20.03.2017	24.09.2020	(54) SUPPORT ELEMENT FOR A
(33) United States of America	(22) 17.03.2020	PLURALITY OF ANIMAL SEMEN
(51) A61C 7/00	(54) METHOD FOR PRODUCING A TOOTH	PACKAGING STRAWS AND ASSEMBLY
A61C 7/08	REPLACEMENT PART	COMPRISING SAID SUPPORT
(11) EP2237738	(73) Sirona Dental Systems GmbH	ELEMENT
(21) EP08871783.0	DENTSPLY SIRONA Inc.	(73) IMV Technologies
(47) 12.07.2023	(72) NOWORRA, Oliver	(72) SCHMITT, Eric
(87) US2008086647	(31) 19164483	DOUESNEL, Jean-Louis
06.08.2009	(32) 21.03.2019	GORGES, Jean-Charles
(22) 12.12.2008	(33) European Patent Office (EPO)	(31) 1909908
(54) ORTHODONTIC REPOSITIONING	(51) A61C 13/15	(32) 09.09.2019
APPLIANCES HAVING IMPROVED	F27B 17/02	(33) France
GEOMETRY, METHODS AND	(11) EP3815646	(51) A61D 19/02
SYSTEMS	(21) EP20204163.8	A61B 1/303
(73) Align Technology, Inc.	(47) 12.07.2023	A61B 1/018
(72) MOSS, John	(22) 27.10.2020	A61B 1/05
MATOV, Vadim	(54) LIGHT CURING UNIT FOR DENTAL	A61B 1/06
KIMURA, Ryan	USE WITH SWITCH HIDDEN BY DOOR	(11) EP3727191
CAO, Heng	(73) Shofu Inc.	(21) EP18833971.7
MORTON, John	(72) KUMEDA, Harunobu	(47) 12.07.2023
(31) 24536 P	TSUBOI, Taro	(87) FR2018053369
(32) 29.01.2008	(31) 2019196542	27.06.2019
(33) United States of America	(32) 29.10.2019	(22) 18.12.2018
(51) A61C 7/28	(33) Japan	(54) APPLIANCE FOR ASSISTING IN
(11) EP3600133	(51) A61C 15/04	VAGINAL PENETRATION AND
(21) EP18770734.4	A46B 5/00	PROVIDED TO RECEIVE A WORKING
(47) 12.07.2023	A46B 5/04	TOOL
(87) US2018023403	A61C 15/02	(73) IMV Technologies
27.09.2018	A46B 15/00	(72) SCHMITT, Eric
(22) 20.03.2018	(11) EP3585302	GUYOMAR, H�el�ene
(54) SELF-LIGATING BRACKET HAVING A	(21) EP18712644.6	GORGES, Jean-Charles
LIGATING MEMBER	(47) 12.07.2023	(31) 1762339
(73) World Class Technology Corporation	(87) IB2018051105	(32) 18.12.2017
(72) RUIZ-VELA, Alberto	30.08.2018	(33) France
(31) 201715820025	(22) 22.02.2018	(51) A61F 2/04
201762475073 P	(54) TOOL FOR CLEANING A	A61F 2/82
(32) 21.11.2017	CORRESPONDING PART OF THE	A61M 25/10
22.03.2017	ORAL CAVITY OF A PERSON, IN	A61B 17/32
(33) United States of America	PARTICULAR FOR CLEANING TEETH	A61B 17/3207
United States of America	(73) Battaglia, Alessio	A61B 17/3209
(51) A61C 8/00	(72) Battaglia, Alessio	(11) EP3967266
(11) EP3666224	(31) 201700021266 U	(21) EP21187486.2
(21) EP18211513.9	(32) 24.02.2017	(47) 12.07.2023
(47) 12.07.2023	(33) Italy	(22) 15.11.2013
(22) 11.12.2018	(51) A61C 17/02	(54) TEMPORARY VASCULAR SCAFFOLD
(54) DENTAL PROSTHESIS WITH	(11) EP3927280	AND SCORING DEVICE
CONNECTION SLEEVE AND KIT	(21) EP20712171.6	(73) Nfinium Vascular Technologies, LLC
(73) 3CI GmbH (iG)	(47) 12.07.2023	(72) FULTON, Richard, Eustis III
(72) RAISER, Christoph	(87) US2020019201	(31) 201261796596 P
(51) A61C 8/00	27.08.2020	(32) 15.11.2012
(11) EP3937833	(22) 21.02.2020	(33) United States of America
(21) EP20711837.3	(54) CORDLESS WATER FLOSSER	(51) A61F 2/06
(47) 12.07.2023	(73) Water Pik, Inc.	A61B 17/11
(87) EP2020056320	(72) BONDURANT, Thomas A.	A61F 2/00
17.09.2020	(31) 201962809412 P	A61F 2/04
(22) 10.03.2020	(32) 22.02.2019	(11) EP3659551
(54) DENTAL IMPLANT ASSEMBLY	(33) United States of America	(21) EP19219403.3
(73) Novodent SA	(51) A61D 19/00	(47) 12.07.2023
(72) NIZAM, Nejat	A61D 19/02	(22) 10.10.2008
(31) 19161962	A61D 99/00	(54) IMPLANTABLE TISSUE CONNECTOR
(32) 11.03.2019	A01N 1/02	(73) Implantica Patent Ltd.
		(72) Forsell, Peter

(31) 96076707 P 96076707 P 96076507 P 96076407 P 96076607 P 96071607 P 96071507 P	(73) Edwards Lifesciences Corporation (72) LEVI, Tamir S. (31) 201715808599 201662423599 P (32) 09.11.2017 17.11.2016 (33) United States of America United States of America	ASANO, Yuki INABA, Masayuki (31) 2016219496 (32) 10.11.2016 (33) Japan <hr/> (51) A61F 2/80 A61F 2/78
(32) 15.10.2007 12.10.2007 12.10.2007 12.10.2007 12.10.2007 11.10.2007 11.10.2007	(51) A61F 2/24 A61F 2/00 (11) EP3383323 (21) EP16871575.3 (47) 12.07.2023 (87) US2016064620 08.06.2017 (22) 02.12.2016 (54) STORAGE ASSEMBLY FOR PROSTHETIC VALVE (73) Edwards Lifesciences Corporation (72) COOPER, Alexander H. BIALAS, Michael R. KWAN, Art Z. ANDERSON, Amanda K. KOWALSKI, Zachary R. TYLER, Gregory Scott, II PATEL, Darshin S. TAYLOR, David M. METCHIK, Asher L. POPP, Michael J.	(11) EP3606478 (21) EP18717812.4 (47) 12.07.2023 (87) US2018024724 11.10.2018 (22) 28.03.2018 (54) ADJUSTABLE SEAL SYSTEM, SEAL COMPONENT AND METHOD FOR USING THE SAME (73) Össur Iceland EHF (72) WESTLUND, Johan Olof STØRUP, Martin Lund EGILSSON, Egill Sveinbjorn BIRGISDÓTTIR, Linda Rós (31) 201715480452 (32) 06.04.2017 (33) United States of America <hr/> (51) A61F 5/01 (11) EP3716920 (21) EP18812144.6 (47) 12.07.2023 (87) EP2018083134 06.06.2019 (22) 30.11.2018 (54) ORTHOSIS, SYSTEM AND PROCEDURE FOR ADAPTING AN ORTHOSIS
(33) United States of America United States of America United States of America United States of America United States of America United States of America United States of America	(31) 201615364670 201562263540 P (32) 30.11.2016 04.12.2015 (33) United States of America United States of America <hr/> (51) A61F 2/50 (11) EP3865097 (21) EP21159245.6 (47) 12.07.2023 (22) 30.01.2019 (54) METHOD OF CONFIGURING AN INTERCHANGEABLE PUMP-LOCK FOR PROSTHETIC SOCKET (73) Alps South Europe s.r.o Laghi, Aldo (72) LAGHI, Aldo (31) 201916261142 201862623753 P (32) 29.01.2019 30.01.2018 (33) United States of America United States of America <hr/> (51) A61F 2/64 A61F 2/70 A61F 2/76 A61F 2/50 A61F 2/68 A61H 3/00 (11) EP3539514 (21) EP17869954.2 (47) 12.07.2023 (87) JP2017031190 17.05.2018 (22) 30.08.2017 (54) KNEE JOINT (73) The University Of Tokyo (72) OKADA, Kei SUN, Xiaojun	(65) 06.06.2019 (22) 30.11.2018 (54) ORTHOSIS, SYSTEM AND PROCEDURE FOR ADAPTING AN ORTHOSIS (73) Ottobock SE & Co. KGaA (72) SIEWERT, Gordon (31) 102017128618 (32) 01.12.2017 (33) Germany <hr/> (51) A61F 5/01 (11) EP3939552 (21) EP21186491.3 (47) 12.07.2023 (22) 19.07.2021 (54) UNILATERAL ORTHOTIC FOR THE TREATMENT OF CLUB FOOT AND OTHER FOOT DEFORMITIES (73) Johannsen, Petra (31) 102020119025 (32) 17.07.2020 (33) Germany <hr/> (51) A61F 5/01 A61F 5/058 A61F 5/10 (11) EP3952800 (21) EP20714652.3 (47) 12.07.2023 (87) EP2020059547 15.10.2020 (22) 03.04.2020 (54) THUMB ORTHOTIC AND SET COMPRISING SEVERAL THUMB ORTHOTICS (73) Talke, Martin Roller, Matthias CHW-Technik GmbH (72) ROLLER, Matthias TALKE, Martin
(51) A61F 2/16 (11) EP3782584 (21) EP20192741.5 (47) 12.07.2023 (22) 12.05.2014 (54) MODULAR INTRAOCULAR LENS DESIGNS (73) Alcon Inc. The Regents of the University of Colorado, a body corporate (72) MANDAVA, Naresh KAHOOK, Malik, Y. ATKINSON, Robert, E. SUSSMAN, Glenn MCLEAN, Paul (31) 201313969115 201361830491 P (32) 16.08.2013 03.06.2013 (33) United States of America United States of America <hr/> (51) A61F 2/16 A61F 9/00 (11) EP3865092 (21) EP21161655.2 (47) 12.07.2023 (22) 22.09.2015 (54) INTRAOCULAR PSEUDOPHAKIC CONTACT LENSES AND RELATED SYSTEMS (73) Onpoint Vision, Inc. (72) CADY, Kevin J. (31) 201514860629 201462053771 P (32) 21.09.2015 22.09.2014 (33) United States of America United States of America <hr/> (51) A61F 2/24 (11) EP3541327 (21) EP17872825.9 (47) 12.07.2023 (87) US2017061253 24.05.2018 (22) 13.11.2017 (54) PROSTHETIC HEART VALVE HAVING LEAFLET INFLOW BELOW FRAME		



WAGNER, Helmut	(87) KR2017009670	(54) SYSTEM FOR NEUROPROTECTIVE
(31) 19169043	08.03.2018	THERAPY FOR GLAUCOMA
(32) 12.04.2019	(22) 05.09.2017	(73) Ojai Retinal Technology, LLC
(33) European Patent Office (EPO)	(54) CONDOM FOR PATIENT WITH	(72) LUTTRULL, Jeffrey K.
(51) A61F 5/44	ERECTION DYSFUNCTION	MARGOLIS, Benjamin W. L.
A61F 5/443	(73) UFU Health Co., Ltd.	CHANG, David B.
A61F 5/445	(72) CHUNG, Kyung Jin	(31) 201615232320
(11) EP3727220	(31) 20160113844	201615188608
(21) EP18830372.1	(32) 05.09.2016	201615148842
(47) 12.07.2023	(33) Korea (Republic)	(32) 09.08.2016
(87) DK2018050381	(51) A61F 6/08	21.06.2016
27.06.2019	A61F 2/00	06.05.2016
(22) 20.12.2018	(11) EP3131510	(33) United States of America
(54) OSTOMY APPLIANCE SYSTEM,	(21) EP14889418.1	United States of America
MONITOR DEVICE, AND METHOD	(47) 12.07.2023	United States of America
OF MONITORING AN OSTOMY	(87) US2014068236	(51) A61F 13/20
APPLIANCE	22.10.2015	(11) EP3534857
(73) Coloplast A/S	(22) 02.12.2014	(21) EP17801226.6
(72) SPEIERMANN, Finn	(54) IMPLANTS FOR PELVIC ORGAN	(47) 12.07.2023
HANSEN, Jais Ask	PROLAPSE SUPPORT	(87) US2017060350
(31) PA201770994	(73) National Taiwan University Hospital	11.05.2018
PA201770979	Wo, Andrew Man, Chung	(22) 07.11.2017
(32) 22.12.2017	National Taiwan University	(54) TAMPON
22.12.2017	(72) LIN, Ho-Hsiung	(73) The Procter & Gamble Company
(33) Denmark	CHANG, Ting-Chen	(72) BROWN, Henry, A.
Denmark	(31) 103114214	SEMIDEYFLECHA, Lymarie
(51) A61F 5/443	(32) 18.04.2014	MINOGUCHI, Ryo
A61F 5/448	(33) Taiwan, Chinese Taipei	VIENS, Gerard, A.
(11) EP3706675	(51) A61F 7/02	(31) 201662418496 P
(21) EP18799662.4	(11) EP3177242	(32) 07.11.2016
(47) 12.07.2023	(21) EP15830156.4	(33) United States of America
(87) DK2018050280	(47) 12.07.2023	(51) A61F 13/26
16.05.2019	(87) US2015043798	(11) EP3217933
(22) 02.11.2018	11.02.2016	(21) EP15797559.0
(54) AN ADHESIVE WAFER WITH A	(22) 05.08.2015	(47) 12.07.2023
NEUTRALIZER MATRIX	(54) INTEGRATED MULTISECTIONAL HEAT	(87) US2015059889
(73) Coloplast A/S	EXCHANGER	19.05.2016
(72) FELDSKOV NIELSEN, Lene	(73) Coolsystems, Inc.	(22) 10.11.2015
RAMOS GALLEG0, Monica	(72) HUFF, Bryan	(54) COMPACT TAMPON APPLICATOR
(31) PA201770837	HILTON, Tamara L.	WITH TWO-PIECE PLUNGER
(32) 08.11.2017	LOWE, Mark H.	(73) Edgewell Personal Care Brands, LLC
(33) Denmark	(31) 201462057091 P	(72) BUELL, Sezen
(51) A61F 5/445	201462033569 P	MOHAMED, Hassan
A61F 5/443	(32) 29.09.2014	FEDORA, Joseph
A61F 5/44	05.08.2014	MCCANDLESS, James
(11) EP3727243	(33) United States of America	PREISNER, Peter
(21) EP18830378.8	United States of America	(31) 201462077397 P
(47) 12.07.2023	(51) A61F 7/02	(32) 10.11.2014
(87) DK2018050401	A61F 7/08	(33) United States of America
27.06.2019	A61F 7/10	(51) A61F 13/42
(22) 20.12.2018	A61F 7/00	(11) EP3986350
(54) BASE PLATE AND SENSOR	(11) EP3250163	(21) EP20796702.7
ASSEMBLY OF AN OSTOMY SYSTEM	(21) EP16744190.6	(47) 12.07.2023
HAVING A LEAKAGE SENSOR	(47) 12.07.2023	(87) EP2020078034
(73) Coloplast A/S	(87) US2016015688	15.04.2021
(72) HVID, Niels	04.08.2016	(22) 07.10.2020
SPEIERMANN, Finn	(22) 29.01.2016	(54) DEVICE FOR MONITORING THE
HANSEN, Jais Ask	(54) MEDICAL PAD FOR THERMOTHERAPY	STATUS OF A NAPPY
LARSEN, Lars Erup	(73) Medivance Incorporated	(73) mySenti GmbH
(31) PA201771003	(72) HART, Keir David	(72) HERWEG, Manuel
(32) 22.12.2017	VOORHEES, Mark E.	(31) 102019126991
(33) Denmark	HOGLUND, Michael R.	(32) 08.10.2019
(51) A61F 6/04	(51) A61F 9/008	(33) Germany
A61F 5/41	(11) EP3593771	(51) A61F 13/511
A61M 37/00	(21) EP19185801.8	A61F 13/512
(11) EP3501460	(47) 12.07.2023	A61F 13/513
(21) EP17847057.1	(22) 17.11.2016	A61F 13/15
(47) 12.07.2023		(11) EP3451994

(21) EP17793164.9	(54) HOSPITAL BED AND PATIENT SUPPORT EASY TO CLEAN AND MAINTAIN	A61H 1/02
(47) 12.07.2023		A61F 5/01
(87) US2017030644		A61F 2/64
09.11.2017	(73) Bergmann, Jean-Paul	(11) EP3593782
(22) 02.05.2017	(72) Bergmann, Jean-Paul	(21) EP17900009.6
(54) FORMED FILMS AND APPARATUS FOR MANUFACTURING SAME	(31) PA201770696	(47) 12.07.2023
(73) Fitesa Film Products LLC	(32) 15.09.2017	(87) JP2017034189
(72) SKOCHDOPOLE, Todd R.	(33) Denmark	13.09.2018
SPLENDIANI, Antonietta	(51) A61G 7/10	(22) 22.09.2017
LOOMIS, Brian C.	(11) EP2965736	(54) ELBOW/KNEE JOINT ASSISTANCE DEVICE
RENNER, John Richard	(21) EP15176196.2	(73) Sakima Prosthetics&Orthotics Co., Ltd.
(31) 201662369624 P	(47) 12.07.2023	(72) SAKIMA Tamotsu
201662330589 P	(22) 10.07.2015	MATSUMOTO Hideo
(32) 01.08.2016	(54) STANDING FRAME	(31) 2017042317
02.05.2016	(73) Altimate Medical, Inc.	(32) 07.03.2017
(33) United States of America	(72) GARDEEN, Andrew	(33) Japan
United States of America	LOKKEN, Michael	
(51) A61F 13/513	PERLICH, Nancy	(51) A61H 3/04
A61F 13/514	SCHMIDT, Jeffrey	B62K 5/003
A61F 13/537	FLUCK, Travis	(11) EP3609458
D04H 3/007	SCHMITT, Mark	(21) EP18712531.5
D04H 3/018	OVRE, Wesley	(47) 12.07.2023
D04H 3/147	HAUGEN, Matthew	(87) EP2018056065
D04H 3/16	(31) 201414327943	18.10.2018
A61F 13/51	(32) 10.07.2014	(22) 12.03.2018
(11) EP3576697	(33) United States of America	(54) MOBILE WALKING AID
(21) EP18704682.6	(51) A61G 7/10	(73) Orthoscoot GmbH
(47) 12.07.2023	B66F 11/00	(72) HERTLE, Andreas
(87) US2018015121	(11) EP3675789	HEINRICH, Frank
09.08.2018	(21) EP18850206.6	(31) 202017102137 U
(22) 25.01.2018	(47) 12.07.2023	(32) 10.04.2017
(54) SHAPED NONWOVEN	(87) FI2018050612	(33) Germany
(73) The Procter & Gamble Company	07.03.2019	(51) A61H 9/00
(72) GRENIER, Adrien	(22) 30.08.2018	(11) EP3801435
SINIGAGLIA, Stefano, Michele	(54) PERSON HOISTING DEVICE AND A METHOD FOR PRODUCING MOTIVE POWER OF A PERSON HOISTING DEVICE	(21) EP19726448.4
ASHRAF, Arman		(47) 12.07.2023
WEISMAN, Paul, Thomas		(87) EP2019064039
JAMES, Martin, Ian	(73) Kailamed Oy	05.12.2019
(31) 201762452566 P	(72) NIEMI, Salme	(22) 29.05.2019
(32) 31.01.2017	KAILASUO, Marko	(54) PRESSURE APPLICATION GARMENT
(33) United States of America	(31) 20175774	(73) Neuraltide
(51) A61G 1/04	(32) 30.08.2017	(72) BERTHET, Karine
(11) EP3200655	(33) Finland	(31) 1854686
(21) EP15847001.3	(51) A61H 1/02	(32) 31.05.2018
(47) 12.07.2023	A61H 39/00	(33) France
(87) US2015053550	A63B 22/02	(51) A61H 33/00
07.04.2016	A63B 23/04	A61H 33/14
(22) 01.10.2015	A61H 3/00	A61H 35/00
(54) MODULAR STRETCHER OR LITTER	(11) EP3982901	(11) EP3576708
(73) Ferno-Washington, Inc.	(21) EP20743764.1	(21) EP18715952.0
(72) CHINN, Robert	(47) 12.07.2023	(47) 12.07.2023
(31) 201462058459 P	(87) IB2020055260	(87) HU2018050005
(32) 01.10.2014	17.12.2020	09.08.2018
(33) United States of America	(22) 04.06.2020	(22) 24.01.2018
(51) A61G 7/005	(54) INFRARED RAY EQUIPMENT FOR ROBOTIC REHABILITATION ON A TREADMILL, HAVING FLEXIBLE PELVIC ATTACHMENT	(54) APPARATUS FOR TRANSCUTANEOUS TREATMENT BY GAS
A61G 7/008		(73) Berta, Zsolt Zoltán
A61G 7/012	(73) Pandhora Srl	Tóth, Béla Ernő
A61G 7/015	(72) TRONCONE, Chrystel	(72) Berta, Zsolt Zoltán
A61G 7/018	TRONCONE, Alexander	Tóth, Béla Ernő
(11) EP3681456	TRONCONE, Stefano	(31) 1700334
(21) EP18769278.5	(31) 201900001812 U	1700043
(47) 12.07.2023	(32) 11.06.2019	(32) 02.08.2017
(87) DK2018050220	(33) Italy	31.01.2017
21.03.2019	(51) A61H 3/00	(33) Hungary
(22) 05.09.2018	A61F 5/02	Hungary
		(51) A61J 1/14
		A61J 1/16

G21F 5/015	201261651322 P	(33) Australia
A61J 1/20	201161578658 P	Australia
(11) EP3784199	201161578674 P	Australia
(21) EP19727728.8	201161578649 P	(51) A61K 8/02
(47) 12.07.2023	201113333574	A61K 8/22
(87) IB2019053346	PCT/US2011/066588	A61K 8/24
31.10.2019	(32) 03.08.2012	A61K 8/38
(22) 23.04.2019	24.05.2012	A61K 8/34
(54) ACCESS AND VAPOR CONTAINMENT SYSTEM FOR A DRUG VIAL AND METHOD OF MAKING AND USING SAME	21.12.2011	A61K 8/49
(73) Hospira, Inc.	21.12.2011	A61K 8/73
(72) TREVES, Amichai	21.12.2011	A61K 8/81
HENSON, Robert William	(33) United States of America	A61K 8/86
FULGHUM III, Jesse Carl	United States of America	A61Q 11/00
ZIGNEGO, Jay Colton	United States of America	(11) EP3958818
MOSLER, Theodore J.	United States of America	(21) EP20723486.5
FOSHEE, David Lee	United States of America	(47) 12.07.2023
BROWKA, Edward Paul	United States of America	(87) GB2020051000
CHUDEK, Christopher William	World Intellectual Property Office (WIPO)	29.10.2020
RUSH, Benjamin L.	(51) A61J 15/00	(22) 22.04.2020
(31) 201916390477	A61M 25/00	(54) TOOTH WHITENING FILM, PROCESS OF MANUFACTURE THEREOF AND A METHOD OF USING SUCH A FILM
201862661309 P	A61M 25/095	(73) Bsolve Limited
(32) 22.04.2019	(11) EP3636243	(72) GRANT, Sarah Lindsay
23.04.2018	(21) EP18797729.3	LIVINGSTONE, Mark Alexander
(33) United States of America	(47) 12.07.2023	MACFARLANE, Melanie
United States of America	(87) JP2018017706	CULLEN, John Edward
(51) A61J 3/07	15.11.2018	STEVENS, Ian Herbert
B65B 1/38	(22) 08.05.2018	CRICHTON, Robert
(11) EP3369409	(54) CATHETER DEVICE	LEES, Amy
(21) EP17000326.3	(73) Mato, Takashi	WARNOCK, Moira
(47) 12.07.2023	(72) UOZUMI, Takeki	(31) 201905667
(22) 02.03.2017	NAGAI, Katsuya	(32) 23.04.2019
(54) METHOD AND DEVICE FOR DOSING POWDER-FORM FILLER	SOETA, Kaoru	(33) United Kingdom
(73) Harro Höfliger Verpackungsmaschinen GmbH	KAMIMURA, Hideki	(51) A61K 8/11
(72) Höpfer, Jonas	MATO, Takashi	B01J 13/14
Weigel, Marco	(31) 2017094886	C08L 75/00
Gaus, Philipp	(32) 11.05.2017	A61Q 19/00
Huhnen, Florian	(33) Japan	A61K 8/84
(51) A61J 7/00	(51) A61K 6/00	C08G 18/64
A61M 5/142	A61K 8/19	C08G 18/78
A61M 5/145	A61K 8/24	C08G 18/79
A61M 5/168	A61K 33/42	C08G 18/80
A61J 3/00	A61K 33/24	C08G 18/32
G01B 11/02	A61K 38/00	C08L 75/02
G01F 15/02	A61K 38/03	C11D 3/50
G01F 22/00	A61P 1/02	(11) EP3033066
(11) EP3556341	A61Q 11/00	(21) EP14836237.9
(21) EP19178956.9	A61K 9/00	(47) 12.07.2023
(47) 12.07.2023	A61K 9/68	(87) US2014051309
(22) 21.12.2012	A61K 6/20	19.02.2015
(54) SYSTEM, METHOD, AND APPARATUS FOR DISPENSING ORAL MEDICATIONS	A61K 6/74	(22) 15.08.2014
(73) DEKA Products Limited Partnership	(11) EP3086751	(54) POLYUREA OR POLYURETHANE CAPSULES
(72) FARLOW, Jared N	(21) EP14873771.1	(73) International Flavors & Fragrances Inc.
COLLINS, David E	(47) 12.07.2023	(72) XU, Li
KAMEN, Dean	(87) AU2014050447	POPPELWELL, Lewis, Michael
ZOBRO, Jonathan	02.07.2015	LEI, Yabin
TURNER, James G	(22) 24.12.2014	(31) 201313969038
SABIN, Erik N	(54) STABILIZED STANNOUS COMPOSITIONS	201313968862
ZASLOW, Benjamin	(73) The University Of Melbourne	201313967800
THERRIEN, Alexander R	(72) REYNOLDS, Eric Charles	(32) 16.08.2013
RIVINIUS, Gregg W	(31) 2014903815	16.08.2013
(31) 201261679117 P	2014901202	15.08.2013
	2013905081	(33) United States of America
	(32) 24.09.2014	United States of America
	03.04.2014	United States of America
	24.12.2013	(51) A61K 8/19

A61K 8/21	JANSSEN, Anne	Sabancı Üniversitesi Nanoteknoloji
A61K 8/64	DUESTERLOH, Andre	Araştırma Ve Uygulama Merkezi Sunum
A61K 8/365	(31) PCT/EP2016/177428	Sabancı Üniversitesi
A61Q 11/00	PCT/EP2016/176428	(72) ZUVIN, Merve
(11) EP3988077	(32) 01.07.2016	KOSAR, Ali
(21) EP21196601.5	27.06.2016	SEVGEN, Mükerrerem, Ilker
(47) 12.07.2023	(33) World Intellectual Property Office (WIPO)	YAGCI ACAR, Havva
(22) 14.09.2021	World Intellectual Property Office (WIPO)	AKGÖNÜL, Sarp
(54) ORAL COMPOSITION	(51) A61K 8/58	GÖZÜACIK, Devrim
(73) GC Laboratory America Inc.	A61Q 5/06	KUTLU, Özlem
(72) Sato, Takuya	A61K 8/73	(51) A61K 9/00
Honda, Kosuke	A61K 8/81	A61K 38/12
(31) 202017038607	(11) EP3033071	A61K 47/34
(32) 30.09.2020	(21) EP14748210.3	A61P 5/00
(33) United States of America	(47) 12.07.2023	A61P 5/06
(51) A61K 8/27	(87) EP2014066994	A61P 13/08
A61K 8/49	19.02.2015	A61P 15/00
A61K 8/81	(22) 07.08.2014	A61P 15/08
A61Q 5/00	(54) COMPOSITION COMPRISING A	A61P 15/18
A61K 9/06	SILANE, A PARTICULAR FIXING	A61P 19/06
(11) EP2934454	POLYMER AND A CELLULOSE-BASED	A61P 25/04
(21) EP13803061.4	THICKENING POLYMER	A61P 25/18
(47) 12.07.2023	(73) L'OREAL	A61P 27/02
(87) EP2013076530	(72) BEBOT, Cécile	A61P 29/00
26.06.2014	PASQUET, Dorothée	A61P 31/00
(22) 13.12.2013	(31) 1357967	A61P 33/00
(54) ANTI-DANDRUFF COMPOSITION	(32) 13.08.2013	A61P 35/00
(73) L'OREAL	(33) France	A61P 37/00
(72) CASTILLO BUCCI, Carmen	(51) A61K 8/73	C08G 63/08
PATEL, Kamini	A61Q 1/02	C08G 63/90
(31) 201213724576	A61K 8/02	A61K 38/08
(32) 21.12.2012	C08J 3/12	(11) EP3660073
(33) United States of America	C08L 1/28	(21) EP19203071.6
(51) A61K 8/49	C08L 1/14	(47) 12.07.2023
A61K 8/365	C08L 1/10	(22) 13.02.2008
A61Q 1/00	C08B 11/193	(54) LOW-BURST POLY(LACTIDE-CO-
A61Q 5/00	C08B 3/10	GLYCOLIDE)
A61Q 19/00	A61Q 19/00	(73) Tolmar International Limited
A61K 8/44	A61Q 19/08	(72) MIDDLETON, John
(11) EP3192493	(11) EP3711747	DADEY, Eric
(21) EP15840001.0	(21) EP20163867.3	NORTON, Richard, L.
(47) 12.07.2023	(47) 12.07.2023	(31) 901435 P
(87) JP2015075691	(22) 18.03.2020	(32) 15.02.2007
17.03.2016	(54) CELLULOSE DERIVATIVE PARTICLES,	(33) United States of America
(22) 10.09.2015	COSMETIC COMPOSITION, AND	(51) A61K 9/00
(54) MOISTURIZER AND COSMETIC	METHOD FOR PRODUCING	A61K 47/40
CONTAINING SAME	CELLULOSE DERIVATIVE PARTICLES	A61K 31/166
(73) AJINOMOTO CO., INC.	(73) Daicel Corporation	A61Q 19/02
(72) OSHIMURA, Eiko	(72) KOBAYASHI, Keiko	A61Q 19/00
HARAYA, Nana	OMURA, Masaya	A61K 8/73
(31) 2014184373	(31) 2019054171	A61K 8/42
(32) 10.09.2014	(32) 22.03.2019	A61K 31/724
(33) Japan	(33) Japan	A61P 17/00
(51) A61K 8/55	(51) A61K 9/00	(11) EP3610865
A61Q 17/04	A61K 9/51	(21) EP18776715.7
A61Q 19/00	A61M 37/00	(47) 12.07.2023
A61K 8/06	C12N 13/00	(87) KR2018003536
(11) EP3474816	C12N 15/87	04.10.2018
(21) EP17733457.0	(11) EP3927425	(22) 26.03.2018
(47) 12.07.2023	(21) EP19726520.0	(54) COMPOSITION COMPRISING
(87) EP2017065891	(47) 12.07.2023	BENZOIC ACID AMIDE COMPOUND
04.01.2018	(87) TR2019050115	AND CYCLODEXTRIN SOLUBILIZING
(22) 27.06.2017	27.08.2020	AGENT
(54) TOPICAL COMPOSITIONS	(22) 20.02.2019	(73) Amorepacific Corporation
(73) DSM IP Assets B.V.	(54) ROTARY MAGNETIC ACTUATION	(72) SHIN, Hong-ju
(72) RUDOLPH, Thomas	SYSTEM	PARK, Sung Il
MENDROK-EDINGER, Christeine	(73) KOC Universitesi	KIM, Suil
RADOMSKY, Karina		YI, Chang-geun

(31) 20170042192	TADA, Takahiro	(47) 12.07.2023
(32) 31.03.2017	YOKOTA, Shiro	(87) US2016061157
(33) Korea (Republic)	(31) 2012108972	18.05.2017
(51) A61K 9/00	(32) 11.05.2012	(22) 09.11.2016
A61M 5/315	(33) Japan	(54) ECHINOMYCIN FORMULATION,
A61K 9/08	(51) A61K 9/107	METHOD OF MAKING AND METHOD
A61K 31/197	A61K 9/113	OF USE THEREOF
A61P 21/02	A61K 47/02	(73) Children's Research Institute, Children's
(11) EP2548594	A61K 47/06	National Medical Center
(21) EP11006015.9	A61K 47/26	(72) BAILEY, Christopher
(47) 12.07.2023	A61K 47/44	LIU, Yang
(22) 22.07.2011	A61P 17/00	ZHENG, Pan
(54) Intrathecal baclofen pharmaceutical	A61P 29/00	LIU, Yan
dosage forms and related delivery	A61P 43/00	WANG, Yin
system	C12N 15/113	(31) 201562253257 P
(73) Piramal Critical Care Inc.	(11) EP2533763	(32) 10.11.2015
(72) Prentice, Thomas R.	(21) EP11705444.5	(33) United States of America
Foster, John	(47) 12.07.2023	(51) A61K 9/14
(51) A61K 9/02	(87) EP2011000648	A61K 47/69
A61K 9/14	18.08.2011	(11) EP3238711
A61K 9/20	(22) 11.02.2011	(21) EP17167718.0
A61K 9/48	(54) DERMATOLOGICAL,	(47) 12.07.2023
A61K 38/28	PHARMACEUTICAL COMPOSITION	(22) 24.04.2017
C07K 14/62	SUITABLE FOR OLIGONUCLEOTIDES	(54) BASE FOR SOLID DISPERSION,
A61P 1/14	(73) Sterna Biologicals GmbH	PRODUCTION METHOD FOR SOLID
A61K 9/00	(72) SCHMIDTS, Thomas	DISPERSION USING SAME, AND
A61K 45/06	RUNKEL, Frank	SOLID DISPERSION
(11) EP3432861	GARN, Holger	(73) Mitsubishi Chemical Corporation
(21) EP17771247.8	(31) 102010007562	(72) TSUJI, Kazutoshi
(47) 12.07.2023	(32) 10.02.2010	MANDAI, Shusaku
(87) US2017024053	(33) Germany	HARA, Kouji
28.09.2017	(51) A61K 9/107	(31) 2017074427
(22) 24.03.2017	A61K 39/39	2016087648
(54) USE OF INSULIN FOR PROMOTING	A61K 39/145	(32) 04.04.2017
GASTRIC EMPTYING	A61K 47/44	26.04.2016
(73) Elgan Pharma Ltd.	A61K 47/14	(33) Japan
(72) ATAROT, Tal	A61K 47/22	Japan
OLSHANSKY, Michal	A61K 47/06	(51) A61K 9/16
(31) 201662312473 P	A61P 37/02	A61K 49/04
(32) 24.03.2016	(11) EP3015114	A61L 29/18
(33) United States of America	(21) EP14895356.5	A61P 35/00
(51) A61K 9/10	(47) 12.07.2023	(11) EP3541368
A61K 9/14	(87) CN2014092290	(21) EP17808643.5
A61K 31/12	23.12.2015	(47) 12.07.2023
A61K 31/167	(22) 26.11.2014	(87) US2017059406
A61K 31/192	(54) OIL-IN-WATER EMULSION	24.05.2018
A61K 31/196	CONTAINING NO SURFACTANT AND	(22) 31.10.2017
A61K 31/216	USE THEREOF	(54) IMAGEABLE PARTICLES, METHODS
A61K 31/405	(73) Institute Of Process Engineering Chinese	OF MAKING AND METHODS OF USE
A61K 31/41	Academy Of Sciences	THEREOF
A61K 31/445	(72) WU, Jie	(73) The United States of America,
A61K 31/57	YANG, Liuqing	as represented by the Secretary,
A61K 31/573	XIA, Yufei	Department of Health and Human
A61K 31/7048	QI, Feng	Services
A61P 43/00	FAN, Qingze	Biocompatibles UK Limited
A61P 29/00	MA, Guanghui	(72) BRITTON, Hugh
(11) EP2848243	(31) 201410272743	WOOD, Bradford Johns
(21) EP13787260.2	(32) 18.06.2014	NEGUSSIE, Ayele H.
(47) 12.07.2023	(33) China	VINCE, Jonathan
(87) JP2013003023	(51) A61K 9/127	(31) 201762459242 P
14.11.2013	A61K 31/395	201662422972 P
(22) 11.05.2013	A61K 35/74	(32) 15.02.2017
(54) ORGANIC COMPOUND	A61K 38/08	16.11.2016
NANOPOWDER, PRODUCTION	A61K 38/12	(33) United States of America
METHOD THEREFOR, AND	A61P 37/02	United States of America
SUSPENSION	A61P 35/02	(51) A61K 9/46
(73) Actavis Pharma Co., Ltd.	(11) EP3373910	A61K 9/14
(72) KAGAMI, Kazuhiro	(21) EP16864923.4	A61K 9/16

A61K 9/20	04.02.2021	A61P 25/04
A61K 9/48	(22) 28.07.2020	(11) EP3675847
A61K 31/58	(54) PROCESS FOR PREPARING	(21) EP18850498.9
(11) EP4057996	ADHESIVE COMPOUNDS FOR USE	(47) 12.07.2023
(21) EP20828553.6	IN A TRANSDERMAL THERAPEUTIC	(87) US2018048372
(47) 12.07.2023	SYSTEM	07.03.2019
(87) IB2020060691	(73) LTS LOHMANN Therapie-Systeme AG	(22) 28.08.2018
20.05.2021	(72) LODDER-GADACZEK, Julia	(54) SPIROCYLE COMPOUNDS AND
(22) 13.11.2020	HAMMES, Florian	METHODS OF MAKING AND USING
(54) AMORPHOUS PHARMACEUTICAL	ORTH, Michael	SAME
COMPOSITIONS OF ABIRATERONE	TELLKAMP-SCHEHR, Tobias	(73) H. Lundbeck A/S
ACETATE	(31) 102019120403	(72) JONES, Todd K.
(73) Suven Life Sciences Limited	(32) 29.07.2019	GRICE, Cheryl A.
(72) NIROGI, Ramakrishna	(33) Germany	WEBER, Olivia D.
DOGIPARTI, Dhanunjay Kumar	(51) A61K 31/216	BUZARD, Daniel J.
RAVULA, Jyothsna	A61K 36/534	SHAGHAFI, Michael B.
MUDIGONDA, Koteshwara	A23L 2/00	(31) 201762551721 P
JASTI, Venkateswarlu	A61P 25/28	(32) 29.08.2017
(31) 201941046346	(11) EP3538085	(33) United States of America
(32) 14.11.2019	(21) EP17869492.3	(51) A61K 31/337
(33) India	(47) 12.07.2023	A61K 31/4184
(51) A61K 31/00	(87) US2017056165	A61K 31/445
A61K 31/4168	17.05.2018	A61K 31/517
A61P 25/28	(22) 11.10.2017	A61K 47/69
(11) EP3618817	(54) USE OF A SPEARMINT EXTRACT	A61P 35/00
(21) EP18725004.8	FOR IMPROVING THE RATE OF	A61K 47/59
(47) 12.07.2023	NEUROGENESIS	(11) EP3695851
(87) NL2018050293	(73) Kemin Industries, Inc.	(21) EP20165386.2
08.11.2018	(72) FONSECA, Brenda	(47) 12.07.2023
(22) 04.05.2018	HERRLINGER, Kelli	(22) 13.03.2017
(54) THERAPEUTIC EFFECTS OF	(31) 201662420994 P	(54) OLIGOLACTIC ACID CONJUGATES
GUANABENZ TREATMENT IN	(32) 11.11.2016	AND MICELLES WITH ENHANCED
VANISHING WHITE MATTER	(33) United States of America	ANTICANCER EFFICACY
(73) Stichting VUmc	(51) A61K 31/23	(73) Wisconsin Alumni Research Foundation
(72) HEINE, Vиви Majella	A61K 31/19	(72) TAM, Yu Tong
ABBINK, Gertrude Elise Maria	A61K 31/20	KWON, Glen
VAN DER KNAAP, Margo Sientje	A61K 31/225	(31) 201662307830 P
(31) 17169488	A61K 45/06	(32) 14.03.2016
(32) 04.05.2017	A61K 31/355	(33) United States of America
(33) European Patent Office (EPO)	A61K 31/185	(51) A61K 31/395
(51) A61K 31/12	A61K 31/198	A61K 31/505
A61K 31/34	A61K 33/06	A61K 31/519
A61P 35/04	A61P 9/04	C07D 471/00
(11) EP2810198	A61P 9/06	C07D 471/02
(21) EP13702622.5	A61P 9/00	C07D 471/04
(47) 12.07.2023	A61P 9/12	A61P 31/14
(87) EP2013051728	(11) EP3630088	C07D 487/04
08.08.2013	(21) EP18728346.0	(11) EP3687529
(22) 30.01.2013	(47) 12.07.2023	(21) EP18860177.7
(54) ANTI-INVASIVE COMPOUNDS	(87) EP2018063958	(47) 12.07.2023
(73) Universiteit Gent	06.12.2018	(87) US2018052965
(72) BRACKE, Marc	(22) 28.05.2018	04.04.2019
STEVENS, Christian	(54) MEDIUM CHAIN FATTY ACIDS FOR	(22) 26.09.2018
ROMAN, Bart	USE IN THE PREVENTION OR	(54) POTENT ANTIVIRAL PYRIDINE-
VANHOECKE, Barbara	TREATMENT OF VALVULAR HEART	CONTAINING COMPOUNDS
DE RYCK, Tine	DISEASE	(73) The Regents of the University of
(31) 12175223	(73) Société des Produits Nestlé S.A.	California
12153062	(72) BEAUMONT, Maurice	(72) XING, Yanpeng
(32) 06.07.2012	LI, Qinghong	JUNG, Michael E.
30.01.2012	(31) 201762512118 P	KROGSTAD, Paul
(33) European Patent Office (EPO)	(32) 29.05.2017	ZUO, Jun
European Patent Office (EPO)	(33) United States of America	(31) 201762564182 P
(51) A61K 31/137	(51) A61K 31/27	(32) 27.09.2017
A61K 9/70	A61K 31/435	(33) United States of America
(11) EP4003312	A61K 31/438	(51) A61K 31/403
(21) EP20751097.5	C07D 295/205	A61K 31/407
(47) 12.07.2023	C07D 403/04	A61P 35/00
(87) EP2020071312	C07D 471/10	A61P 29/00

A61K 31/415	(54) USE OF TOPICAL BRAF INHIBITOR	MEDICAL PRODUCTS AND METHOD
(11) EP3324959	COMPOSITIONS FOR TREATMENT OF	OF TREATING SMOKING ADDICTION
(21) EP16828250.7	RADIATION DERMATITIS	(73) Pharma Unlimited B.V.
(47) 12.07.2023	(73) Lutris Pharma Ltd.	(72) BAKKER, Keith Benjamin
(87) US2016042009	(72) LOWENTON-SPIER, Noa	(31) 2018504
26.01.2017	SHELACH, Noa	(32) 13.03.2017
(22) 13.07.2016	(31) 201962804235 P	(33) Netherlands
(54) LICOFELONE DERIVATIVES AND	(32) 12.02.2019	(51) A61K 31/47
METHODS OF USE	(33) United States of America	A61K 31/4545
(73) The Board Of Regents Of The University	(51) A61K 31/4439	A61K 45/06
Of Oklahoma	A61K 31/4155	A61P 5/24
(72) MOHAMMED, Altaf	A61P 27/02	(11) EP3041509
RAO, Chinthalapally V.	A61P 43/00	(21) EP14762086.8
JANAKIRAM, Naveena B.	A61K 31/437	(47) 12.07.2023
PATHURI, Gopal	A61K 31/5377	(87) GB2014052707
GALI, Hariprasad	A61K 31/167	12.03.2015
(31) 201562194071 P	A61K 31/4418	(22) 05.09.2014
(32) 17.07.2015	(11) EP3069732	(54) NKR3 ANTAGONISTS FOR TREATING
(33) United States of America	(21) EP14861468.8	OR PREVENTING HOT FLUSHES
(51) A61K 31/415	(47) 12.07.2023	(73) Imperial College Innovations Limited
A61K 31/4155	(87) JP2014080831	(72) DHILLO, Waljit
A61K 31/44	21.05.2015	JAYASENA, Channa
A61K 31/444	(22) 13.11.2014	(31) 201315846
A61K 31/421	(54) DRUG FOR TREATING CORNEAL	(32) 05.09.2013
A61K 31/4427	ENDOTHELIUM BY PROMOTING CELL	(33) United Kingdom
A61K 31/427	PROLIFERATION OR INHIBITING CELL	(51) A61K 31/501
A61K 31/4439	DAMAGE	A61P 29/00
A61K 31/485	(73) The Doshisha	C07D 237/02
C07D 401/04	(72) KOIZUMI, Noriko	C07D 237/22
A61K 31/497	KINOSHITA, Shigeru	C07D 401/12
A61K 31/506	OKUMURA, Naoki	(11) EP3873472
C07D 401/02	(31) 2013235768	(21) EP19801229.6
C07D 405/04	(32) 14.11.2013	(47) 12.07.2023
A61P 1/18	(33) Japan	(87) EP2019079231
A61K 45/06	(51) A61K 31/453	07.05.2020
(11) EP3261641	A61K 31/165	(22) 25.10.2019
(21) EP16756509.2	A61K 31/198	(54) NOVEL PYRIDAZINES
(47) 12.07.2023	A61K 31/355	(73) Boehringer Ingelheim International
(87) US2016019924	A61K 31/4462	GmbH
01.09.2016	A61P 43/00	(72) BRETSCHEIDER, Tom
(22) 26.02.2016	A61P 25/00	KUTTRUFF, Christian Andreas
(54) PANCREATITIS TREATMENT	(11) EP3606522	ROTH, Gerald Juergen
(73) Calcimedica, Inc.	(21) EP17758900.9	(31) 18203226
(72) ROOS, Jack	(47) 12.07.2023	(32) 29.10.2018
VELICELEBI, Gonul	(87) EP2017072172	(33) European Patent Office (EPO)
DUNN, Michael	11.10.2018	(51) A61K 31/502
STAUDERMAN, Kenneth	(22) 05.09.2017	A61K 31/517
(31) 201562126386 P	(54) NOVEL TREATMENT OF	C07D 401/04
(32) 27.02.2015	MITOCHONDRIAL DISEASES	(11) EP3634417
(33) United States of America	(73) KHONDRION IP B.V.	(21) EP18803171.0
(51) A61K 31/437	(72) SMEITINK, Johannes Albertus Maria	(47) 12.07.2023
A61K 31/52	BEYRATH, Julien David	(87) US2018032868
A61K 9/00	(31) 17165012	22.11.2018
A61K 9/06	(32) 05.04.2017	(22) 16.05.2018
A61K 31/4409	(33) European Patent Office (EPO)	(54) QUINAZOLINE-PYRAZOLE
A61K 31/454	(51) A61K 31/465	DERIVATIVES FOR THE TREATMENT
A61K 31/506	A61K 45/06	OF CANCER-RELATED DISORDERS
A61K 31/517	A61K 31/05	(73) Arcus Biosciences, Inc.
A61K 31/498	A61P 25/34	(72) SHARIF, Ehesan Ul
A61P 17/00	(11) EP3595662	MILES, Dillon Harding
A61P 35/00	(21) EP17728942.8	ROSEN, Brandon Reid
(11) EP3923911	(47) 12.07.2023	LELETI, Manmohan Reddy
(21) EP20756229.9	(87) NL2017050296	POWERS, Jay Patrick
(47) 12.07.2023	20.09.2018	(31) 201762507540 P
(87) IB2020051073	(22) 12.05.2017	(32) 17.05.2017
20.08.2020	(54) TOBACCO- AND SMOKE-LESS	(33) United States of America
(22) 11.02.2020	PRODUCTS CONSUMABLE BY	(51) A61K 31/506
	HUMANS AS EPICUREAN OR	A61K 31/635

A61P 35/00	(72) KOJIMA Ryo	A61P 9/10
(11) EP3383396	SAKAI Toshiro	A61K 31/575
(21) EP16819235.9	AZUMA Ryota	A61P 25/00
(47) 12.07.2023	TANAKA Marina	A61K 45/06
(87) US2016064824	(31) 2018163234	(11) EP3733190
08.06.2017	(32) 31.08.2018	(21) EP18896693.1
(22) 02.12.2016	(33) Japan	(47) 12.07.2023
(54) CERDULATINIB AND VENETOCLAX	(51) A61K 31/519	(87) CN2018124705
FOR TREATING NON-HODGKIN'S	A61P 35/00	04.07.2019
LYMPHOMA	(11) EP3533449	(22) 28.12.2018
(73) Alexion Pharmaceuticals, Inc.	(21) EP17864975.2	(54) USE OF COMPOUND IN
(72) FENG, Jiajia	(47) 12.07.2023	PREPARATION OF DRUG FOR
COFFEY, Gregory	(87) JP2017037186	TREATING CEREBRAL SMALL VESSEL
STEELE, Andrew.	03.05.2018	DISEASE
(31) 201662371145 P	(22) 13.10.2017	(73) Guangzhou Cellprotek Pharmaceutical
201662342755 P	(54) SELECTIVE INHIBITOR OF EXON 20	Co., Ltd.
201662342727 P	INSERTION MUTANT EGFR	(72) SHENG, Longxiang
201562263582 P	(73) Taiho Pharmaceutical Co., Ltd.	YAN, Guangmei
(32) 04.08.2016	(72) HASAKO, Shinichi	LIN, Suizhen
27.05.2016	MIYADERA, Kazutaka	HUANG, Yijun
27.05.2016	AOYAGI, Yoshimi	LU, Bingzheng
04.12.2015	(31) 2016213072	YIN, Wei
(33) United States of America	(32) 31.10.2016	(31) 201711484028
United States of America	(33) Japan	(32) 29.12.2017
United States of America	(51) A61K 31/5377	(33) China
United States of America	A61P 35/00	(51) A61K 31/59
(51) A61K 31/506	A61K 39/395	A23K 20/174
A61P 35/02	(11) EP3773595	A23L 33/155
(11) EP3302485	(21) EP19721103.0	A61P 19/08
(21) EP16804177.0	(47) 12.07.2023	A61P 15/08
(47) 12.07.2023	(87) IB2019052541	A23L 33/105
(87) US2016034861	03.10.2019	A61K 31/593
08.12.2016	(22) 28.03.2019	A61K 36/81
(22) 27.05.2016	(54) ANTICANCER PHARMACEUTICAL	A61P 25/28
(54) CERDULATINIB FOR THE TREATMENT	COMPOSITIONS FOR COMBINED	A61P 3/10
OF B-CELL MALIGNANCIES	THERAPY	A61P 31/00
(73) Alexion Pharmaceuticals, Inc.	(73) Berlin-Chemie AG	A61P 39/00
(72) LEEDS, Janet	(72) PELLACANI, Andrea	(11) EP3432890
PANDEY, Anjali	MERLINO, Giuseppe	(21) EP17713236.2
COFFEY, Gregory	BINASCHI, Monica	(47) 12.07.2023
(31) 201562263582 P	BIGIONI, Mario	(87) EP2017056871
201562168530 P	(31) 201800004082	28.09.2017
(32) 04.12.2015	(32) 29.03.2018	(22) 22.03.2017
29.05.2015	(33) Italy	(54) PRODUCT, IN PARTICULAR
(33) United States of America	(51) A61K 31/565	NUTRITIONAL SUPPLEMENT,
United States of America	A61K 31/57	ANIMAL FEED, FOODSTUFF, DRUG,
(51) A61K 31/519	A61K 31/56	COSMETIC AND/OR ANIMAL FEED
A61K 9/14	A61P 25/28	SUPPLEMENT FOR SUPPLYING AT
A61K 9/20	A61K 31/567	LEAST ONE MOLECULE THAT BONDS
A61K 9/48	A61K 31/573	TO A VITAMIN D RECEPTOR, AND
A61K 47/32	(11) EP3200802	METHOD FOR THE PRODUCTION
A61K 47/38	(21) EP15846358.8	THEREOF
A61P 21/02	(47) 12.07.2023	(73) BÜTER, Bernd
A61P 25/04	(87) US2015052805	(72) BÜTER, Bernd
A61P 25/08	07.04.2016	BERGER BÜTER, Karin
A61P 25/18	(22) 29.09.2015	(31) 102016105369
A61P 25/28	(54) COMPOSITIONS AND METHODS FOR	(32) 22.03.2016
A61P 29/02	MAINTAINING COGNITIVE FUNCTION	(33) Germany
A61P 43/00	(73) The Regents of the University of	(51) A61K 31/7068
(11) EP3845230	California	A61K 31/7072
(21) EP19855123.6	(72) VOSKUH, Rhonda, R.	A61K 45/06
(47) 12.07.2023	(31) 201562213994 P	A61P 35/00
(87) JP2019034051	201462056944 P	(11) EP3917538
05.03.2020	(32) 03.09.2015	(21) EP20703447.1
(22) 30.08.2019	29.09.2014	(47) 12.07.2023
(54) PHARMACEUTICAL COMPOSITION	(33) United States of America	(87) EP2020052632
FOR ORAL ADMINISTRATION	United States of America	06.08.2020
(73) Astellas Pharma Inc.	(51) A61K 31/568	(22) 03.02.2020



(54) DEOXY- CYTIDINE DERIVATIVES FOR USE IN CANCER THERAPIES	(31) 201762541584 P	(11) EP2988763
(73) Hemispherian AS	(32) 04.08.2017	(21) EP14788557.8
(72) ROBERTSON, Adam Brian	(33) United States of America	(47) 12.07.2023
(31) 201901427	(51) A61K 35/14	(87) AU2014050019
(32) 01.02.2019	A61K 39/00	30.10.2014
(33) United Kingdom	(11) EP3626247	(22) 22.04.2014
(51) A61K 31/7125	(21) EP19189084.7	(54) BACTERIAL STRAIN HAVING ANTIMICROBIAL ACTIVITY USED ON PLANTS
A61K 31/713	(47) 12.07.2023	(73) Terragen Holdings Limited
A61K 39/00	(22) 14.03.2014	(72) FINLAYSON, Wayne
A61K 39/02	(54) CD123-SPECIFIC CHIMERIC ANTIGEN RECEPTOR REDIRECTED T CELLS AND METHODS OF THEIR USE	JURY, Karen
A61K 39/12	(73) City of Hope	(31) 201361815038 P
A61K 39/145	(72) BROWN, Christine E.	(32) 23.04.2013
A61K 39/155	FORMAN, Stephen	(33) United States of America
A61K 39/39	MARDIROS, Armen	(51) A61K 35/741
A61P 31/04	(31) 201313844048	A61P 1/00
A61P 31/12	(32) 15.03.2013	A61P 1/14
A61P 33/00	(33) United States of America	C12N 1/20
A61P 35/00	(51) A61K 35/16	A61P 29/00
A61P 37/04	A61P 17/14	(11) EP3639834
A61P 37/08	(11) EP3247367	(21) EP19212983.1
A61P 43/00	(21) EP16701301.0	(47) 12.07.2023
C08B 37/00	(47) 12.07.2023	(22) 03.02.2017
C07H 21/04	(87) EP2016051235	(54) USE OF MICROBIAL COMMUNITIES FOR HUMAN AND ANIMAL HEALTH
C12N 15/09	28.07.2016	(73) Universiteit Gent
C12N 15/117	(22) 21.01.2016	Microbial Resource Management Health NV
(11) EP3572511	(54) PLATELET CONCENTRATE FOR INCREASE OF CELL REGENERATION AND CELL GROWTH	(72) GOTTARDI, Davide
(21) EP19182054.7	(73) Turkof, Edvin	MARZORATI, Massimo
(47) 12.07.2023	(72) TURKOF, Edvin	VAN DE WIELE, Tom
(22) 19.09.2014	ADLER, Arthur	BOLCA, Selin
(54) COMPLEX CONTAINING OLIGONUCLEOTIDE HAVING IMMUNOPOTENTIATING ACTIVITY AND USE THEREOF	DETTKE, Markus	POSSEMIERS, Sam
(73) National Institutes of Biomedical Innovation, Health and Nutrition	(31) 15151913	SCHEIRLINCX, Ilse
Daiichi Sankyo Company, Limited	(32) 21.01.2015	VAN DEN ABEELE, Pieter
(72) ISHII, Ken	(33) European Patent Office (EPO)	(31) 16154288
KOBIYAMA, Kouji	(51) A61K 35/28	(32) 04.02.2016
NIWA, Takako	C12N 5/0775	(33) European Patent Office (EPO)
AOSHI, Taiki	A61P 1/02	(51) A61K 38/10
KASUYA, Yuji	A61P 17/02	A61P 25/08
KOIZUMI, Makoto	A61P 19/04	(11) EP3076987
TAKESHITA, Fumihiko	(11) EP3328397	(21) EP14867603.4
(31) 2013196206	(21) EP16833569.3	(47) 12.07.2023
(32) 20.09.2013	(47) 12.07.2023	(87) NZ2014050016
(33) Japan	(87) US2016044458	11.06.2015
(51) A61K 35/12	09.02.2017	(22) 04.12.2014
A61K 35/34	(22) 28.07.2016	(54) METHOD OF TREATING OR PREVENTING EPILEPSY OR SEIZURES USING ONE OR MORE NEURAL REGENERATION PEPTIDES
A61K 35/545	(54) EXOSOME COMPOSITIONS AND METHODS FOR PREPARATION AND USE THEREOF FOR REGULATING AND CONDITIONING SKIN AND HAIR	(73) Curonz Holdings Company Limited
A61K 48/00	(73) Exotropin, LLC	(72) SIEG, Frank
C12N 5/095	(72) BUEHRER, Benjamin	(31) 61861413
G01N 33/574	LUDLOW, John, W.	(32) 04.12.2013
A61P 35/00	PIERACCINI, Peter	(33) New Zealand
(11) EP3661526	(31) 201562199696 P	(51) A61K 38/16
(21) EP18842075.6	(32) 31.07.2015	A61P 25/28
(47) 12.07.2023	(33) United States of America	A61K 38/39
(87) US2018044956	(51) A61K 35/74	A61P 27/02
07.02.2019	A61K 36/06	A61P 29/00
(22) 02.08.2018	A61K 35/747	(11) EP3454884
(54) CARDIOSPHERE-DERIVED CELLS AND THEIR EXTRACELLULAR VESICLES FOR TREATMENT AND PREVENTION OF CANCER	A61P 31/10	(21) EP17725893.6
(73) Cedars-Sinai Medical Center	A61P 31/04	(47) 12.07.2023
(72) MARBAN, Eduardo	A01N 63/20	(87) EP2017061151
GRIGORIAN, Lilian	A01N 63/30	16.11.2017
	A01P 1/00	(22) 10.05.2017
	A01P 3/00	

(54) AGENTS THAT ACTIVATE CD47 AND THEIR USE IN THE TREATMENT OF INFLAMMATION	A61K 31/727 A61K 35/16 A61K 38/57	(32) 13.01.2017 (33) United States of America
(73) Sorbonne Université Centre National de la Recherche Scientifique INSERM - Institut National de la Santé et de la Recherche Médicale	A61P 1/00 A61P 7/02 A61P 9/06 A61P 9/12 A61P 11/08	(51) A61K 39/00 (11) EP3672625 (21) EP18755823.4 (47) 12.07.2023 (87) EP2018072433 28.02.2019
(72) GUILLONNEAU, Xavier KAROYAN, Philippe HOUSSET, Michael SAHEL, José-Alain SENNLAUB, Florian	(11) EP3260124 (21) EP17181203.5 (47) 12.07.2023 (22) 14.05.2012 (54) METHODS TO REDUCE ADVERSE EVENTS CAUSED BY PHARMACEUTICAL PREPARATIONS COMPRISING PLASMA DERIVED PROTEINS	(22) 20.08.2018 (54) SYNTHETIC VACCINE (73) Medizinische Hochschule Hannover (72) WIRTH, Thomas SLÜTTER, Bram
(31) 17154452 16169072	(73) CSL Behring GmbH (72) Moses, Michael	(31) 17187600 (32) 23.08.2017 (33) European Patent Office (EPO)
(32) 02.02.2017 10.05.2016	(73) CSL Behring GmbH (72) Moses, Michael	(51) A61K 39/00 A61P 35/02 C12N 5/10
(33) European Patent Office (EPO) European Patent Office (EPO)	(72) Schulte, Stefan Kalina, Uwe Feussner, Annette	(11) EP3801563 (21) EP19812602.1 (47) 12.07.2023 (87) US2019034900 05.12.2019
(51) A61K 38/17 A61K 31/121 A61P 9/00 A61P 9/04 A61P 9/10 A61P 43/00	(31) 201161487205 P 11165869	(22) 31.05.2019 (54) MATERIALS AND METHODS FOR TREATING CANCER
(11) EP3445384 (21) EP17727399.2 (47) 12.07.2023	(32) 17.05.2011 12.05.2011	(73) Mayo Foundation for Medical Education and Research
(87) NL2017050254 26.10.2017	(33) United States of America European Patent Office (EPO)	(72) COX, Michelle J. KENDERIAN, Saad J. STERNER, Rosalie M. SAKEMURA, Reona
(22) 21.04.2017	(51) A61K 38/46 A61K 9/19 A61K 39/395 A61K 47/02 A61K 47/10 A61K 47/26 A61P 25/00	(31) 201862753485 P 201862679348 P
(54) COMPOSITION FOR TREATING DIASTOLIC DYSFUNCTION	(11) EP3563863 (21) EP17888295.7 (47) 12.07.2023	(32) 31.10.2018 01.06.2018
(73) Stichting VUmc (72) PAULUS, Walter Joseph	(87) JP2017047207 05.07.2018	(33) United States of America United States of America
(31) 16166468 (32) 21.04.2016	(22) 28.12.2017	(51) A61K 39/00 C07K 16/28 A61P 35/00
(33) European Patent Office (EPO)	(54) LYOPHILIZED PREPARATION (73) JCR Pharmaceuticals Co., Ltd. (72) YASUKAWA, Hidehito YAMAGUCHI, Yuka OKABE, Shinji	(11) EP3883966 (21) EP19829506.5 (47) 12.07.2023 (87) EP2019085776 25.06.2020
(51) A61K 38/17 A61K 45/06 A61P 3/06 A61K 31/4409 A61K 31/495	(31) 2016257060 (32) 28.12.2016 (33) Japan	(22) 17.12.2019
(11) EP3337497 (21) EP16839890.7 (47) 12.07.2023	(51) A61K 38/50 A61K 48/00 C12N 9/80 C12N 15/52 C12N 15/63 C12N 15/85 C12N 15/86 A61P 3/00	(54) HUMANIZED ANTI-HUMAN-PD-1 ANTIBODY (73) OSE Immunotherapeutics (72) PENGAM, Sabrina MARY, Caroline THEPENIER, Virginie POIRIER, Nicolas MORELLO, Aurore
(87) US2016047810 02.03.2017	(11) EP3568154 (21) EP18739237.8 (47) 12.07.2023	(31) 18306801 (32) 21.12.2018 (33) European Patent Office (EPO)
(22) 19.08.2016	(87) US2018013509 19.07.2018	(51) A61K 39/00 C07K 16/30 A61P 35/00 A61P 35/02 C12N 5/0783
(54) COMPOSITION AND METHODS OF USE OF NOVEL PHENYLALANINE SMALL ORGANIC COMPOUNDS TO DIRECTLY MODULATE PCSK9 PROTEIN ACTIVITY	(22) 12.01.2018	(11) EP3169773 (21) EP15750165.1 (47) 12.07.2023 (87) US2015040660
(73) SRX Cardio, LLC (72) MONROE, Kyle, D. MUEHLEMANN, Michael, M. BARTA, Thomas, E. BOURNE, Jonathan, William PANDEY, Anjali BOWERS, Simeon	(73) Icahn School of Medicine at Mount Sinai (72) SCHUCHMAN, Edward, H.	
(31) 201662298852 P 201562208054 P	(31) 201762446166 P	
(32) 23.02.2016 21.08.2015		
(33) United States of America United States of America		
(51) A61K 38/38		

21.01.2016	(47) 12.07.2023	(73) Agilent Technologies, Inc.
(22) 15.07.2015	(87) IB2016052860	(72) LONG, David
(54) ENGINEERED CELLS FOR ADOPTIVE CELL THERAPY	24.11.2016	ZHAO, Limian
(73) Juno Therapeutics, Inc.	(22) 17.05.2016	RICHTER, Bruce
(72) MOHLER, Kendall M.	(54) LIQUID PHARMACEUTICAL FORMULATIONS OF TETRAIODOTHYRONINE	LUCAS, Derick
LEVITSKY, Hyam I.	(73) Altergon S.a.	(31) 201615269647
(31) 201462025006 P	(72) SCHIRALDI, Chiara	(32) 19.09.2016
(32) 15.07.2014	DE ROSA, Mario	(33) United States of America
(33) United States of America	(31) UB20150707	<hr/>
(51) A61K 39/395	(32) 19.05.2015	(51) A61K 47/68
C07K 14/54	(33) Italy	A61P 35/00
(11) EP3883606	<hr/>	(11) EP3760233
(21) EP19867085.3	(51) A61K 47/10	(21) EP20733678.5
(47) 12.07.2023	A61K 47/08	(47) 12.07.2023
(87) IB2019058098	A61K 47/44	(87) CN2020074987
02.04.2020	A61K 47/46	26.11.2020
(22) 24.09.2019	A61K 9/00	(22) 13.02.2020
(54) SAFE AND EFFECTIVE METHOD OF TREATING ULCERATIVE COLITIS WITH ANTI-IL12/IL23 ANTIBODY	A61P 17/04	(54) ONE-POT PREPARATION PROCESS FOR ANTIBODY DRUG CONJUGATE INTERMEDIATE
(73) Janssen Biotech, Inc.	(11) EP2908860	(73) MabPlex International Co., Ltd.
(72) JOHANNIS, Jewel	(21) EP13784014.6	(72) MAO, Xinjie
STRAUSS, Richard	(47) 12.07.2023	LAN, Mingchao
O'BRIEN, Christopher	(87) NL2013050735	YU, Zhaoxing
ZHANG, Hongyan	24.04.2014	LI, Xinfang
SHIELDS-TUTTLE, Kimberly	(22) 18.10.2013	(31) 201910916242
MARANO, Colleen	(54) ENHANCED NAIL PENETRATING COMPOSITION	201910916470
LI, Katherine	(73) Dutch Renewable Energy B.V.	201910916198
ADEDOKUN, Omoniyi	(72) PELLIKAAN, Hubert Clemens	201910916508
(31) 201962895774 P	(31) 2009669	201910916510
201862769818 P	(32) 19.10.2012	201910916200
201862735501 P	(33) Netherlands	201910420868
(32) 04.09.2019	<hr/>	(32) 26.09.2019
20.11.2018	(51) A61K 47/34	26.09.2019
24.09.2018	A61K 9/51	26.09.2019
(33) United States of America	A61K 47/14	26.09.2019
United States of America	C08L 77/00	26.09.2019
United States of America	(11) EP3517131	26.09.2019
<hr/>	(21) EP16916752.5	20.05.2019
(51) A61K 45/06	(47) 12.07.2023	(33) China
A61K 31/5377	(87) JP2016077744	China
A61K 31/542	29.03.2018	China
A61K 31/5575	(22) 20.09.2016	China
A61K 9/00	(54) MEDICINAL AGENT-CONTAINING MOLECULAR ASSEMBLY WHICH USES AMPHIPHILIC BLOCK POLYMER	China
A61K 47/32	(73) Kyoto University	China
A61K 47/34	Shimadzu Corporation	<hr/>
A61P 27/06	(72) SATO, Takayuki	(51) A61K 47/68
(11) EP3209331	OZEKI, Eiichi	C07D 249/12
(21) EP15791036.5	HARA, Isao	C07K 1/13
(47) 12.07.2023	KIMURA, Shunsaku	C07K 1/107
(87) IB2015057963	<hr/>	C07C 233/52
28.04.2016	(51) A61K 47/40	C07C 247/10
(22) 16.10.2015	B01J 20/10	C07C 247/12
(54) OPHTHALMIC SOLUTION	B01D 15/38	C07C 271/22
(73) Sentiss Pharma Private Limited	B01J 20/22	C07D 307/58
(72) SHAH, Mandar V.	B01J 20/28	A61P 35/00
BAHRI, Deepak	B01J 20/289	A61K 47/69
(31) 2985DE2014	B01J 20/32	A61P 29/00
(32) 20.10.2014	G01N 1/40	C07C 233/48
(33) India	G01N 30/60	(11) EP3630732
<hr/>	(11) EP3515500	(21) EP18805779.8
(51) A61K 47/10	(21) EP17851220.8	(47) 12.07.2023
A61K 9/00	(47) 12.07.2023	(87) US2018034535
A61K 9/48	(87) US2017040437	29.11.2018
A61K 9/08	22.03.2018	(22) 25.05.2018
A61K 9/14	(22) 30.06.2017	(54) METHOD AND MOLECULES
A61K 31/198	(54) METHOD FOR REDUCING MATRIX EFFECTS IN ANALYTICAL SAMPLE	(73) The Regents of the University of California
(11) EP3297677		Medimmune, LLC
(21) EP16733691.6		

(72) CHRISTIE, Ronald James GAO, Changshou ST. AMANT, Andre Henri DE ALANIZ, Javier Read	(21) EP19729123.0 (47) 12.07.2023 (87) US2019032986 21.11.2019	(54) DEODORIZATION DEVICE (73) Kaltech Corporation (72) HARAZONO, Toyohiro SOMEI, Junichi
(31) 201762511415 P (32) 26.05.2017 (33) United States of America	(22) 17.05.2019 (54) MICROSPHERES CONTAINING RADIOACTIVE ISOTOPES AND OTHER MARKERS, AND ASSOCIATED METHODS	(31) 2019073968 (32) 09.04.2019 (33) Japan
(51) A61K 48/00 (11) EP3515504 (21) EP17777140.9 (47) 12.07.2023 (87) US2017051964 29.03.2018 (22) 18.09.2017 (54) CANINE ADENOVIRUS VECTORS (73) Boehringer Ingelheim Vetmedica GmbH (72) REHMET, Kristina KOUKUNTLA, Ramesh MUNDT, Alice GALLEI, Andreas MANDELL, Robert Barry VAUGHN, Eric Martin	(73) Bard Peripheral Vascular, Inc. (72) DROBNIK, Christopher D. CRUSE, Terry (31) 201862673628 P 201862673632 P (32) 18.05.2018 18.05.2018 (33) United States of America United States of America	(51) A61L 15/18 A61L 15/28 C08L 101/00 A61K 47/36 A61L 15/32 A61L 15/44 (11) EP3528856 (21) EP17862605.7 (47) 12.07.2023 (87) US2017057134 26.04.2018 (22) 18.10.2017 (54) COMPOSITE MATERIALS CONTAINING STRUCTURAL POLYMERS AND PHOTOREACTIVE NITRIC OXIDE RELEASING AGENTS AND USES THEREOF FOR WOUND DRESSINGS
(31) 201662397139 P (32) 20.09.2016 (33) United States of America	(31) 201862673628 P 201862673632 P (32) 18.05.2018 18.05.2018 (33) United States of America United States of America	(73) Marquette University (72) TRAN, Chieu D. (31) 201662409617 P (32) 18.10.2016 (33) United States of America
(51) A61K 48/00 A61K 31/7105 A61K 31/711 A61K 31/713 A61P 1/00 A61P 1/18 A61P 11/06 A61P 29/00 (11) EP3552632 (21) EP17879130.7 (47) 12.07.2023 (87) JP2017044090 14.06.2018 (22) 07.12.2017 (54) MEDICINAL COMPOSITION FOR TREATING AND PREVENTING INFLAMMATORY BOWEL DISEASE (73) Stelic Institute & Co., Inc. (72) YONEYAMA Hiroyuki (31) 201662431014 P (32) 07.12.2016 (33) United States of America	(51) A61L 2/18 A61L 2/22 A61L 9/14 A61L 2/03 F24F 3/16 F24F 6/14 F24F 8/133 F24F 8/15 F24F 11/30 F24F 110/10 F24F 110/20 (11) EP3954398 (21) EP21150626.6 (47) 12.07.2023 (22) 07.01.2021 (54) METHOD AND SYSTEM FOR DISINFECTING AIR (73) oji Europe GmbH (72) Singh, Gundeep Boecker, Dirk Bone-Winkel, Thomas (31) 20194456 20190355 (32) 03.09.2020 10.08.2020 (33) European Patent Office (EPO) European Patent Office (EPO)	(22) 18.10.2017 (54) COMPOSITE MATERIALS CONTAINING STRUCTURAL POLYMERS AND PHOTOREACTIVE NITRIC OXIDE RELEASING AGENTS AND USES THEREOF FOR WOUND DRESSINGS (73) Marquette University (72) TRAN, Chieu D. (31) 201662409617 P (32) 18.10.2016 (33) United States of America
(51) A61K 48/00 A61K 31/7105 A61K 31/711 A61K 31/713 A61P 1/00 A61P 1/18 A61P 11/06 A61P 29/00 (11) EP3552632 (21) EP17879130.7 (47) 12.07.2023 (87) JP2017044090 14.06.2018 (22) 07.12.2017 (54) MEDICINAL COMPOSITION FOR TREATING AND PREVENTING INFLAMMATORY BOWEL DISEASE (73) Stelic Institute & Co., Inc. (72) YONEYAMA Hiroyuki (31) 201662431014 P (32) 07.12.2016 (33) United States of America	(51) A61L 2/18 A61L 2/22 A61L 9/14 A61L 2/03 F24F 3/16 F24F 6/14 F24F 8/133 F24F 8/15 F24F 11/30 F24F 110/10 F24F 110/20 (11) EP3954398 (21) EP21150626.6 (47) 12.07.2023 (22) 07.01.2021 (54) METHOD AND SYSTEM FOR DISINFECTING AIR (73) oji Europe GmbH (72) Singh, Gundeep Boecker, Dirk Bone-Winkel, Thomas (31) 20194456 20190355 (32) 03.09.2020 10.08.2020 (33) European Patent Office (EPO) European Patent Office (EPO)	(51) A61L 15/42 A61L 15/26 (11) EP3763397 (21) EP20194225.7 (47) 12.07.2023 (22) 30.08.2013 (54) HEMOSTATIC FOAM (73) Stryker European Operations Holdings LLC (72) DE GRAAF, Robbert Arnold CHANDRASHEKHAR-BHAT, Bhushan (31) 2009400 (32) 31.08.2012 (33) Netherlands
(51) A61K 51/12 A61M 5/14 A61M 5/142 A61M 5/145 A61M 5/168 A61M 5/178 A61M 5/24 A61M 25/00 A61N 5/10 G16H 40/63 G16H 40/20 G16H 20/40 A61M 25/01 A61M 39/10 G21G 1/06 G21G 4/08 G21H 5/02 A61M 5/20 A61B 18/00 A61M 5/315 (11) EP3793620	(31) 20194456 20190355 (32) 03.09.2020 10.08.2020 (33) European Patent Office (EPO) European Patent Office (EPO)	(51) A61L 17/00 A61L 17/10 (11) EP3873546 (21) EP19801178.5 (47) 12.07.2023 (87) US2019057441 07.05.2020 (22) 22.10.2019 (54) METHODS OF MANUFACTURING MESH SUTURES FROM POLY-4- HYDROXYBUTYRATE AND COPOLYMERS THEREOF (73) Tepha, Inc. (72) MARTIN, David P. LIMEM, Skander SHAH, Bhavin WILLIAMS, Simon F. RIZK, Said GANATRA, Amit (31) 201816173748 (32) 29.10.2018 (33) United States of America
(51) A61K 51/12 A61M 5/14 A61M 5/142 A61M 5/145 A61M 5/168 A61M 5/178 A61M 5/24 A61M 25/00 A61N 5/10 G16H 40/63 G16H 40/20 G16H 20/40 A61M 25/01 A61M 39/10 G21G 1/06 G21G 4/08 G21H 5/02 A61M 5/20 A61B 18/00 A61M 5/315 (11) EP3793620	(51) A61L 9/20 (11) EP3785736 (21) EP20192422.2 (47) 12.07.2023 (22) 24.08.2020 (54) PHOTOCATALYTIC DEVICE AND PHOTOCATALYTIC UNIT (73) Kaltech Corporation (72) UEDA, Hirohiko SOMEI, Junichi HARAZONO, Toyohiro HATAZAWA, Kenji (31) 2019156323 (32) 29.08.2019 (33) Japan	(51) A61L 17/00 A61L 17/10 (11) EP3873546 (21) EP19801178.5 (47) 12.07.2023 (87) US2019057441 07.05.2020 (22) 22.10.2019 (54) METHODS OF MANUFACTURING MESH SUTURES FROM POLY-4- HYDROXYBUTYRATE AND COPOLYMERS THEREOF (73) Tepha, Inc. (72) MARTIN, David P. LIMEM, Skander SHAH, Bhavin WILLIAMS, Simon F. RIZK, Said GANATRA, Amit (31) 201816173748 (32) 29.10.2018 (33) United States of America
(51) A61K 51/12 A61M 5/14 A61M 5/142 A61M 5/145 A61M 5/168 A61M 5/178 A61M 5/24 A61M 25/00 A61N 5/10 G16H 40/63 G16H 40/20 G16H 20/40 A61M 25/01 A61M 39/10 G21G 1/06 G21G 4/08 G21H 5/02 A61M 5/20 A61B 18/00 A61M 5/315 (11) EP3793620	(51) A61L 9/20 (11) EP3785736 (21) EP20192422.2 (47) 12.07.2023 (22) 24.08.2020 (54) PHOTOCATALYTIC DEVICE AND PHOTOCATALYTIC UNIT (73) Kaltech Corporation (72) UEDA, Hirohiko SOMEI, Junichi HARAZONO, Toyohiro HATAZAWA, Kenji (31) 2019156323 (32) 29.08.2019 (33) Japan	(51) A61L 27/06 A61L 24/04 A61L 24/06

A61L 24/00	USE AS A PRIMER FOR ADHESION IMPROVEMENT	(54) FLOWABLE ACELLULAR TISSUE MATRIX PRODUCTS AND METHODS OF PRODUCTION
(11) EP3636290	(73) Biomedical Bonding AB	(73) LifeCell Corporation
(21) EP19205687.7	(72) GARCIA GALLEGRO, Sandra	(72) POMERLEAU, Ming, F.
(47) 12.07.2023	ARSENEAULT, Mathieu	XU, Hui
(22) 24.08.2016	MALKOCH, Mikael	MESSINA, Darin
(54) AN ADHESIVE COMPOSITION	GRANSKOG, Viktor	LI, Hui
(73) Coloplast A/S	(31) PCT/EP2017/077350	(31) 201762574678 P
(72) KLEIN, Charlotte	(32) 25.10.2017	(32) 19.10.2017
OLSEN, Henrik	(33) World Intellectual Property Office (WIPO)	(33) United States of America
ISRAELSON, Dorrit Diana	(51) A61L 27/18	(51) A61L 27/60
(31) PA201570544	A61L 27/48	A61L 27/36
(32) 24.08.2015	A61L 27/56	C12N 5/0775
(33) Denmark	(11) EP3746140	B33Y 80/00
(51) A61L 27/14	(21) EP19705651.8	B33Y 70/00
A61L 27/26	(47) 12.07.2023	A61L 27/22
A61F 2/06	(87) US2019015948	A61L 27/38
A61L 27/50	08.08.2019	(11) EP3747478
(11) EP3628013	(22) 31.01.2019	(21) EP18903984.5
(21) EP18844923.5	(54) OSTEOSTIMULATING ELASTOMERIC BONE FILLING COMPOSITIONS	(47) 12.07.2023
(47) 12.07.2023	(73) The Secant Group, LLC	(87) KR2018012430
(87) TR2018050240	(72) ELY, Jared	08.08.2019
14.02.2019	NICHOLSON, Charles Brendan	(22) 19.10.2018
(22) 16.05.2018	GABRIELE, Peter D.	(54) BIOINK COMPOSITION FOR DERMIS REGENERATION SHEET, METHOD FOR MANUFACTURING CUSTOMIZED DERMIS REGENERATION SHEET USING SAME, AND CUSTOMIZED DERMIS REGENERATION SHEET MANUFACTURED USING MANUFACTURING METHOD
(54) A BIOMIMETIC ARTIFICIAL BLOOD VESSEL AND A PRODUCTION METHOD THEREOF	HARRIS, Jeremy J.	(73) Rokit Healthcare Inc.
(73) T. C. Marmara Universitesi	GINN, Brian	(72) YOU, Seok Hwan
T.C. Medipol Universitesi	(31) 201862720296 P	(31) 20180012220
(72) INAN, Ahmet Talat	201862624579 P	(32) 31.01.2018
AYDOGDU, Mehmet Onur	(32) 21.08.2018	(33) Korea (Republic)
CAKMAK, Selami	31.01.2018	(51) A61M 1/00
ALTUN, Esra	(33) United States of America	(11) EP3976128
GUNDUZ, Oguzhan	United States of America	(21) EP20730211.8
EKREN, Nazmi	(51) A61L 27/44	(47) 12.07.2023
OKTAR, Faik Nuzhet	C01F 11/18	(87) EP2020064601
SENGIL, Ahmet Zeki	C08J 3/12	03.12.2020
(31) 201707216	C08J 3/20	(22) 26.05.2020
(32) 16.05.2017	C09C 1/00	(54) SYSTEMS FOR EXTENDING OPERATIONAL TIME OF NEGATIVE PRESSURE WOUND TREATMENT APPARATUSES
(33) Türkiye	C09C 1/02	(73) T.J.Smith and Nephew, Limited
(51) A61L 27/16	C08L 67/04	(72) GOWANS, John, Philip
A61L 27/50	C08L 67/02	MUSGRAVE, Damyn
A61L 27/56	(11) EP3509654	RODRIGUES, Roberto, Damiao, Da, Costa
(11) EP3606568	(21) EP17749500.9	STEWART, Daniel, Lee
(21) EP18722740.0	(47) 12.07.2023	ASKEM, Ben, Alan
(47) 12.07.2023	(87) EP2017070491	KELBIE, William
(87) IL2018050402	15.03.2018	(31) 201907716
11.10.2018	(22) 11.08.2017	(32) 31.05.2019
(22) 04.04.2018	(54) METHOD FOR MANUFACTURING AN IMPLANT USING A CALCIUM SALT-CONTAINING COMPOSITE POWDER HAVING MICROSTRUCTURED PARTICLES	(33) United Kingdom
(54) PROPERTY CHANGING IMPLANT	(73) Karl Leibinger Medizintechnik GmbH & Co. KG	(51) A61M 1/00
(73) SetBone Medical Ltd.	(72) VUCAK, Marijan	A61B 5/00
(72) KAUFMANN, Royi	LUGER, Siegmund	(11) EP3740257
KAUFMANN, Nimrod	REINAUER, Frank	(21) EP19703501.7
(31) 201762530400 P	(31) 16187906	(47) 12.07.2023
201762481688 P	(32) 08.09.2016	(87) US2019013634
(32) 10.07.2017	(33) European Patent Office (EPO)	18.07.2019
05.04.2017	(51) A61L 27/48	(22) 15.01.2019
(33) United States of America	(11) EP3697462	
United States of America	(21) EP18800396.6	
(51) A61L 27/18	(47) 12.07.2023	
(11) EP3700590	(87) US2018056630	
(21) EP18789178.3	25.04.2019	
(47) 12.07.2023	(22) 19.10.2018	
(87) EP2018079289		
02.05.2019		
(22) 25.10.2018		
(54) A COMPOSITION COMPRISING THIOL, ALKENE AND PHOSPHONIC ACID CONTAINING COMPOUNDS FOR		

(54) WOUND SENSOR AND DIAGNOSTICS SYSTEM FOR WOUND THERAPY APPLICATIONS	(47) 12.07.2023 (87) US2017013248 20.07.2017	(33) European Patent Office (EPO)
(73) 3M Innovative Properties Company	(22) 12.01.2017	(51) A61M 15/00 (11) EP3582838
(72) COULTHARD, Richard Daniel, John LOCKE, Christopher, Brian LONG, Justin, Alexander	(54) PREDICTIVE CONTROL MODEL FOR THE ARTIFICIAL PANCREAS USING PAST PREDICTIONS	(21) EP18702232.2 (47) 12.07.2023 (87) EP2018051937 23.08.2018
(31) 201862617487 P	(73) The Regents of the University of California	(22) 26.01.2018
(32) 15.01.2018	President and Fellows of Harvard College	(54) INHALERS AND RELATED METHODS
(33) United States of America	(72) DASSAU, Eyal LAGUNA SANZ, Alejandro DOYLE, Francis, J., III	(73) Norton (Waterford) Limited (72) WALSH, Declan PRENDERGAST, Paul BUCK, Daniel
(51) A61M 1/16 A61M 1/34 A61M 1/36	(31) 201662277788 P	(31) 201702407 (32) 14.02.2017 (33) United Kingdom
(11) EP3659641	(32) 12.01.2016	(51) A61M 15/00 A61K 9/00
(21) EP18837527.3	(33) United States of America	(11) EP3600504 (21) EP18776448.5 (47) 12.07.2023 (87) US2018024882 04.10.2018
(47) 12.07.2023	(51) A61M 5/20 A61M 5/315	(22) 28.03.2018
(87) JP2018027831 31.01.2019	(11) EP2583711 (21) EP12190526.9 (47) 12.07.2023 (22) 23.03.2011	(54) DEVICE FOR DELIVERING DRY POWDER MEDICAMENTS
(22) 25.07.2018	(54) Medicament delivery device comprising feedback signalling means	(73) Concentrx Pharmaceuticals, Inc. (72) ALEXANDER, William James MOTT, Gilbert S. Jr. RICHARDSON, Eric C.
(54) BLOOD PURIFYING DEVICE, METHOD FOR OBTAINING TRANSMEMBRANE PRESSURE DIFFERENCE ACROSS BLOOD PURIFICATION MEMBRANE, AND METHOD, DEVICE AND PROGRAM FOR DETERMINING SAME	(73) SHL Medical AG (72) Daniel, Mattias (31) 1050307 319453 P	(31) 201762477506 P (32) 28.03.2017 (33) United States of America
(73) Asahi Kasei Medical Co., Ltd.	(32) 31.03.2010 31.03.2010	(51) A61M 15/06 A24F 47/00 A61M 11/04
(72) SASAKI, Kohsuke TAOKA, Masahiro MASAOKA, Katsunori	(33) Sweden United States of America	(11) EP3615117 (21) EP18721014.1 (47) 12.07.2023 (87) EP2018060503 01.11.2018
(31) 2018081667 2017145863	(51) A61M 5/315 (11) EP3848074 (21) EP18932964.2 (47) 12.07.2023	(22) 24.04.2018
(32) 20.04.2018 27.07.2017	(87) CN2018104607 12.03.2020	(54) AEROSOL DELIVERY SYSTEM
(33) Japan Japan	(22) 07.09.2018	(73) Imperial Tobacco Limited (72) JONES, David SHENTON, Edward Ross LORD, Chris SUDLOW, Tom
(51) A61M 1/38 A61M 1/34	(54) PLUNGING APPARATUS FOR SYRINGE	(31) 201706593 (32) 25.04.2017 (33) United Kingdom
(11) EP3954407	(73) C C Biotechnology Corporation	(51) A61M 15/06 A61M 15/00 A24F 42/20 A24F 42/60
(21) EP21198088.3	(72) PATIL, Satyashodhan YEH, Chin-Min	(11) EP3934721 (21) EP20710297.1 (47) 12.07.2023 (87) IB2020051761 10.09.2020
(47) 12.07.2023	(51) A61M 5/315 A61M 5/20 A61M 5/24 A61M 5/31	(22) 02.03.2020
(22) 21.05.2019	(11) EP3223888 (21) EP15813702.6 (47) 12.07.2023	(54) PIERCING DEVICE FOR INHALER ARTICLE
(54) SYSTEMS AND METHODS FOR OPTIMIZATION OF PLASMA COLLECTION VOLUMES	(87) EP2015077517 02.06.2016 (22) 24.11.2015	(73) Philip Morris Products, S.A. (72) SPADARO, Fabiana ZUBER, Gerard CAMPITELLI, Gennaro DAYIOGLU, Onur
(73) Fenwal, Inc.	(54) DOSE SETTING MECHANISM AND DRUG DELIVERY DEVICE WITH RATCHET MECHANISM	
(72) Planas, Samantha M. Patel, Amit J. Boggs, Daniel R. Min, Kyungyoon Watts, Walter T.	(73) SANOFI (72) MARSH, William Geoffrey Arthur AVERY, Richard James Vincent PLUMPTRE, Dave Aubrey STEEL, Samuel Keir MORRIS, Anthony Paul JONES, Matthew Meredith VEASEY, Robert Frederick	
(31) 201962846400 P 201862752480 P 201862674144 P	(31) 14306863 (32) 24.11.2014	
(32) 10.05.2019 30.10.2018 21.05.2018		
(33) United States of America United States of America United States of America		
(51) A61M 5/142 A61P 3/10 G01N 33/50 G01N 33/53 G01N 33/66 G16H 50/50 G16H 50/30		
(11) EP3402552		
(21) EP17738968.1		

(31) 19160888	(73) CoapTech, Inc.	(54) METHOD OF DETECTING ERRORS
(32) 05.03.2019	(72) GOLDWASSER, Elisabeth	IN THE CONNECTIONS IN A
(33) European Patent Office (EPO)	CAROLAN, Howard	HUMIDIFICATION SYSTEM
(51) A61M 16/00	TROPELLO, Steven P.	(73) Fisher & Paykel Healthcare Limited
(11) EP4026577	(31) 201862728450 P	(72) LO, Ho Shing
(21) EP21209030.2	201862679282 P	SEEKUP, Peter Alan
(47) 12.07.2023	(32) 07.09.2018	LIU, Po-Yen
(22) 18.11.2021	01.06.2018	SMITH, Daniel John
(54) INSTALLATION FOR THE SUPPLY OF	(33) United States of America	TENG, Ivan Chih-Fan
THERAPEUTIC GAS TO A PATIENT	United States of America	(31) 201662406720 P
WITH CONSIDERATION OF MASK	(51) A61M 16/16	(32) 11.10.2016
LEAKAGE	A61M 13/00	(33) United States of America
(73) L'Air Liquide, société anonyme pour	(11) EP3773849	(51) A61M 21/00
l'Étude et l'Exploitation des procédés	(21) EP19776403.8	G02C 5/00
Georges Claude	(47) 12.07.2023	G02C 7/10
(72) BOULANGER, Thierry	(87) NZ2019050032	(11) EP3454930
(31) 2100102	03.10.2019	(21) EP17795741.2
(32) 07.01.2021	(22) 26.03.2019	(47) 12.07.2023
(33) France	(54) HUMIDIFICATION CHAMBER AND	(87) IL2017050516
(51) A61M 16/00	APPARATUS	16.11.2017
A61M 16/20	(73) Fisher & Paykel Healthcare Limited	(22) 10.05.2017
A61M 16/10	(72) BARNES, Thomas Heinrich	(54) ADVANCED LIQUID CRYSTAL FILM
(11) EP3701989	SPENCE, Callum James Thomas	FOR ANTI MOTION SICKNESS AND
(21) EP20158630.2	BOYES, Richard John	METHODS THEREOF
(47) 12.07.2023	GELL, Zane Paul	(73) Gauzy Ltd.
(22) 20.02.2020	WARNER, Zach Jonathan	(72) BEN EZRA, Omry
(54) SYSTEM FOR ADMINISTERING	MCDERMOTT, Gareth Thomas	PESO, Eyal
A GASEOUS MIXTURE FOR THE	DEVA, Karan	LOFER, Adrian
TREATMENT OF CHRONIC PAIN	BAUMANN, Monika	(31) 201662333841 P
(73) L'AIR LIQUIDE, SOCIETE ANONYME	VERDOOLD, Vincent	(32) 10.05.2016
POUR L'ETUDE ET L'EXPLOITATION	IP, Bernard Tsz Lun	(33) United States of America
DES PROCEDES GEORGES CLAUDE	GLAVES, Rachael	(51) A61M 25/01
(72) THOUVIER, Stéphane	FISCHER, Christian Francis	A61M 25/10
LECOURT, Laurent	(31) 201862647966 P	A61M 25/00
(31) 1902001	(32) 26.03.2018	(11) EP3925655
(32) 27.02.2019	(33) United States of America	(21) EP21189613.9
(33) France	(51) A61M 16/16	(47) 12.07.2023
(51) A61M 16/04	A61M 13/00	(22) 31.12.2013
A61B 1/267	G01N 7/00	(54) CATHETER WITH MARKINGS TO
A61B 1/00	(11) EP3791914	FACILITATE ALIGNMENT
A61B 1/05	(21) EP20186340.4	(73) Clearstream Technologies Limited
(11) EP4114488	(47) 12.07.2023	(72) Beasley, Jim C.
(21) EP21709980.3	(22) 16.04.2015	Klocke, Stephanie
(47) 12.07.2023	(54) SYSTEMS FOR DELIVERING GAS TO	Randall, Scott L.
(87) EP2021055460	A PATIENT	(31) 201261747416 P
10.09.2021	(73) Fisher & Paykel Healthcare Limited	(32) 31.12.2012
(22) 04.03.2021	(72) TESSY, Lina	(33) United States of America
(54) AN AIRWAY MANAGEMENT DEVICE	SURENDRA, Wisnu Arya	(51) A61M 25/01
(73) Alfen Medical Devices Development Ltd.	GHALIB, Ali Ghalib Abdul Rahman	A61M 25/10
(72) DEL SOCORRO FONTANILLA DAZA,	CHAN, Jessica Kristen	A61M 25/00
Zoraida	BAUMANN, Monika	A61M 25/02
(31) 202003191	STREVENS, Joseph Patrick Walter	A61M 25/06
(32) 05.03.2020	(31) 201462066254 P	(11) EP3777947
(33) United Kingdom	201461980442 P	(21) EP20172795.5
(51) A61M 16/04	(32) 20.10.2014	(47) 12.07.2023
A61F 2/20	16.04.2014	(22) 04.05.2020
A61M 5/32	(33) United States of America	(54) APPARATUS FOR ADVANCING
A61M 16/00	United States of America	CATHETERS THROUGH A LUMEN
A61M 29/00	(51) A61M 16/16	(73) VasolInnovations, Inc.
(11) EP3801720	A61M 16/00	(72) SARDESAL, Rajendra Gurudas
(21) EP19811977.8	A61M 16/10	PATEL, Tejas Madhusudan
(47) 12.07.2023	(11) EP3525862	PANCHOLY, Samir Bipin
(87) US2019034943	(21) EP17859643.3	(31) 201916721909
05.12.2019	(47) 12.07.2023	201916701966
(22) 31.05.2019	(87) NZ2017050132	201962886349 P
(54) SYSTEMS, APPARATUS, AND	19.04.2018	(32) 19.12.2019
METHODS FOR PERFORMING A	(22) 11.10.2017	03.12.2019
PERCUTANEOUS TRACHEOSTOMY		14.08.2019

(33) United States of America United States of America United States of America	PISTORIO, Bradford LIU, Shu	(33) Germany
(51) A61M 25/09	(31) 2016156330	(51) A61M 60/139
(11) EP4051361	(32) 09.08.2016	A61M 60/216
(21) EP20834087.7	(33) Japan	A61M 60/232
(47) 12.07.2023	(51) A61M 39/10	A61M 60/419
(87) US2020063927	A61M 39/12	A61M 60/50
24.06.2021	(11) EP3153208	A61M 60/422
(22) 09.12.2020	(21) EP16199087.4	A61M 60/13
(54) GUIDEWIRES FOR MEDICAL DEVICES	(47) 12.07.2023	A61M 60/221
(73) STRYKER CORPORATION	(22) 19.07.2011	A61M 60/82
Stryker European Operations Limited	(54) LUER CONNECTOR	A61M 60/824
(72) GERBERDING, Brent	(73) Becton, Dickinson and Company	A61M 60/825
CHEN, Hancun	(72) Nielsen, Cameron James	A61M 60/135
LEYNOV, Aleksandr	McKinnon, Austin Jason	A61M 60/237
(31) 201916716280	Carter, Jeffery Lee	(11) EP3912673
(32) 16.12.2019	Peterson, Bart David	(21) EP21181683.0
(33) United States of America	(31) 201113185146	(47) 12.07.2023
(51) A61M 25/10	365406 P	(22) 21.03.2017
A61M 25/00	(32) 18.07.2011	(54) BLOOD PUMP
(11) EP3806945	19.07.2010	(73) Abiomed Europe GmbH
(21) EP19734624.0	(33) United States of America	(72) SIESS, Thorsten
(47) 12.07.2023	United States of America	SPANIER, Gerd
(87) US2019036982	(51) A61M 60/117	WANG, Jimpo
19.12.2019	A61M 60/178	(31) 16161941
(22) 13.06.2019	A61M 60/183	(32) 23.03.2016
(54) BALLOON CATHETER ASSEMBLY	A61M 60/216	(33) European Patent Office (EPO)
FOR INSERTION AND POSITIONING	A61M 60/531	(51) A61N 1/00
THERAPEUTIC DEVICES WITHIN A	A61M 60/554	A61N 1/32
VASCULAR SYSTEM	A61M 60/857	A61N 1/36
(73) Stryker Corporation	A61M 60/861	(11) EP3484576
Stryker European Operations Holdings	(11) EP3634525	(21) EP17828398.2
LLC	(21) EP18729394.9	(47) 12.07.2023
(72) MURPHY, Murtagh, M.	(47) 12.07.2023	(87) US2017041743
BOLHOUSE, Mariel, E.	(87) EP2018064617	18.01.2018
BROCHU, Alice, Bradbury Welsh	13.12.2018	(22) 12.07.2017
MOCK, Thomas, J.	(22) 04.06.2018	(54) APPARATUS FOR AUTOMATED
MARCEAU, David, P.	(54) HEART SUPPORT SYSTEM	COMPENSATION OF
(31) 201862685148 P	(73) Rheinisch-Westfälische Technische	TRANSCUTANEOUS ELECTRICAL
(32) 14.06.2018	Hochschule (RWTH) Aachen	NERVE STIMULATION FOR
(33) United States of America	(72) GESENHUES, Jonas	TEMPORAL FLUCTUATIONS SUCH AS
(51) A61M 25/16	ABEL, Dirk	CIRCADIAN RHYTHMS
A61B 17/12	(31) 102017112437	(73) NeuroMetrix, Inc.
(11) EP3302676	(32) 06.06.2017	(72) GOZANI, Shai N.
(21) EP16804263.8	(33) Germany	KONG, Xuan
(47) 12.07.2023	(51) A61M 60/122	(31) 201662361698 P
(87) US2016035106	B22F 3/105	(32) 13.07.2016
08.12.2016	C04B 35/56	(33) United States of America
(22) 31.05.2016	C04B 35/645	(51) A61N 1/02
(54) CATHETER CIRCUIT	C22C 29/06	A61N 1/05
(73) Microvention, Inc.	C22C 29/08	A61N 1/36
(72) BOWMAN, Heath	(11) EP3762165	(11) EP4000680
(31) 201562168525 P	(21) EP19719415.2	(21) EP21208047.7
(32) 29.05.2015	(47) 12.07.2023	(47) 12.07.2023
(33) United States of America	(87) DE2019100210	(22) 16.12.2014
(51) A61M 37/00	12.09.2019	(54) SYSTEMS FOR EMPLOYING A DUTY
(11) EP3496803	(22) 08.03.2019	CYCLE IN ELECTRICAL STIMULATION
(21) EP17745880.9	(54) PROCESS FOR PRODUCTION OF	OF PATIENT TISSUE
(47) 12.07.2023	COMPOSITE MATERIALS BASED	(73) Boston Scientific Neuromodulation
(87) JP2017022764	ON TUNGSTEN CARBIDE WITH	Corporation
15.02.2018	PRECIOUS METAL BINDERS	(72) RANU, Emarit A.s.
(22) 14.06.2017	(73) HNP Mikrosysteme GmbH	(31) 201361918219 P
(54) COSMETIC DEVICE FOR IMPROVED	Universität Rostock	(32) 19.12.2013
TRANSDERMAL PERMEATION AND	(72) BURKEL, Eberhard	(33) United States of America
MANUFACTURING METHOD THEREOF	BODNAR, Wiktor	(51) A61N 1/04
(73) L'OREAL	DAMERAU, Carsten	A61N 1/08
(72) PARK, Woo Ram	(31) 102018105489	A61N 1/36
	(32) 09.03.2018	A61N 1/40
		G16H 20/40



G16H 40/63	DEMIRYUREK, Yasir	(72) SHAH, Jignesh
G16H 50/50	ZAHN, Jeffrey	(31) 201361801091 P
(11) EP3840823	(31) 201962800781 P	(32) 15.03.2013
(21) EP19797802.6	(32) 04.02.2019	(33) United States of America
(47) 12.07.2023	(33) United States of America	<hr/>
(87) IB2019058709	(51) A61N 1/05	(51) A61N 1/05
23.04.2020	A61N 1/36	A61N 1/365
(22) 11.10.2019	(11) EP3684458	A61N 1/368
(54) GENERATING TUMOR TREATING	(21) EP18765132.8	A61N 1/378
FIELDS (TTFIELDS) WITH HIGH	(47) 12.07.2023	(11) EP3801232
UNIFORMITY THROUGHOUT THE	(87) EP2018074450	(21) EP19816154.9
BRAIN	28.03.2019	(47) 12.07.2023
(73) Novocure GmbH	(22) 11.09.2018	(87) US2019035249
(72) YESHARIM, Ofir	(54) RETINA IMPLANT	12.12.2019
NAVEH, Ariel	(73) Technische Universität Hamburg-Harburg	(22) 03.06.2019
BOMZON, Zeev	(72) LUJAN VILLARREAL, Diego	(54) SYSTEMS FOR TREATING
(31) 201862745689 P	SCHRÖDER, Dietmar	BRADYARRHYTHMIAS,
(32) 15.10.2018	KRAUTSCHNEIDER, Wolfgang	TACHYARRHYTHMIAS AND HEART
(33) United States of America	(31) 100467	FAILURE
<hr/>	(32) 22.09.2017	(73) Satz, Roseanne
(51) A61N 1/04	(33) Luxembourg	Bockeria, Olga
A61N 1/20	(51) A61N 1/05	(72) BOCKERIA, Olga
(11) EP3965866	A61N 1/36	(31) 201862679958 P
(21) EP21728901.6	(11) EP3969100	(32) 03.06.2018
(47) 12.07.2023	(21) EP20726109.0	(33) United States of America
(87) EP2021064119	(47) 12.07.2023	<hr/>
02.12.2021	(87) EP2020063564	(51) A61N 1/05
(22) 26.05.2021	19.11.2020	A61N 1/368
(54) ELECTROPHYSIOLOGY SYSTEM	(22) 14.05.2020	A61N 1/372
(73) Gálvez Gámiz, Manuel	(54) SYSTEM FOR CONTROL OF	(11) EP4091663
(72) Gálvez Gámiz, Manuel	AUTONOMIC FUNCTION	(21) EP22167396.5
(31) 20382451	(73) UTI Limited Partnership	(47) 12.07.2023
(32) 27.05.2020	Ecole Polytechnique Fédérale de	(22) 08.04.2022
(33) European Patent Office (EPO)	Lausanne EPFL-TTO	(54) IMPROVED IMPLANT-TO-IMPLANT
<hr/>	(72) PHILLIPS, Aaron	COMMUNICATION FOR USE WITH
(51) A61N 1/04	SQUAIR, Jordan	IMPLANTABLE MEDICAL DEVICES
A61N 1/32	COURTINE, Grégoire	(73) Pacesetter, Inc.
A61N 1/36	(31) 19174556	(72) SISON, Shiloh
C12N 13/00	(32) 15.05.2019	CHEN, Xi Lin
C12M 1/42	(33) European Patent Office (EPO)	XIN, Xiyao
(11) EP4011436	(51) A61N 1/05	HUANG, Xin
(21) EP20212860.9	A61N 1/36	(31) 202217684969
(47) 12.07.2023	(11) EP3838330	202163191854 P
(22) 09.12.2020	(21) EP20212783.3	(32) 02.03.2022
(54) PULSED ELECTRIC FIELD	(47) 12.07.2023	21.05.2021
TREATMENT OF BIOLOGICAL CELLS	(22) 09.12.2020	(33) United States of America
(73) Bühler AG	(54) IMPROVED ECAP RECORDING	United States of America
(72) BUCHMANN, Leandro	COCHLEA IMPLANT SYSTEM	<hr/>
<hr/>	(73) Oticon Medical A/S	(51) A61N 1/05
(51) A61N 1/05	(72) MOLAE, Behnam	A61N 1/372
A61N 1/32	SEGOVIA MARTINEZ, Manuel	A61N 1/375
C12M 1/42	(31) 201916721635	(11) EP3866912
C12N 15/87	(32) 19.12.2019	(21) EP19797905.7
A61N 1/30	(33) United States of America	(47) 12.07.2023
A61K 48/00	(51) A61N 1/05	(87) US2019056095
(11) EP3880295	A61N 1/36	23.04.2020
(21) EP20709416.0	A61B 18/14	(22) 14.10.2019
(47) 12.07.2023	A61B 18/12	(54) HIS BUNDLE LEAD WITH EXTENSIBLE
(87) US2020016555	A61B 8/00	ELECTRODE AND REPOSITIONING
13.08.2020	A61B 90/00	FEATURES
(22) 04.02.2020	A61B 18/00	(73) Cardiac Pacemakers, Inc.
(54) DEVICE FOR TISSUE	(11) EP3932470	(72) MILLER, Matthew J.
ELECTROTRANSFER USING A	(21) EP21191658.0	FOSTER, Arthur J.
MICROELECTRODE	(47) 12.07.2023	(31) 201862746195 P
(73) Rutgers, the State University of New	(22) 14.03.2014	(32) 16.10.2018
Jersey	(54) CONTROLLED NEUROMODULATION	(33) United States of America
(72) LIN, Hao	SYSTEMS	<hr/>
LITTLECREEK, Sunshine	(73) Medtronic Ardian Luxembourg S.à.r.l.	(51) A61N 1/32
SHREIBER, David		A61B 90/00
YU, Miao		A61B 5/00
SHAN, Jerry		A61N 1/05
		A61N 1/04

A61B 5/01	(33) United States of America	20.07.2017
A61B 5/0537	(51) A61N 1/36	(22) 11.01.2017
A61B 5/145	A61N 1/05	(54) IMPLANTABLE DEVICE
(11) EP3397339	A61N 1/375	PROGRAMMING MANAGEMENT
(21) EP16849908.5	(11) EP3057652	(73) Boston Scientific Neuromodulation Corporation
(47) 12.07.2023	(21) EP14853504.0	(72) HOWARD, Joshua Dale
(87) IB2016001822	(47) 12.07.2023	PIANCA, Anne M.
06.07.2017	(87) US2014061209	(31) 20166227753 P
(22) 30.12.2016	23.04.2015	(32) 12.01.2016
(54) THERANOSTIC ELECTROPORATOR WITH BIPHASIC WAVE FOR DIAGNOSIS OF PATHOLOGICAL AREAS AND TRANSFER OF THERAPEUTIC MOLECULES	(22) 17.10.2014	(33) United States of America
(73) Biopulse S.r.l.	(54) DEVICES FOR STIMULATING NERVES	(51) A61N 1/39
(72) BALDI, Alfonso	(73) Strul, Bruno	(11) EP3209378
SPUGNINI, Enrico, Pierluigi	Fempulse, LLC	(21) EP15784221.2
(31) UB20159819	Haessler, Alexandra	(47) 12.07.2023
(32) 31.12.2015	(72) HAESSLER, Alexandra	(87) US2015054357
(33) Italy	STRUL, Bruno	28.04.2016
(51) A61N 1/36	(31) 201314101336	(22) 07.10.2015
(11) EP3446746	201314056937	(54) RECOVERY OF CARDIAC EVENT SENSING AND RHYTHM DETECTION FOLLOWING ELECTRICAL STIMULATION PULSE DELIVERY
(21) EP18188897.1	(32) 09.12.2013	(73) Medtronic Inc.
(47) 12.07.2023	17.10.2013	(72) STADLER, Robert W.
(22) 14.08.2018	(33) United States of America	CAO, Jian
(54) ELECTRICAL STIMULATION DEVICE	United States of America	(31) 201414519220
(73) GiMer Medical Co., Ltd.	(51) A61N 1/372	(32) 21.10.2014
(72) CHANG, Chi-Heng	(11) EP3924040	(33) United States of America
PAN, Jian-Hao	(21) EP20707776.9	(51) A61N 1/39
(31) 201710722664	(47) 12.07.2023	A61H 31/00
(32) 22.08.2017	(87) GB2020050337	G16H 40/63
(33) China	20.08.2020	G16H 40/67
(51) A61N 1/36	(22) 13.02.2020	A61N 1/04
A61B 5/08	(54) EMULATION OF	(11) EP3554630
A61B 5/113	ELECTROPHYSIOLOGICAL SIGNALS DERIVED BY STIMULATION OF A BODY	(21) EP17883862.9
(11) EP3359248	(73) Oxford University Innovation Limited	(47) 12.07.2023
(21) EP16781647.9	(72) BROWN, Peter	(87) US2017067442
(47) 12.07.2023	TAN, Huiling	28.06.2018
(87) US2016055366	DENISON, Timothy	(22) 19.12.2017
13.04.2017	DEBARROS, Jean	(54) AUTOMATED EXTERNAL DEFIBRILLATOR DEVICE
(22) 04.10.2016	(31) 201901982	(73) HeartHero, Inc.
(54) STIMULATION SUSPENSION IN RESPONSE TO PATIENT DISCOMFORT OR STATE	(32) 13.02.2019	(72) DOTTER, James
(73) Cyberonics, Inc.	(33) United Kingdom	GILBERT, James, A.
(72) KENKNIGHT, Bruce H.	(51) A61N 1/372	GRANDEY, Krista
LIBBUS, Imad	A61N 1/36	MONTAGUE, Gary
STUBBS, Scott R.	(11) EP3793670	BLANK, Neil, D.
(31) 201562237078 P	(21) EP19803136.1	FARRELL, David, Jon
(32) 05.10.2015	(47) 12.07.2023	(31) 201662436208 P
(33) United States of America	(87) US2019031994	(32) 19.12.2016
(51) A61N 1/36	21.11.2019	(33) United States of America
A61B 17/34	(22) 13.05.2019	(51) A61N 5/06
A61N 1/372	(54) ASSESSMENT SYSTEM WITH WAND DETECTION CABLE SYNCHRONIZING ECG RECORDING	A01G 7/00
A61N 1/05	(73) Livanova USA, Inc.	A01G 9/20
A61F 2/958	(72) AMURTHUR, Badri	F21V 9/00
(11) EP3216488	STUBBS, Scott R.	F21V 9/02
(21) EP16163110.6	MAZAR, Scott	F21K 9/00
(47) 12.07.2023	LIBBUS, Imad	(11) EP3661595
(22) 31.03.2016	KENKNIGHT, Bruce	(21) EP18842373.5
(54) DELIVERY SYSTEM FOR IMPLANTABLE STIMULATION DEVICES AND CORRESPONDING CATHETERS	(31) 201862672019 P	(47) 12.07.2023
(73) BIOTRONIK SE & Co. KG	(32) 15.05.2018	(87) CA2018050938
(72) Muessig, Dirk	(33) United States of America	07.02.2019
Kibler, Andrew B.	(51) A61N 1/372	(22) 01.08.2018
(31) 201662306092 P	G16H 40/40	(54) TRANSITIONAL LIGHTING FOR ENTRAINING BIOLOGICAL RHYTHMS
(32) 10.03.2016	H04W 4/60	(73) Suntracker Technologies Ltd.
	(11) EP3402566	(72) ASHDOWN, Ian Edward
	(21) EP17701250.7	SCOTT, Wallace Jay
	(47) 12.07.2023	
	(87) US2017012987	

- (31) 201862660911 P  
201862647650 P  
201762540560 P
- (32) 20.04.2018  
24.03.2018  
02.08.2017
- (33) United States of America  
United States of America  
United States of America
- 
- (51) A61N 5/06  
A61N 2/00  
A61N 2/02  
A61H 33/14  
A61G 10/02
- (11) EP3562548  
(21) EP17844657.1  
(47) 12.07.2023  
(87) PL2017000129  
28.06.2018  
(22) 20.12.2017  
(54) THERAPEUTIC DEVICE  
(73) Smela, Krzysztof Pawel  
(72) SIERON Aleksander Romuald  
(31) 41996416  
(32) 23.12.2016  
(33) Poland
- 
- (51) A61N 5/10  
(11) EP3902602  
(21) EP19839469.4  
(47) 12.07.2023  
(87) US2019066430  
02.07.2020  
(22) 16.12.2019  
(54) MULTILEAF COLLIMATOR WITH  
ALTERNATING TRAPEZOIDAL LEAF  
GEOMETRY DESIGN  
(73) Siemens Healthineers International AG  
Varian Medical Systems, Inc.  
(72) RIEGER, Rachel  
MAGLIARI, Anthony  
BAIC, Dusan  
KAUPPINEN, Juha  
(31) 201816236112  
(32) 28.12.2018  
(33) United States of America
- 
- (51) A61N 5/10  
(11) EP3655097  
(21) EP18749982.7  
(47) 12.07.2023  
(87) US2018042457  
24.01.2019  
(22) 17.07.2018  
(54) PARTICLE BEAM GUN CONTROL  
(73) Varian Medical Systems, Inc.  
(72) CLAYTON, James, Edward  
TRAIL, Mark, Everett  
(31) 201715657036  
(32) 21.07.2017  
(33) United States of America
- 
- (51) A61N 5/10  
(11) EP3986544  
(21) EP19740293.6  
(47) 12.07.2023  
(87) US2019039830  
24.12.2020  
(22) 28.06.2019
- (54) PREDICTING RADIOTHERAPY  
CONTROL POINTS USING  
PROJECTION IMAGES  
(73) Elekta, Inc.  
(72) HIBBARD, Lyndon Stanley  
(31) 201962864188 P  
(32) 20.06.2019  
(33) United States of America
- 
- (51) A61N 5/10  
G21K 5/04  
(11) EP3669941  
(21) EP18214842.9  
(47) 12.07.2023  
(22) 20.12.2018  
(54) SYSTEM AND METHOD FOR  
PLANNING OF PASSIVE ION  
RADIOTHERAPY TREATMENT  
(73) RaySearch Laboratories AB  
(72) Fredriksson, Albin  
Engwall, Erik
- 
- (51) A61P 1/00  
A61P 1/04  
A61P 3/10  
A61P 9/10  
A61P 37/08  
A61P 37/06  
A61P 37/02  
A61P 37/00  
A61P 29/00  
A61P 27/02  
A61P 25/00  
A61P 19/08  
A61P 19/02  
C07D 475/10  
A61K 31/33  
C07D 487/04  
C07D 475/00  
A61P 17/06  
(11) EP3418280  
(21) EP18177902.6  
(47) 12.07.2023  
(22) 10.04.2015  
(54) COMPOUNDS AS MODULATORS OF  
ROR GAMMA  
(73) Boehringer Ingelheim International  
GmbH  
(72) SIBLEY, Robert  
LI, Xiang  
LIANG, Shuang  
TURNER, Michael Robert  
ZHANG, Qiang  
COLLIN, Delphine  
WU, Lifan  
BAKONYI, Johanna  
BRUNETTE, Steven Richard  
HUGHES, Robert Owen  
(31) 201461979231 P  
(32) 14.04.2014  
(33) United States of America
- 
- (51) A61P 25/18  
A61K 31/437  
C07D 487/14  
C07D 495/14  
C07D 513/14  
(11) EP3781263  
(21) EP19779087.6  
(47) 12.07.2023  
(87) HU2019050017
- 24.10.2019  
(22) 18.04.2019  
(54) PHARMACEUTICALLY EFFECTIVE  
COMPOUNDS INHIBITING  
SELECTIVELY THE MYOSIN 2  
ISOFORMS  
(73) Printnet Kereskedelmi és Szolgáltató Kft.  
Eötvös Loránd Tudományegyetem  
(72) SIMON, Zoltán  
PÉNZES, Máté  
LÖRINCZ, István  
RÉPÁSI, József  
BÁTORI, Sándor  
HORVÁTH, Ádám István  
HORVÁTH, Vajk  
VÉGNÉR, László  
HÁRI, Péter  
SZABÓ, András  
SZÖNYEGI, Zoltán  
KOVÁCS, Mihály  
MÁLNÁSI-CSIZMADIA, András  
KUMAR, Suthar Sharad  
GYIMESI, Máté  
(31) 1800129  
(32) 18.04.2018  
(33) Hungary
- 
- (51) A61P 35/00  
C07D 401/14  
C07D 403/14  
C07D 409/14  
C07D 413/14  
C07D 417/14  
C07D 471/04  
A61K 31/4184  
(11) EP3833439  
(21) EP19759140.7  
(47) 12.07.2023  
(87) US2019045459  
13.02.2020  
(22) 07.08.2019  
(54) BENZIMIDAZOLE INHIBITORS OF PAD  
ENZYMES  
(73) Bristol-Myers Squibb Company  
(72) NGU, Khehyong  
(31) 201862715845 P  
(32) 08.08.2018  
(33) United States of America
- 
- (51) A61P 35/02  
A61P 39/00  
A61K 36/074  
A61P 35/00  
A23L 31/00  
A23L 33/00  
A61P 37/04  
A23L 33/10  
(11) EP3597204  
(21) EP18784616.7  
(47) 12.07.2023  
(87) CN2018075412  
18.10.2018  
(22) 06.02.2018  
(54) SHELL-BROKEN LINGZHI SPORE  
POWDER, PARTICULATE, AND  
METHOD FOR PREPARATION  
THEREOF  
(73) Zhejiang Shouxiangu Pharmaceutical  
Company, Ltd

Jinhua Shouxiangu Pharmaceutical Co. Ltd	(33) Germany	(32) 02.05.2016
(72) LI, Mingyan	(51) A62B 99/00	(33) European Patent Office (EPO)
LI, Zhenyu	B08B 3/04	(51) A63B 21/065
XU, Jing	B08B 9/00	A63B 21/00
LI, Zhenhao	B08B 11/02	A63B 21/06
WANG, Ying	F26B 21/00	A63B 23/00
(31) 201710227611	F26B 25/00	A63B 23/04
(32) 10.04.2017	G01M 3/02	(11) EP3946647
(33) China	F26B 25/06	(21) EP21794084.0
(51) A61Q 11/00	(11) EP3120899	(47) 12.07.2023
A61K 8/92	(21) EP16171975.2	(87) US2021035222
A61K 8/73	(47) 12.07.2023	09.12.2021
A61K 8/21	(22) 30.05.2016	(22) 01.06.2021
A61P 1/02	(54) METHOD AND SYSTEM FOR MAINTAINING AT LEAST ONE PROTECTIVE SUIT	(54) ADJUSTABLE SQUAT BAR
(11) EP3525888	(73) Rud. Prey GmbH & Co. KG	(73) Specialty Fitness Systems, LLC
(21) EP16784769.8	(72) Prey, Thomas	(72) HANSON, Kassem Edward
(47) 12.07.2023	(31) 102015108857	LEIPHEIMER, Jerry K.
(87) US2016057362	(32) 03.06.2015	(31) 202063032830 P
26.04.2018	(33) Germany	(32) 01.06.2020
(22) 17.10.2016	(51) A62C 2/24	(33) United States of America
(54) ORAL CARE COMPOSITION HAVING ENHANCED APPEARANCE AND FORM	F24F 11/34	(51) A63B 22/02
(73) Colgate-Palmolive Company	F24F 13/14	A63B 71/00
(72) LAVENDER, Stacey	F16K 1/22	(11) EP3544694
KHAN, Najma	F16K 17/38	(21) EP18736732.1
(51) A62B 1/14	(11) EP3897874	(47) 12.07.2023
F16B 45/00	(21) EP19795504.0	(87) US2018012229
(11) EP3421098	(47) 12.07.2023	12.07.2018
(21) EP18178390.3	(87) EP2019078840	(22) 03.01.2018
(47) 12.07.2023	25.06.2020	(54) MECHANICAL BRAKING SYSTEM FOR EXERCISE MACHINES
(22) 19.06.2018	(22) 23.10.2019	(73) True Fitness Technology, Inc.
(54) IMPROVED DESCENDER	(54) BLOCKING MECHANISM FOR A FLAP DRIVE	(72) KUEKER, Jared, M.
(73) Zedel	(73) Belimo Holding AG	(31) 201762441789 P
(72) MAURICE, Alain	(72) DÜRLER, Aaron	(32) 03.01.2017
QUILLARD, Christophe	(31) 15772018	(33) United States of America
(31) 1755851	(32) 20.12.2018	(51) A63B 45/00
(32) 26.06.2017	(33) Switzerland	A63B 41/08
(33) France	(51) A62C 13/76	B29C 65/00
(51) A62B 1/18	A62C 31/02	B29D 22/02
B65H 57/14	(11) EP3714947	B29D 22/04
(11) EP3906971	(21) EP20166011.5	B29C 65/02
(21) EP21167953.5	(47) 12.07.2023	(11) EP3624905
(47) 12.07.2023	(22) 26.03.2020	(21) EP18729052.3
(22) 12.04.2021	(54) NOZZLE AND VALVE ASSEMBLY FOR A FIRE EXTINGUISHER	(47) 12.07.2023
(54) PROTECTION DEVICE FOR ROPE AND PROTECTION SYSTEM	(73) Carrier Corporation	(87) EP2018063096
(73) Zedel	(72) MAUNEY, Ronald Coble	22.11.2018
(72) MAURICE, Alain	(31) 201962826663 P	(22) 18.05.2018
CHABOD, Pierre-Olivier	(32) 29.03.2019	(54) SPORTS BALL'S CASING AND METHODS OF MANUFACTURING A SPORTS BALL'S CASING USING ULTRASONIC WELDING
(31) 2003770	(33) United States of America	(73) Select Sport A/S
(32) 15.04.2020	(51) A63B 5/11	(72) LONGO, Francesco
(33) France	A63B 21/055	(31) PA201770359
(51) A62B 35/04	(11) EP3452181	(32) 19.05.2017
A62B 35/00	(21) EP17719639.1	(33) Denmark
(11) EP2670492	(47) 12.07.2023	(51) A63B 71/06
(21) EP12702251.5	(87) EP2017060439	G09B 19/00
(47) 12.07.2023	09.11.2017	G10K 5/00
(87) EP2012051740	(22) 02.05.2017	(11) EP3178531
09.08.2012	(54) ELASTIC ELEMENT FOR FIXING A REBOUND MAT TO A TRAMPOLINE FRAME	(21) EP15460110.8
(22) 02.02.2012	(73) Angehrn AG Umformtechnik	(47) 12.07.2023
(54) SAFETY HARNESS	(72) MEHR, Christian	(22) 10.12.2015
(73) Wobben Properties GmbH	DURRER-KUETTEL, Ludwig	(54) A METHOD OF REMOTE CONTROLLING A LUMINOUS SIGNALING SYSTEM IN THE COURSE OF SPORTS GAMES PLAYED BY ORALLY AND AURALLY
(72) GÖPFERT, Heinrich	BISANG, Erwin	
GIMMERTHAL, Mike	(31) 16167861	
(31) 102011003579		
(32) 03.02.2011		

CHALLENGED PLAYERS AND A SET OF ELECTRONIC DEVICES FOR APPLICATION OF THE METHOD	A63G 31/02	A63H 3/00
(73) INGLOT Mardcin F.H.U. IngTrans	(11) EP3804827	(11) EP4019104
(72) Inglot, Marcin	(21) EP20195625.7	(21) EP21163815.0
(51) A63C 9/085	(47) 12.07.2023	(47) 12.07.2023
(11) EP3755442	(22) 14.03.2014	(22) 10.10.2016
(21) EP19718927.7	(54) TRACKLESS VEHICLE AND SYSTEM FOR SYNCHRONOUS CONTROL OF TRACKLESS VEHICLE	(54) ASSEMBLY WITH OBJECT IN HOUSING AND MECHANISM TO OPEN HOUSING
(47) 12.07.2023	(73) Oceaneering International, Inc.	(73) Spin Master Ltd.
(87) SK2019000001	(72) BOSHEARS, Micheal Wayne GRANT, Andrew Scott	(72) CHARBONNEAU, Anne N. LAI, Victor
29.08.2019	(31) 201361800257 P	McDONALD, David
(22) 20.02.2019	(32) 15.03.2013	HASHEMI, Hamid R.
(54) FRONT SEGMENT OF SKI BINDING	(33) United States of America	PRUZANSKY, Amy
(73) Gáborik, Jozef	(51) A63H 1/00	(31) 201615227740
(72) Gáborik, Jozef	(11) EP3784361	201615199341
(31) PV282018 U	(21) EP19721582.5	201514884191
(32) 20.02.2018	(47) 12.07.2023	(32) 03.08.2016
(33) Slovakia	(87) EP2019060797	30.06.2016
(51) A63F 1/06	31.10.2019	15.10.2015
A63F 1/18	(22) 26.04.2019	(33) United States of America
G07F 17/32	(54) A TOY SPINNING TOP AND TOY SYSTEM WITH A TOY SPINNING TOP AND A TOY FIGURINE	United States of America
A63F 3/00	(73) LEGO A/S	United States of America
A63F 9/24	(72) POTTER, Jaime Sanchez LOPEZ, Leonardo Francisco	United States of America
(11) EP3909655	GARLING, Aske Klejnstrup	
(21) EP21183852.9	MANOVI, Cerim	(51) A63H 33/12
(47) 12.07.2023	(31) PA201870245	A63H 33/10
(22) 06.08.2014	(32) 26.04.2018	(11) EP4000707
(54) A METHOD FOR ADMINISTRATING A PACKAGE OF SHUFFLED PLAYING CARDS	(33) Denmark	(21) EP20209584.0
(73) Angel Playing Cards Co., Ltd.	(51) A63H 17/05	(47) 12.07.2023
(72) SHIGETA, Yasushi	A63H 17/06	(22) 24.11.2020
(31) 2014201757	(11) EP4023312	(54) CONNECTION SYSTEM AND METHOD FOR MOUNTING AN ASSEMBLY
2013213710	(21) EP21212281.6	(73) Zurek, Marco
(32) 24.03.2014	(47) 12.07.2023	Hurzig, André
08.08.2013	(22) 03.12.2021	(72) Zurek, Marco
(33) Australia	(54) TOY CAR	Hurzig, André
Australia	(73) Bruder Spielwaren GmbH + Co. KG	(51) B01D 15/08
(51) A63F 13/24	(72) PFEFFERLEIN, Marc	B01D 5/00
(11) EP3878530	(31) 102020216589	B01D 53/26
(21) EP21169961.6	(32) 30.12.2020	C02F 1/14
(47) 12.07.2023	(33) Germany	E03B 3/28
(22) 16.09.2010	(51) A63H 17/395	(11) EP3749428
(54) OPERATION DEVICE	A63H 17/40	(21) EP19746859.8
(73) Sony Interactive Entertainment Inc.	A63H 17/41	(47) 12.07.2023
(72) Araki, Takamasa	A63H 18/16	(87) US2019016565
Yano, Ken	(11) EP3795226	08.08.2019
(31) 2009215489	(21) EP20204759.3	(22) 05.02.2019
(32) 17.09.2009	(47) 12.07.2023	(54) ATMOSPHERIC MOISTURE HARVESTER
(33) Japan	(22) 18.05.2017	(73) The Regents of the University of California
(51) A63F 13/56	(54) INFORMATION MEDIUM	(72) KAPUSTIN, Eugene A.
A63F 13/573	(73) Sony Interactive Entertainment Inc.	KALMUTZKI, Markus J.
A63F 13/577	(72) TANAKA, Akichika	FATHIEH, Farhad
(11) EP3381524	NAKAYAMA, Tetsunori	YAGHI, Omar M.
(21) EP17163974.3	ANDRE, Alexis	(31) 201862626675 P
(47) 12.07.2023	(31) 201662414102 P	(32) 05.02.2018
(22) 30.03.2017	201662371078 P	(33) United States of America
(54) CONTROLLING LOCOMOTION OF A PLURALITY OF NON-PLAYER CHARACTERS IN A SIMULATED MULTI-DIMENSIONAL WORLD SPACE	(32) 28.10.2016	(51) B01D 21/00
(73) IO-Interactive A/S	04.08.2016	B01D 21/02
(72) De Pascale, Maurizio	(33) United States of America	(11) EP3842111
(51) A63G 21/00	United States of America	(21) EP19852412.6
A63G 31/00	(51) A63H 29/22	(47) 12.07.2023
A63G 25/00	A63H 3/50	(87) ES2019070420
G05D 1/02	A63H 13/02	27.02.2020
	C08K 5/098	(22) 17.06.2019
	A63H 3/36	(54) LAMELLA FOR CLARIFIER AND LAMELLAR MODULE FOR CLARIFIER

(73) ATCA Asesoría Proyectos E Instalaciones, S.L.	B01D 33/80	B01D 47/12
(72) RODRÍGUEZ GÓMEZ, Pedro Roberto	(11) EP3773976	C07C 273/16
(31) 201830839	(21) EP19719167.9	(11) EP3972717
(32) 24.08.2018	(47) 12.07.2023	(21) EP20743880.5
(33) Spain	(87) EP2019058285	(47) 12.07.2023
(51) B01D 24/00	10.10.2019	(87) NL2020050326
B01D 24/10	(22) 02.04.2019	26.11.2020
B01D 24/14	(54) DEVICE AND METHOD FOR	(22) 22.05.2020
B01D 24/40	MEASURING A FILTER CAKE	(54) TREATMENT OF OFFGAS FROM UREA
B01J 19/30	THICKNESS	FINISHING
(11) EP3294432	(73) BHS-Sonthofen GmbH	(73) Stamicarbon B.V.
(21) EP16725881.3	(72) STEIDL, Detlef	(72) DIRKX, Wilfried Marc Renaat
(47) 12.07.2023	SÜSS, Wolfgang	PUCI, Giusy Elisa
(87) GB2016000101	SCHÄFER, Martin	(31) 19175907
24.11.2016	(31) 102018205236	(32) 22.05.2019
(22) 16.05.2016	(32) 06.04.2018	(33) European Patent Office (EPO)
(54) MECHANICAL FILTER ELEMENT, APPARATUS AND METHOD	(33) Germany	(51) B01D 53/00
(73) Evolution Aqua Limited	(51) B01D 33/067	F25J 3/08
(72) JACKSON, Nicholas John	B01D 33/11	B01D 49/00
KUIJPER, Jasper Hendericus Maria	B01D 33/50	B01D 53/24
(31) 201600483	(11) EP3895778	(11) EP3912703
201508392	(21) EP21168466.7	(21) EP21151563.0
(32) 11.01.2016	(47) 12.07.2023	(47) 12.07.2023
15.05.2015	(22) 14.04.2021	(22) 14.01.2021
(33) United Kingdom	(54) DRUM FILTER FOR REMOVING SOLID	(54) GAS PURIFICATION METHOD FROM
United Kingdom	MATTER FROM A LIQUID, FILTER	IMPURITIES
(51) B01D 27/06	DRUM AND FLEXIBLE SEAL FOR USE	(73) Aladyev, Ivan S.
B01D 27/10	IN SUCH A DRUM FILTER	Aladyev, Sergey I.
(11) EP3750611	(73) Bimex B.V.	Baklyukova, Ekaterina P.
(21) EP20189371.6	(72) MULLER, Johannes Martinus	(72) Aladyev, Sergey I.
(47) 12.07.2023	(31) 2025346	(31) 2020117714
(22) 17.12.2014	(32) 15.04.2020	(32) 19.05.2020
(54) TREATMENT DEVICE FOR TREATING	(33) Netherlands	(33) Russian Federation
FLUIDS, IN PARTICULAR LIQUID	(51) B01D 46/24	(51) B01D 53/04
FLUIDS, AND TREATMENT ELEMENT	B01D 45/16	B01D 53/00
OF A TREATMENT DEVICE	B01D 50/20	B01D 46/54
(73) MANN+HUMMEL GmbH	(11) EP4108311	B01D 53/22
(72) WAGNER, Fabian	(21) EP21187308.8	(11) EP3900808
RÖSGEN, André	(47) 12.07.2023	(21) EP19907724.9
PFLÜGER, Frank	(22) 22.07.2021	(47) 12.07.2023
HASENFRATZ, Robert	(54) SELF-CLEANING AIR FILTRATION	(87) CN2019128641
THALMANN, Christian	APPARATUS AND METHOD	09.07.2020
(31) 102013021299	(73) The Sy-Klone Company, LLC	(22) 26.12.2019
(32) 19.12.2013	(72) MOREDOCK, James G	(54) SEPARATION DEVICE AND
(33) Germany	EHRENBERG, Eric L	SEPARATION METHOD
(51) B01D 29/96	(31) 202117356973	(73) China Petroleum & Chemical Corporation
B01D 36/00	(32) 24.06.2021	Dalian Research Institute Of Petroleum
(11) EP3922336	(33) United States of America	And Petrochemicals, Sinopec Corp.
(21) EP21174670.6	(51) B01D 46/42	(72) ZHANG, Ying
(47) 12.07.2023	B64D 33/02	ZHANG, Yanpeng
(22) 19.05.2021	(11) EP3870337	ZHANG, Shengzhong
(54) MANIFOLD ASSEMBLY AND METHOD	(21) EP19790865.0	GAO, Ming
OF USE	(47) 12.07.2023	QIAO, Kai
(73) Pall Corporation	(87) IB2019059075	FAN, Dequan
(72) SUN, Peng	30.04.2020	(31) 201811652280
ZHOU, Liang	(22) 23.10.2019	(32) 31.12.2018
ZHONG, Xiangyang	(54) VEHICLE PROVIDED, AT THE INTAKE,	(33) China
(31) 202010512864	WITH AN HEATABLE AIR FILTER	(51) B01D 53/62
202016901367	PROVIDED AND CORRESPONDING	B01D 9/00
(32) 08.06.2020	HEATABLE AIR FILTER	B01J 19/24
15.06.2020	(73) BMC S.R.L.	C01F 11/18
(33) China	(72) BERGAMI, Gaetano	(11) EP3787774
United States of America	(31) 201800009700	(21) EP19725034.3
(51) B01D 33/067	(32) 23.10.2018	(47) 12.07.2023
B01D 33/073	(33) Italy	(87) EP2019061254
B01D 33/09	(51) B01D 47/05	07.11.2019
	B01D 47/06	(22) 02.05.2019
	B01D 47/10	

(54) PERMANENT STORAGE OF CARBON DIOXIDE	(51) B01D 69/08	ANDERSON, Douglas
(73) Climate Solutions ApS	A61M 1/18	(31) 201862614218 P
(72) TRAMPE, Erik	B01D 71/08	(32) 05.01.2018
(31) 18170406	B01D 71/68	(33) United States of America
(32) 02.05.2018	(11) EP2896451	(51) B01F 29/80
(33) European Patent Office (EPO)	(21) EP13854249.3	B01F 31/10
(51) B01D 63/06	(47) 12.07.2023	B01F 33/452
B01D 46/24	(87) JP2013078702	B01F 33/81
B01D 67/00	22.05.2014	B01F 33/84
B01D 71/02	(22) 23.10.2013	B03C 1/28
C04B 38/00	(54) POROUS HOLLOW FIBER MEMBRANE	B03C 1/30
(11) EP3233253	(73) TOYOBO CO., LTD.	B03C 1/01
(21) EP15823696.8	(72) UENISHI, Toru	B03C 1/033
(47) 12.07.2023	ASHITAKA, Satoru	B01L 3/08
(87) FR2015053664	MONDEN, Noriko	B01F 35/71
23.06.2016	KATO, Noriaki	C12M 1/24
(22) 18.12.2015	(31) 2012250826	G01N 35/00
(54) FILTERS COMPRISING OXYGEN-DEPLETED SIC MEMBRANES	(32) 15.11.2012	G01N 35/10
(73) SAINT-GOBAIN CENTRE DE RECHERCHES ET D'ETUDES EUROPEEN	(33) Japan	B01F 29/00
Ecole Nationale Supérieure de Chimie de Montpellier	(51) B01F 23/232	(11) EP3887049
Université Montpellier 2 Sciences et Techniques	B01F 23/2373	(21) EP19889987.4
Centre National de la Recherche Scientifique	B01F 25/00	(47) 12.07.2023
(72) URFFER, Daniel	B01F 25/313	(87) US2019063288
GUIZARD, Christian	B01F 25/312	04.06.2020
(31) 1462780	B01F 25/32	(22) 26.11.2019
(32) 18.12.2014	C02F 1/68	(54) SPINNING VESSEL SYSTEMS AND METHODS FOR MIXING, SUSPENDING PARTICULATES, ALIQUOTING, WASHING MAGNETIC BEADS, AND CONCENTRATING ANALYTES
(33) France	C02F 1/72	(73) V & P Scientific, Inc.
(51) B01D 63/08	F28F 23/00	(72) HICKMAN, Christopher, P.W.
B01D 71/06	C02F 7/00	CLEVELAND, Patrick, H.
B01D 21/00	F28F 13/02	ANGELO, Christopher, A.
B01D 21/24	F28F 19/00	MYERS, Kristi, K.
C02F 1/00	F28C 1/00	RENICK, Joel, I.
(11) EP3664919	F28C 3/00	KNUTH, Natalie, A.
(21) EP18843000.3	(11) EP3426385	LOI, Alan, J.
(47) 12.07.2023	(21) EP17764194.1	CHAVEZ, John, E.
(87) US2018046047	(47) 12.07.2023	(31) 201862772397 P
14.02.2019	(87) US2017021814	(32) 28.11.2018
(22) 09.08.2018	14.09.2017	(33) United States of America
(54) CLARIFIER FOR WATER TREATMENT	(22) 10.03.2017	(51) B01F 29/83
(73) Xylem Water Solutions Zelenople LLC	(54) METHOD FOR PRODUCING A COMPOSITION CONTAINING NANO-BUBBLES IN A LIQUID CARRIER	B01F 35/45
(72) WILEY, III, Robert Lee	(73) Moleaer, Inc	B01F 35/75
(31) 201762598623 P	(72) SCHOLTEN, Bruce	F16H 25/18
201762543036 P	RUSSELL, Warren Stuart	(11) EP3765183
(32) 14.12.2017	(31) 201662306637 P	(21) EP19710382.3
09.08.2017	(32) 11.03.2016	(47) 12.07.2023
(33) United States of America	(33) United States of America	(87) EP2019055843
United States of America	(51) B01F 25/312	19.09.2019
(51) B01D 69/06	B01F 23/45	(22) 08.03.2019
B01D 29/01	B01D 21/24	(54) DEVICE FOR CONVERTING A LINEAR MOVEMENT IN A STATIONARY SYSTEM INTO A ROTATIONAL MOVEMENT ABOUT A PIVOT AXIS IN A SYSTEM WHICH ROTATES ABOUT A ROTATIONAL AXIS
B01D 46/52	B01J 49/75	(73) Maschinenfabrik Gustav Eirich GmbH & Co KG
(11) EP3643384	C02F 1/42	(72) SCHMITT, Clemens
(21) EP19201968.5	F16K 15/14	BLAU, Simon
(47) 12.07.2023	F04F 5/00	(31) 102018106188
(22) 08.10.2019	E03C 1/00	(32) 16.03.2018
(54) SUPPORT AND DRAINAGE MATERIAL, FILTER, AND METHOD OF USE	(11) EP3735316	(33) Germany
(73) Pall Corporation	(21) EP19735791.6	(51) B01F 33/84
(72) MILLER, John P.	(47) 12.07.2023	B01F 35/00
(31) 201816169622	(87) US2019012458	B08B 15/02
(32) 24.10.2018	11.07.2019	
(33) United States of America	(22) 07.01.2019	
	(54) SOFTENER EDUCTOR WITH EMBEDDED CHECK VALVE	
	(73) CULLIGAN INTERNATIONAL COMPANY	
	(72) WEST, David Jan	
	SAHNI, Harkirat	

(11) EP3938091	(73) Rudolf GmbH	OHMAN, Johan
(21) EP20725851.8	Fluitech Invest AG	ZOU, Jinyu
(47) 12.07.2023	(72) GEORG, Alain	ANDER, Mats
(87) FR2020050470	DUSCHEK, Gunther	JORSBACK, Anneli
17.09.2020	ANDREOLI, Silvano	(31) 201619356
(22) 09.03.2020	SCHACHT, Michael	(32) 16.11.2016
(54) MACHINE FOR DISTRIBUTING A	ALTENBURGER, Daniel	(33) United Kingdom
LIQUID OR PASTY PRODUCT AND	VÖGELI, Tobias	(51) B01J 21/04
METHOD FOR OPERATING SAID	(31) 15194070	B01J 23/00
MACHINE	(32) 11.11.2015	B01J 23/755
(73) Fillon Technologies	(33) European Patent Office (EPO)	B01J 35/00
(72) BRULÉ, Aurélien	(51) B01J 19/24	B01J 35/10
HIBLOT, Nicolas	(11) EP4037821	B01J 37/02
PAPIN, Cyril	(21) EP20780176.2	B01J 37/08
(31) 1902441	(47) 12.07.2023	C07C 5/09
(32) 11.03.2019	(87) EP2020076698	C07C 5/11
(33) France	08.04.2021	C10G 45/36
(51) B01F 33/84	(22) 24.09.2020	C10G 45/48
B01F 35/21	(54) OFFSHORE REFORMING	(11) EP4003587
B01F 35/22	INSTALLATION OR VESSEL	(21) EP20739701.9
B01F 35/71	(73) Topsoe A/S	(47) 12.07.2023
B01F 35/90	(72) MORTENSEN, Peter Mølgaard	(87) EP2020070078
C12M 1/00	DAHL, Per Juul	04.02.2021
C12M 3/00	KLEIN, Robert	(22) 16.07.2020
(11) EP3562577	AASBERG-PETERSEN, Kim	(54) CATALYST COMPRISING AN ACTIVE
(21) EP17823155.1	LARSEN, Kasper Emil	NICKEL PHASE IN THE FORM OF
(47) 12.07.2023	(31) PA201901434	SMALL PARTICLES DISTRIBUTED
(87) EP2017084480	PA201901148	IN A SHELL AND A NICKEL-COPPER
05.07.2018	(32) 06.12.2019	ALLOY
(22) 22.12.2017	01.10.2019	(73) IFP Energies nouvelles
(54) MIXING SYSTEM	(33) Denmark	(72) BOUALLEG, Malika
(73) Global Life Sciences Solutions USA LLC	Denmark	DUBREUIL, Anne-Claire
(72) RAMAKRISHNA, Manoj	(51) B01J 19/24	(31) 1908724
PAUL, Praveen	B01J 4/00	(32) 31.07.2019
PATIL, Hareesh, Digambar	B01J 19/00	(33) France
BHARGAV, Anoop	(11) EP4028156	(51) B01J 23/83
JOHN, Sebastian	(21) EP20772251.3	C07C 211/35
(31) 201611044896	(47) 12.07.2023	C07C 211/46
(32) 29.12.2016	(87) EP2020075499	C07C 209/72
(33) India	18.03.2021	C07C 209/62
(51) B01J 8/06	(22) 11.09.2020	(11) EP3042719
(11) EP2841192	(54) DEVICE AND METHOD FOR	(21) EP14842933.5
(21) EP13721616.4	INVESTIGATING CHEMICAL	(47) 12.07.2023
(47) 12.07.2023	PROCESSES	(87) CN2014073063
(87) EP2013058406	(73) HTE GmbH The High Throughput	12.03.2015
31.10.2013	Experimentation Company	(22) 07.03.2014
(22) 23.04.2013	(72) HIGELIN, Alexander	(54) USE OF A CATALYST FOR FIXED BED
(54) CATALYST LOADING TOOL	DEJMEK, Michael	ANILINE RECTIFICATION RESIDUE
(73) Mourik International B.V.	WASSERSCHAFF, Guido	RECYCLING
(72) KNUBBEN, Petrus Paulus Gerardus	PUETTMANN, Oliver	(73) Wanhua Chemical Group Co., Ltd.
Marie	SCHNEIDER, Fabian	(72) CHEN, Zhongying
(31) 2008687	MUELLER, Andreas	NI, Zilun
201261638610 P	(31) 102019214018	CAO, Shanjian
(32) 23.04.2012	(32) 13.09.2019	ZHANG, Congying
26.04.2012	(33) Germany	YANG, Zaigang
(33) Netherlands	(51) B01J 20/32	HU, Bingbo
United States of America	B01J 20/24	JIANG, Qingmei
(51) B01J 19/00	B01J 20/286	WANG, Hui
B01J 19/24	(11) EP3541508	MEI, Hua
(11) EP3374077	(21) EP17804490.5	SONG, Jinhong
(21) EP16797773.5	(47) 12.07.2023	QU, Jun
(47) 12.07.2023	(87) EP2017079101	YU, Dewei
(87) EP2016076570	24.05.2018	CHEN, Hao
18.05.2017	(22) 14.11.2017	LI, Yuan
(22) 03.11.2016	(54) PRODUCTION METHOD FOR AFFINITY	(31) 201310396100
(54) DEVICE FOR CARRYING OUT	CHROMATOGRAPHY RESIN	(32) 03.09.2013
A CHEMICAL REACTION IN A	(73) Cytiva BioProcess R&D AB	(33) China
CONTINUOUS METHOD	(72) GRANER, Therese	(51) B01J 27/051



C07C 211/62	(21) EP10702069.5	(47) 12.07.2023
C10M 169/02	(47) 12.07.2023	(22) 03.08.2021
C10M 159/18	(87) EP2010000553	(54) CUTTING TIP ATTACHMENT
C10M 125/22	05.08.2010	(73) Vecoplan AG
C10M 133/06	(22) 29.01.2010	(72) Pink, Florian
C07C 211/63	(54) PHASEGUIDE PATTERNS FOR LIQUID	(31) 102020122655
C10N 10/02	MANIPULATION	(32) 31.08.2020
C10N 10/12	(73) Universiteit Leiden	(33) Germany
C10N 30/06	(72) URBAN, Gerald	(51) B03C 1/28
C10N 50/10	PODSZUN, Susann	F16L 55/24
(11) EP3419753	VULTO, Paul	B01D 35/153
(21) EP17757003.3	(31) 09001346	B01D 35/06
(47) 12.07.2023	(32) 30.01.2009	B01D 29/11
(87) US2017017800	(33) European Patent Office (EPO)	B01D 35/02
31.08.2017	(51) B01L 3/02	B03C 1/30
(22) 14.02.2017	(11) EP3538276	B03C 1/033
(54) QUATERNARY AMMONIUM	(21) EP17804060.6	(11) EP3969185
SULFUR-CONTAINING BINUCLEAR	(47) 12.07.2023	(21) EP20742851.7
MOLYBDATE SALTS AS LUBRICANT	(87) EP2017001306	(47) 12.07.2023
ADDITIVES	17.05.2018	(87) IB2020054622
(73) Vanderbilt Chemicals, LLC	(22) 10.11.2017	26.11.2020
(72) GATTO, Vincent J.	(54) MANUAL METERING DEVICE	(22) 15.05.2020
CASEY, Brian M.	AND MANUAL METERING DEVICE	(54) FILTER FOR TREATING A FLUID IN
(31) 201662298743 P	ARRANGEMENT	A PIPING OF A HEATING AND/OR
(32) 23.02.2016	(73) IKA - Werke GmbH & Co. KG	COOLING SYSTEM, IN PARTICULAR
(33) United States of America	(72) DÖBELE, Philip	OF DOMESTIC AND/OR INDUSTRIAL
(51) B01J 29/70	SCHROER, Erhard	TYPE
B01J 37/00	(31) 102016121817	(73) RBM IBOX S.R.L.
B01J 35/10	(32) 14.11.2016	(72) BOSSINI, Guido
C07C 15/085	(33) Germany	(31) 201900006977
C07C 2/86	(51) B01L 3/02	(32) 17.05.2019
C07C 2/66	G01N 35/10	(33) Italy
C07C 6/12	(11) EP2719461	(51) B03D 1/14
(11) EP3033172	(21) EP12188267.4	B03D 1/24
(21) EP14798984.2	(47) 12.07.2023	D21B 1/32
(47) 12.07.2023	(22) 12.10.2012	(11) EP3060717
(87) IB2014065296	(54) Method of pipetting a test liquid	(21) EP14805981.9
23.04.2015	(73) F. Hoffmann-La Roche AG	(47) 12.07.2023
(22) 14.10.2014	(72) Hutter, Roland	(87) FR2014052718
(54) CATALYTIC COMPOSITION AND	Stoeckli, Roland	30.04.2015
PROCESS USING IT FOR THE	(51) B01L 9/00	(22) 24.10.2014
ALKYLATION OF AROMATIC	G01N 35/04	(54) FLOTATION PROCESS AND FACILITY
HYDROCARBONS WITH ALCOHOLS,	G01N 35/10	FOR THE IMPLEMENTATION
OR MIXTURES OF ALCOHOLS AND	(11) EP3720608	THEREOF
OLEFINS	(21) EP18886836.8	(73) KADANT LAMORT
(73) Versalis S.p.A.	(47) 12.07.2023	(72) POTTIER, Stéphan
(72) BUZZONI, Roberto	(87) US2018061465	(31) 1360439
FOIS, Giovanni Antonio	13.06.2019	(32) 25.10.2013
BENCINI, Elena	(22) 16.11.2018	(33) France
(31) MI20131704	(54) PROBE TIP WASTE CHUTES	(51) B04B 1/00
(32) 15.10.2013	AND METHODS THEREOF FOR	(11) EP3735321
(33) Italy	AUTOMATED DIAGNOSTIC ANALYSIS	(21) EP18855113.9
(51) B01L 3/00	APPARATUS	(47) 12.07.2023
(11) EP2943279	(73) Siemens Healthcare Diagnostics Inc.	(87) DE2018000381
(21) EP13700642.5	(72) PHARAI, Steffen	11.07.2019
(47) 12.07.2023	BAKONYI, Frank	(22) 19.12.2018
(87) EP2013050327	ANSALONE, Domenick	(54) CENTRIFUGE
17.07.2014	BALLEN, Toby	(73) Krettek, Guntram
(22) 09.01.2013	(31) 201762595022 P	(72) Krettek, Guntram
(54) SYSTEM FOR MANIPULATING	(32) 05.12.2017	(31) 102018000057
SAMPLES IN LIQUID DROPLETS	(33) United States of America	(32) 05.01.2018
(73) Tecan Trading AG	(51) B02C 18/18	(33) Germany
(72) FRANKLIN, Michael, Benjamin	F16B 33/00	(51) B04B 11/08
WANG, Kailiang	F16B 5/06	B04B 15/06
LEE, Travis	F16B 5/02	(11) EP3735322
(51) B01L 3/00	F16B 37/12	(21) EP18855112.1
F16K 99/00	(11) EP3960299	(47) 12.07.2023
(11) EP2391444	(21) EP21189424.1	(87) DE2018000380

11.07.2019	(22) 15.01.2018	(73) UAB "Neurotechnology"
(22) 19.12.2018	(54) NANOPARTICULATE-AEROSOL	(72) Mikolajunas, Marius
(54) SKIMMER CENTRIFUGE	GENERATOR AND METHOD FOR	Putkis, Osvaldas
(73) Krettek, Guntram	CONTINUOUSLY GENERATING	Virzonis, Darius
(72) Krettek, Guntram	AEROSOLS, ASSOCIATED WITH SAID	Vanagas, Gailius
(31) 102018000056	GENERATOR	<hr/>
(32) 05.01.2018	(73) Universidad De Zaragoza	(51) B06B 1/06
(33) Germany	(72) LOBERA GONZÁLEZ, María Pilar	A61B 8/00
<hr/>	CLEMENTE CORNAGO, Alberto	A61B 8/12
(51) B05B 1/30	SANTAMARÍA RAMIRO, Jesús	(11) EP3843909
B05B 7/04	BALAS NIETO, Francisco	(21) EP19762760.7
B05B 15/55	(31) 201730055	(47) 12.07.2023
B29B 7/74	(32) 18.01.2017	(87) EP2019073255
B29B 7/80	(33) Spain	05.03.2020
B01F 25/421	<hr/>	(22) 30.08.2019
B01F 35/10	(51) B05B 11/00	(54) NON-RECTANGULAR TRANSDUCER
B05B 7/12	A47K 5/00	ARRAYS AND ASSOCIATED DEVICES,
B05B 7/24	A47K 5/06	SYSTEMS, AND METHODS
B05B 7/00	A47K 5/12	(73) Koninklijke Philips N.V.
B05B 12/00	A47K 5/14	(72) SUDOL, Wojtek
B01F 101/00	B05B 1/00	(31) 201862725785 P
(11) EP3713677	(11) EP3735542	(32) 31.08.2018
(21) EP18881510.4	(21) EP18897945.4	(33) United States of America
(47) 12.07.2023	(47) 12.07.2023	<hr/>
(87) US2018056017	(87) US2018067986	(51) B06B 1/06
31.05.2019	11.07.2019	B06B 1/02
(22) 16.10.2018	(22) 28.12.2018	A61B 8/12
(54) PLURAL COMPONENT SPRAY GUN	(54) DISPENSING PUMP WITH POLYMER	G01N 29/26
SYSTEM	COMPRESSION SPRING ASSEMBLY	G01N 29/34
(73) Wagner Spray Tech Corporation	(73) Silgan Dispensing Systems Corporation	G01S 15/89
(72) DAIGLE, Thomas P.	(72) ZUIJDERDIJN, Paulus	G10K 11/34
JERDEE, Jeffrey S.	DEMAN, Eelco H.	G01S 7/52
JOHNSON, Shawn C.	(31) 201815861108	(11) EP3964301
(31) 201816157694	(32) 03.01.2018	(21) EP21205378.9
201762589141 P	(33) United States of America	(47) 12.07.2023
201762589145 P	<hr/>	(22) 27.05.2015
(32) 11.10.2018	(51) B05B 11/00	(54) PIEZOELECTRIC TRANSDUCER
21.11.2017	A61M 11/00	DEVICE WITH FLEXIBLE SUBSTRATE
21.11.2017	(11) EP3787801	(73) Fujifilm Dimatix, Inc.
(33) United States of America	(21) EP18917218.2	(72) HAJATI, Arman
United States of America	(47) 12.07.2023	(31) 201414292438
United States of America	(87) CN2018085665	(32) 30.05.2014
<hr/>	07.11.2019	(33) United States of America
(51) B05B 1/30	(22) 04.05.2018	<hr/>
B05C 5/02	(54) MICROSTRUCTURED NOZZLE	(51) B07B 1/18
(11) EP3668655	(73) Microbase Technology Corp.	B07B 13/00
(21) EP18753125.6	(72) CHEN, Po-chuan	(11) EP3801931
(47) 12.07.2023	LIN, Yi-ting	(21) EP19705451.3
(87) EP2018071094	<hr/>	(47) 12.07.2023
21.02.2019	(51) B05B 15/50	(87) DE2019100069
(22) 03.08.2018	B05B 15/555	28.11.2019
(54) PNEUMATIC SUPPLY VIA A VALVE	B05B 14/49	(22) 23.01.2019
COVER	B08B 15/02	(54) SEPARATING DRUM
(73) Pomtava SA	(11) EP3551346	(73) Schaeffler Technologies GmbH & Co. KG
(72) NICOLET, Alois	(21) EP16923141.2	(72) WARTER, Thomas
MARCHAND, Euphémien	(47) 12.07.2023	SEEBER, Sven
(31) 1757683	(87) CA2016051455	KLEMENT, Marko
(32) 15.08.2017	14.06.2018	(31) 102018112574
(33) France	(22) 09.12.2016	(32) 25.05.2018
<hr/>	(54) DEVICE FOR CLEANING AND DRYING	(33) Germany
(51) B05B 7/32	A SPRAYING UNIT	<hr/>
B05B 7/26	(73) Circle Dynamics Inc.	(51) B07B 1/26
B05B 7/24	Doyle, James Laurence	B01D 33/00
B82Y 30/00	(72) DOYLE, James Laurence	(11) EP3277438
A61M 11/04	<hr/>	(21) EP16715362.6
A61M 11/00	(51) B06B 1/02	(47) 12.07.2023
(11) EP3572154	G10K 15/02	(87) NL2016050068
(21) EP18741991.6	(11) EP3878566	04.08.2016
(47) 12.07.2023	(21) EP21171742.6	(22) 29.01.2016
(87) ES2018070027	(47) 12.07.2023	(54) SCREENING DEVICE AND METHOD
26.07.2018	(22) 03.08.2018	FOR SEPARATING DRY GRANULAR
	(54) ELECTROSTATIC TRANSDUCER	MATERIAL

(73) Oijense Bovendijk B.V.	(31) 201662331020 P	(32) 01.11.2013
(72) SCHENK, Koos Jacobus	(32) 03.05.2016	(33) United States of America
(31) 2014210	(33) United States of America	(51) B21C 1/00
(32) 29.01.2015	(51) B07C 5/344	B21C 9/00
(33) Netherlands	B07C 5/36	B21F 45/00
(51) B07B 4/02	B07C 7/02	C22C 19/05
B07B 9/02	G06K 7/10	C22C 19/07
B07B 11/02	(11) EP3668658	(11) EP3854495
B07B 11/06	(21) EP18846871.4	(21) EP21152555.5
B27N 1/00	(47) 12.07.2023	(47) 12.07.2023
C01B 33/20	(87) US2018046460	(22) 20.01.2021
(11) EP3778041	21.02.2019	(54) METHOD FOR MANUFACTURING A
(21) EP20191977.6	(22) 13.08.2018	BIOCOMPATIBLE WIRE
(47) 12.07.2023	(54) SYSTEM AND METHOD FOR SORTING	(73) Heraeus Deutschland GmbH & Co. KG
(22) 09.08.2018	ARTICLES USING MOBILE SORTER	(72) GOLAGANI VENKATA KANAKA, Sai
(54) DEVICE FOR SEPARATING AND / OR	PLATFORMS	Srikanth
RECOVERING SILICATE PARTICLES	(73) Tompkins Robotics, Inc.	SPECHT, Heiko
FROM PLANT MATERIAL	(72) SERSTAD, James M.	LIU, Zhen Yun
(73) Siempelkamp Maschinen- und	PATEL, Milan	(31) 202016749495
Anlagenbau GmbH	EDOUARD, James	(32) 22.01.2020
(72) Berns, Jochem	FEHRENBACHER, Ryan	(33) United States of America
Schöler, Michael	WELLS, Ray	(51) B21C 37/28
Trummel, Michael Schöler	WU, Steven	B21K 23/00
Fechner W. hans	SPAIN, John C.	F16L 9/00
(31) 102017120033	MCKNIGHT, Denny	F16L 27/12
(32) 31.08.2017	KAMINSKA, Richard C., III	B21J 5/06
(33) Germany	FUTCH, Michael C.	B29C 65/56
(51) B07B 13/16	(31) 201762545814 P	B29C 65/58
B07B 1/46	(32) 15.08.2017	B29C 65/00
B01D 33/03	(33) United States of America	(11) EP3960317
B01D 33/41	(51) B07C 5/36	(21) EP20193250.6
(11) EP3417952	B25J 9/16	(47) 12.07.2023
(21) EP18181269.4	(11) EP3718649	(22) 28.08.2020
(47) 12.07.2023	(21) EP20166820.9	(54) METHOD OF MANUFACTURING
(22) 11.04.2011	(47) 12.07.2023	A TUBE SNAP FASTENING
(54) APPARATUS AND METHOD FOR	(22) 30.03.2020	ARRANGEMENT
SEPARATING SOLIDS FROM A SOLIDS	(54) PLATE PRODUCTION SYSTEM WITH	(73) ROL AB
LADEN DRILLING FLUID	SORTING DEVICE AND METHOD	(72) Dahlberg, Fredrik
(73) National Oilwell Varco, L.P.	(73) SR-Schindler Maschinen - Anlagetechnik	Ombäck, Stellan
(72) BURNETT, George, Alexander	GmbH	(51) B21C 47/24
LARSON, Thomas Robert	(31) 102019108776	(11) EP3983146
(31) 77120110	(32) 03.04.2019	(21) EP20715855.1
(32) 30.04.2010	(33) Germany	(47) 12.07.2023
(33) United States of America	(51) B08B 15/04	(87) EP2020058955
(51) B07C 3/00	A61M 1/00	17.12.2020
B07C 5/38	(11) EP3939711	(22) 30.03.2020
B07C 3/02	(21) EP21173819.0	(54) FIXING A STRIP END SEGMENT OF A
B07C 3/08	(47) 12.07.2023	METAL STRIP COIL TO AN ADJACENT
(11) EP3452234	(22) 14.05.2021	STRIP WINDING
(21) EP17724972.9	(54) SUCTION ARM WITH FILTER	(73) SMS group GmbH
(47) 12.07.2023	(73) TBH GmbH	(72) KREX, Andreas
(87) US2017030930	(72) Farr, Fabian	BÖCKING, Sebastian
09.11.2017	(31) 202020104146 U	FICK, Guido
(22) 03.05.2017	(32) 17.07.2020	(31) 102020200472
(54) MATERIAL HANDLING METHOD	(33) Germany	102019208607
FOR SORTING ITEMS USING A	(51) B08B 17/02	(32) 16.01.2020
DYNAMICALLY CONFIGURABLE	B65D 88/16	13.06.2019
SORTING ARRAY	(11) EP3062940	(33) Germany
(73) Opex Corporation	(21) EP14799630.0	Germany
(72) YORK, Michael	(47) 12.07.2023	(51) B21D 5/00
O'MARA, Kerry	(87) US2014063498	B21D 5/08
MCVAUGH, Monty	07.05.2015	G05B 23/02
CHERRY, Kevin	(22) 31.10.2014	(11) EP3909696
DIETRICH, Douglas	(54) EFFLUENT CONTAINMENT DEVICE	(21) EP21175720.8
RESSLER, David	FOR CLEANING FIN FAN COOLERS	(47) 12.07.2023
HODGE, Robert	(73) Earp, Danny	(22) 25.04.2018
DEWITT, Robert	(72) Earp, Danny	(54) ROLL-FORMING UNIT WITH A
STEVENS, Alexander	(31) 201314070240	SENSOR ROLL-FORMING STAND

(73) data M Sheet Metal Solutions GmbH	B21D 28/18	(54) RACK BAR MANUFACTURING METHOD
(72) Sedlmaier, Albert	B21D 28/22	(73) Neturen Co., Ltd.
(31) 102017109713	B23K 26/00	(72) AOKI Kenichi
(32) 05.05.2017	B23K 26/08	(31) 2017196921
(33) Germany	B23K 26/364	(32) 10.10.2017
(51) B21D 5/01	B23K 26/40	(33) Japan
B21C 37/08	B23K 101/26	(51) B22D 11/126
(11) EP3195951	B23K 103/04	B23D 79/02
(21) EP15842840.9	B23P 15/00	B23D 79/06
(47) 12.07.2023	B21D 1/02	B22D 31/00
(87) JP2015076535	B23K 26/082	(11) EP3878573
24.03.2016	B23K 101/16	(21) EP19882448.4
(22) 17.09.2015	(11) EP3765233	(47) 12.07.2023
(54) METHOD FOR MANUFACTURING MOLDED ARTICLE AND MOLD	(21) EP19785108.2	(87) JP2019042459
(73) Nippon Steel Corporation	(47) 12.07.2023	14.05.2020
(72) YOSHIDA, Tohru	(87) US2019027363	(22) 30.10.2019
SATO, Masahiko	17.10.2019	(54) MELTED BURR REMOVAL DEVICE FOR CAST STEEL PARTS OR ROLLED STEEL PARTS, AND METHOD FOR MANUFACTURING CAST STEEL PARTS OR ROLLED STEEL PARTS
(31) 2014190189	(22) 12.04.2019	(73) JFE Steel Corporation
(32) 18.09.2014	(54) LASER ASSISTED MACHINING OF SHEET MATERIAL	(72) MINEGUCHI Tomoyuki
(33) Japan	(73) IPG Photonics Corporation	MITSUZONO Masayuki
(51) B21D 5/02	(72) MUELLER, Steffen	MIYAHARA Hiroshi
B21D 37/04	LEV, Leonid C.	IWAKI Yozo
B21D 5/00	(31) 201862657242 P	(31) 2018207860
B21D 37/14	(32) 13.04.2018	(32) 05.11.2018
(11) EP3967418	(33) United States of America	(33) Japan
(21) EP20802965.2	(51) B21H 1/06	(51) B22D 29/00
(47) 12.07.2023	B66D 1/30	(11) EP3441159
(87) JP2020017160	B66D 1/36	(21) EP16901703.5
12.11.2020	(11) EP3691811	(47) 12.07.2023
(22) 21.04.2020	(21) EP18814815.9	(87) JP2016064310
(54) AUTOMATIC TOOL CHANGER AND TOOL CHANGE METHOD	(47) 12.07.2023	16.11.2017
(73) Amada Co., Ltd.	(87) EP2018082875	(22) 13.05.2016
(72) WATANABE, Katsumi	06.06.2019	(54) VIBRATING SAND SHAKING-OUT APPARATUS AND AUTOMOBILE COMPONENT
(31) 2019087387	(22) 28.11.2018	(73) Shiga Yamashita Co., Ltd.
(32) 07.05.2019	(54) ROPE DRUM AND METHOD FOR THE PRODUCTION THEREOF	(72) ICHIHASHI, Kaoru
(33) Japan	(73) Liebherr-Components Biberach GmbH	FUKUI, Mitsuru
(51) B21D 5/14	(72) RÜTTEN, Hubertus	(51) B22D 41/05
B21D 11/10	HAUSLADEN, Norbert	H05B 6/06
H01R 43/16	(31) 102017128163	(11) EP2207638
H01R 12/72	(32) 28.11.2017	(21) EP08837473.1
(11) EP3944907	(33) Germany	(47) 12.07.2023
(21) EP21186892.2	(51) B21J 15/04	(87) US2008079465
(47) 12.07.2023	B21J 15/10	16.04.2009
(22) 21.07.2021	B21J 15/32	(22) 10.10.2008
(54) TERMINAL BENDING EQUIPMENT	B24B 45/00	(54) SEMI-LIQUID METAL PROCESSING AND SENSING DEVICE AND METHOD OF USING SAME
(73) Jeilfa Co., Ltd.	B23B 31/107	(73) Ajax Tocco Magnethermic Corporation
(72) Go, Wang Sik	B25B 23/00	(72) KOCH, Alan, A.
(31) 20200092997	F16B 2/24	(31) 979511 P
(32) 27.07.2020	(11) EP3838438	(32) 12.10.2007
(33) Korea (Republic)	(21) EP20211825.3	(33) United States of America
(51) B21D 22/20	(47) 12.07.2023	(51) B22F 1/145
B21D 22/22	(22) 04.12.2020	B22F 3/04
B21D 25/00	(54) RIVET HOLDER	B22F 3/10
B21D 35/00	(73) Techtronic Cordless GP	B22F 9/02
B21D 37/16	(72) Lam, Chin Hung	B22F 9/04
(11) EP3778056	Lee, Kwan Wing	H01F 1/057
(21) EP19191762.4	(31) 19133746	C22C 38/00
(47) 12.07.2023	(32) 17.12.2019	C22C 38/06
(22) 14.08.2019	(33) Hong Kong	C22C 38/10
(54) METHOD FOR THERMOFORMING ALUMINIUM SHEETS BY MEANS OF STRETCH FORMING	(51) B21K 1/76	
(73) Umformtechnik Stade GmbH	(11) EP3694659	
(72) RUHR, Hilko	(21) EP18796138.8	
(51) B21D 28/10	(47) 12.07.2023	
	(87) JP2018037807	
	18.04.2019	
	(22) 10.10.2018	

C22C 38/14	B22F 7/08	(54) REAL-TIME ADAPTIVE CONTROL OF ADDITIVE MANUFACTURING PROCESSES USING MACHINE LEARNING
C22C 38/16	C22C 47/06	(73) Relativity Space, Inc.
(11) EP3819043	C22C 47/08	(72) MEHR, Edward
(21) EP20205474.8	C22C 49/06	NOONE, Jordan
(47) 12.07.2023	B22D 19/02	ELLIS, Tim
(22) 03.11.2020	B22D 19/14	(31) 201715604473
(54) METHOD FOR IMPROVING PERFORMANCE OF SINTERED NDFEB MAGNETS	B23P 15/04	(32) 24.05.2017
(73) Yantai Dongxing Magnetic Materials Inc.	F04D 29/02	(33) United States of America
(72) Chen, Xiulei	F04D 29/54	<hr/>
Xiang, Chunjie	F04D 29/32	(51) B22F 10/31
Peng, Zhongjie	B22C 9/06	B22F 12/41
Zhu, Xiaonan	B22C 9/22	B22F 12/49
Ding, Kaihong	(11) EP3991882	B29C 64/153
(31) 201911076518	(21) EP20306288.0	B33Y 50/02
(32) 06.11.2019	(47) 12.07.2023	B33Y 30/00
(33) China	(22) 27.10.2020	B22F 10/85
<hr/>	(54) METHOD FOR MANUFACTURING A BLADE FOR A TURBINE ENGINE	B22F 12/44
(51) B22F 3/105	(73) SAFRAN	B22F 12/90
C22C 1/10	Safran Aero Boosters	H01S 3/00
C22C 19/07	(72) LEFAUX, Yann Jean-Pierre	H01S 3/13
C22C 32/00	SALLOT, Pierre, Jean	G02B 7/02
(11) EP3609640	<hr/>	G02F 1/01
(21) EP18712703.0	(51) B22F 7/00	B22F 10/36
(47) 12.07.2023	F28D 15/02	(11) EP3814040
(87) SE2018050251	F28D 15/04	(21) EP19755677.2
20.09.2018	F28F 13/00	(47) 12.07.2023
(22) 14.03.2018	F28F 13/18	(87) IB2019055373
(54) HIGH CARBON CONTENT COBALT-BASED ALLOY	F28F 21/08	02.01.2020
(73) VBN Components AB	H01L 23/427	(22) 26.06.2019
(72) BESTE, Ulrik	H05K 7/20	(54) THERMO OPTICAL CONTROL OF FOCUS POSITION OF AN ENERGY BEAM IN AN ADDITIVE MANUFACTURING APPARATUS
(31) 1750300	(11) EP3620246	(73) Ahrlac Innovation Centre (Pty) Ltd
1750299	(21) EP19192694.8	CSIR
1750298	(47) 12.07.2023	(72) NAIDOO, Darryl
(32) 14.03.2017	(22) 20.08.2019	STRAUSS, Hencharl
14.03.2017	(54) METHOD FOR PRODUCING AN EVAPORATOR	(31) 201804309
14.03.2017	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	(32) 27.06.2018
(33) Sweden	(72) YAMASHITA, Seiji	(33) South Africa
Sweden	HIRONO, Shinsuke	<hr/>
Sweden	WATANABE, Masao	(51) B23B 29/04
<hr/>	KINOSHITA, Yohei	B23B 27/00
(51) B22F 3/15	HOSHINO, Yu	B23B 29/12
B22F 7/08	(31) 2018168230	B23B 27/08
B22F 5/00	(32) 07.09.2018	(11) EP3393704
C22C 29/02	(33) Japan	(21) EP16820364.4
C22C 29/06	<hr/>	(47) 12.07.2023
C22C 29/08	(51) B22F 10/12	(87) IL2016051326
C22C 29/10	B22F 10/18	29.06.2017
C22C 29/16	B22F 10/28	(22) 12.12.2016
B22F 7/06	B22F 10/38	(54) CUTTING TOOL HOLDER WITH VIBRATION-DAMPING WEIGHT ASSEMBLY
E21C 27/22	B22F 10/80	(73) Iscar Ltd.
E21B 10/573	B22F 10/85	(72) MEN, Ilya
E21B 10/12	B22F 12/90	SAFFOURI, Jony
(11) EP3656974	G05B 19/4099	ZAGAGY, Ofir
(21) EP18208080.4	B33Y 50/02	HECHT, Gil
(47) 12.07.2023	G06N 3/04	(31) 201514976442
(22) 23.11.2018	G06N 20/10	(32) 21.12.2015
(54) DISC CUTTER FOR UNDERCUTTING APPARATUS AND A METHOD OF MANUFACTURE THEREOF	G05B 13/04	(33) United States of America
(73) Sandvik Mining and Construction Tools AB	B22F 10/25	<hr/>
(72) SUNDSTRÖM, Johan	G06N 7/00	(51) B23B 31/30
CLAESSON, Björn	G06N 5/00	(11) EP3349931
BERGLUND, Tomas	G06N 3/08	(21) EP16787364.5
MEURLING, Fredrik	(11) EP3635640	(47) 12.07.2023
EDERYD, Stefan	(21) EP18806932.2	(87) EP2016074911
<hr/>	(47) 12.07.2023	
(51) B22F 5/04	(87) US2018034147	
	29.11.2018	
	(22) 23.05.2018	

20.04.2017	(72) TANI, Kohei	(54) METHOD FOR SCANNING
(22) 17.10.2016	ICHINOSE, Tomokazu	THE SURFACE OF METALLIC
(54) CLAMPING DEVICE FOR FIXING	(31) 2016130950	WORKPIECES
A TOOL IN A MACHINE TOOL AND	(32) 30.06.2016	(73) FRONIUS INTERNATIONAL GmbH
METHOD FOR MANUFACTURING THE	(33) Japan	(72) MAYER, Manuel
CLAMPING DEVICE	(51) B23D 63/12	WALDHÖR, Andreas
(73) Schunk GmbH & Co. KG Spann- und	B23D 61/12	BINDER, Manuel
Greiftechnik	B23D 65/00	(31) 19209712
(72) RETZBACH, Thomas	B23P 15/28	(32) 18.11.2019
CANTZ, Nico	B24B 3/58	(33) European Patent Office (EPO)
(31) 102015117590	B24B 7/12	(51) B23K 10/02
(32) 15.10.2015	(11) EP3804894	B23K 9/02
(33) Germany	(21) EP19814179.8	B23K 9/12
(51) B23C 5/10	(47) 12.07.2023	B23K 9/167
B23C 5/20	(87) JP2019021910	(11) EP3459668
(11) EP3532227	12.12.2019	(21) EP17193025.8
(21) EP17752132.5	(22) 03.06.2019	(47) 12.07.2023
(47) 12.07.2023	(54) CIRCULAR BAND SAW BLADE	(22) 25.09.2017
(87) EP2017070698	MANUFACTURING METHOD AND	(54) INERT GAS WELDING METHOD FOR
03.05.2018	MANUFACTURING METHOD AND	KEYHOLE WELDING
(22) 16.08.2017	APPARATUS	(73) Plasch, Siegfried
(54) METAL CUTTING INSERT FOR	(73) Amada Machinery Co., Ltd.	(72) Plasch, Siegfried
MILLING	Amada Co., Ltd.	(51) B23K 11/14
(73) Dormer Pramet s.r.o	(72) MAEDA Kensaku	B23K 11/30
(72) MIHÁLIK, Patrik	(31) 2018110240	F16B 35/04
(31) 16195578	(32) 08.06.2018	B23K 11/00
(32) 25.10.2016	(33) Japan	B23K 11/16
(33) European Patent Office (EPO)	(51) B23F 5/16	B23K 35/02
(51) B23D 21/00	B23F 15/00	F16B 37/06
B23D 21/02	(11) EP4028191	B23K 101/18
B23D 21/14	(21) EP20768049.7	B23K 103/04
B26D 3/16	(47) 12.07.2023	(11) EP3017903
(11) EP3288704	(87) EP2020075387	(21) EP14820353.2
(21) EP15890667.7	18.03.2021	(47) 12.07.2023
(47) 12.07.2023	(22) 10.09.2020	(87) JP2014063958
(87) FI2015050295	(54) METHOD FOR MANUFACTURING A	08.01.2015
03.11.2016	STEPPED GEAR MADE FROM ONE	(22) 27.05.2014
(22) 29.04.2015	WORKPIECE	(54) PROJECTION BOLT WELDING
(54) METHOD AND APPARATUS FOR	(73) VCST Industrial Products BVBA	METHOD
SHAPE CUTTING OF A PIPE END	(72) WILLEMS, Yves	(73) Aoyama, Shoji
(73) Larikka, Leo	(31) 2023814	(72) AOYAMA, Yoshitaka
(72) LARIKKA, Leo	(32) 11.09.2019	AOYAMA, Shoji
(51) B23D 47/04	(33) Netherlands	(31) 2013170770
B27B 31/08	(51) B23F 23/12	2013152065
B07C 5/12	B24B 53/12	(32) 01.08.2013
B07C 5/14	(11) EP3129181	02.07.2013
B07C 5/36	(21) EP15708517.6	(33) Japan
(11) EP3744457	(47) 12.07.2023	Japan
(21) EP20000187.3	(87) EP2015054803	(51) B23K 15/00
(47) 12.07.2023	15.10.2015	B23K 15/04
(22) 15.05.2020	(22) 09.03.2015	B23K 15/06
(54) DEVICE FOR SORTING WASTE	(54) METHOD AND DEVICES FOR THE	H05H 7/20
PIECES AT SAWS, PREFERABLY TO	RAPID AND FLEXIBLE DRESSING OF	B23K 101/04
OPTIMISING CUTTING SAWS	GRINDING WORMS	(11) EP3972771
(73) Weinig Dimter GmbH & Co. KG	(73) Reishauer AG	(21) EP20728692.3
(72) Locherer, Herbert	(72) WIRZ, Walter	(47) 12.07.2023
Schmid, Thomas	(31) 544142014	(87) EP2020064031
Reinbold, Georg	(32) 08.04.2014	26.11.2020
(31) 202019002325 U	(33) Switzerland	(22) 20.05.2020
(32) 24.05.2019	(51) B23K 9/127	(54) ELECTRON BEAM WELDING
(33) Germany	B23K 9/235	APPARATUS
(51) B23D 61/02	B23K 9/32	(73) TECHMETA ENGINEERING SAS
(11) EP3263259	(11) EP4061572	(72) Oving, Peter
(21) EP16199619.4	(21) EP20804304.2	(31) 1905311
(47) 12.07.2023	(47) 12.07.2023	(32) 21.05.2019
(22) 18.11.2016	(87) EP2020082327	(33) France
(54) TIP SAW FOR COMPOSITE MATERIAL	27.05.2021	(51) B23K 20/10
(73) Tanitec Corporation	(22) 17.11.2020	B23K 20/233

(11) EP4076822	(32) 29.03.2013	(11) EP3659741
(21) EP20800629.6	25.04.2012	(21) EP19212303.2
(47) 12.07.2023	(33) Japan	(47) 12.07.2023
(87) EP2020080621	Japan	(22) 28.11.2019
24.06.2021	(51) B23K 26/21	(54) MULTI-COMPONENT ASSEMBLED
(22) 02.11.2020	B23K 26/067	HYDROSTATIC SEAL
(54) WELDING DEVICE AND WELDING	B23K 26/70	(73) Raytheon Technologies Corporation
METHOD FOR PRODUCING AN	B23K 26/06	(72) VIRKLER, Scott D.
INTEGRALLY BONDED CONNECTION	(11) EP3302868	MCCAFFREY, Michael G.
BETWEEN A CONDUCTOR AND A	(21) EP16808024.0	(31) 201816202836
CONNECTION PART	(47) 12.07.2023	(32) 28.11.2018
(73) Auto-Kabel Management GmbH	(87) US2016034354	(33) United States of America
(72) SEBETLELA, Kabelo	15.12.2016	(51) B23P 19/06
(31) 102019134763	(22) 26.05.2016	F16B 31/02
(32) 17.12.2019	(54) MULTIBEAM LASER SYSTEM AND	B25B 23/14
(33) Germany	METHOD FOR WELDING	G01L 5/00
(51) B23K 20/12	(73) IPG Photonics Corporation	B25B 29/02
(11) EP4010144	(72) YAGODKIN, Dimitri	F16B 31/04
(21) EP20771610.1	MAMEROW, Holger	F16B 35/00
(47) 12.07.2023	FOMIN, Valentin	G01L 5/24
(87) IB2020000660	SCHERBAKOV, Eugene	F16B 5/02
18.02.2021	ABRAMOV, Andrey	(11) EP3763478
(22) 10.08.2020	(31) 201562166658 P	(21) EP19897291.1
(54) METHOD OF MANUFACTURING	(32) 26.05.2015	(47) 12.07.2023
BIMETALLIC LINED PIPES AND SUCH	(33) United States of America	(87) JP2019018435
PIPES	(51) B23K 35/02	18.06.2020
(73) Acergy France SAS	B23K 35/28	(22) 08.05.2019
(72) TOGUYENI, Grégory Alexandre	B23K 35/30	(54) NUT AND BOLT TIGHTENING METHOD
(31) 201911451	B23K 35/36	AND TIGHTENING DEVICE
(32) 09.08.2019	B23K 9/173	(73) Tohnichi MFG. Co., Ltd.
(33) United Kingdom	C22C 21/02	Shibaura Institute of Technology
(51) B23K 20/16	C22C 21/08	(72) ITO, Seiji
B23K 20/227	C22C 21/10	HASHIMURA, Shinji
C21D 6/00	C22C 21/14	KOMATSU, Kyoichi
C22C 30/00	C22C 21/16	OGATA, Tomohiro
C22C 38/02	C22C 21/18	(31) 2018231380
B23K 101/18	C22C 38/00	(32) 11.12.2018
B23K 101/34	C22C 38/02	(33) Japan
B23K 103/04	C22C 38/04	(51) B23Q 7/10
B23K 103/18	C22C 38/06	A61C 13/00
B23K 9/02	C22C 38/14	B08B 5/00
B23K 9/16	C22C 38/16	B23Q 7/14
B23K 9/23	C22C 38/34	B23Q 11/00
B23K 35/30	C22C 38/42	B23Q 11/08
B23K 20/04	C22C 38/44	(11) EP4019187
B32B 15/01	(11) EP3323546	(21) EP21216936.1
C22C 38/00	(21) EP17001774.3	(47) 12.07.2023
C22C 38/04	(47) 12.07.2023	(22) 22.12.2021
C22C 38/44	(22) 27.10.2017	(54) CUTTING MACHINE WITH A
C22C 38/54	(54) A CONSUMABLE METAL-CORED	CLEANING CHAMBER
C21D 8/02	WELDING WIRE, A METHOD OF	(73) DGSHAPE Corporation
(11) EP2843076	METAL ARC WELDING AND A SYSTEM	(72) Dodo, Shinpei
(21) EP13782090.8	THEREFORE	(31) 2020216225
(47) 12.07.2023	(73) Lincoln Global, Inc.	(32) 25.12.2020
(87) JP2013002658	(72) SCHAEFFER, Ben J.	(33) Japan
31.10.2013	NARAYANAN, Badri K.	(51) B23Q 11/08
(22) 19.04.2013	PETERS, Steven R.	B23B 7/06
(54) STAINLESS-STEEL-CLAD STEEL	(31) 201615353520	B23B 13/12
PLATE AND PROCESS FOR	(32) 16.11.2016	B23B 25/04
PRODUCING THEREOF	(33) United States of America	B23Q 5/40
(73) JFE Steel Corporation	(51) B23P 15/00	(11) EP3354401
(72) KURONUMA, Yota	F01D 11/02	(21) EP16889335.2
TACHIBANA, Shunichi	F16J 15/44	(47) 12.07.2023
YAZAWA, Yoshihiro	F01D 11/00	(87) JP2016075333
KISHI, Keiichiro	F01D 11/08	10.08.2017
HOSHINO, Toshiyuki	F16J 15/447	(22) 30.08.2016
(31) 2013071281	B22F 5/00	(54) MACHINE TOOL
2012099681	B33Y 80/00	(73) Star Micronics Co., Ltd.

(72) ITO, Shin	Reggiani, Andrea	(51) B25B 5/06
(31) 2016016819	(31) 202000024547	B25B 5/12
(32) 01.02.2016	(32) 19.10.2020	B25B 5/16
(33) Japan	(33) Italy	(11) EP3860806
(51) B23Q 17/22	(51) B24B 13/005	(21) EP19787104.9
G01B 21/04	(11) EP3585562	(47) 12.07.2023
G05B 19/401	(21) EP18707671.6	(87) JP2019038453
(11) EP3674033	(47) 12.07.2023	09.04.2020
(21) EP19214318.8	(87) EP2018054099	(22) 30.09.2019
(47) 12.07.2023	30.08.2018	(54) CLAMPING DEVICE
(22) 07.12.2019	(22) 20.02.2018	(73) SMC Corporation
(54) METHOD FOR DETERMINING	(54) BLOCKING OF LENSES	(72) SEO Takeshi
TOPOGRAPHY OF A TOOL MACHINE	(73) Schneider GmbH & Co. KG	(31) 2018189995
(73) Schwäbische Werkzeugmaschinen	(72) HUTTENHUIS, Stephan	(32) 05.10.2018
GmbH	SCHNEIDER, Benjamin	(33) Japan
(72) Baur, Johannes	SCHNEIDER, Gunter	(51) B25B 23/12
(31) 102019104604	(31) 102017001794	B25B 23/00
102018133628	(32) 24.02.2017	B25B 13/46
(32) 22.02.2019	(33) Germany	F16D 41/08
27.12.2018	(51) B24B 27/08	F16D 41/064
(33) Germany	B24B 55/05	(11) EP3681676
Germany	B24B 55/10	(21) EP18855457.0
(51) B23Q 17/24	B25F 5/02	(47) 12.07.2023
B23Q 3/06	(11) EP3484661	(87) US2018050492
G05B 19/19	(21) EP17710719.0	21.03.2019
G06T 7/62	(47) 12.07.2023	(22) 11.09.2018
G06T 7/73	(87) EP2017055779	(54) SOCKET WRENCH
(11) EP3689540	18.01.2018	(73) Albertson Enterprises, LLC
(21) EP18863092.5	(22) 13.03.2017	(72) ALBERTSON, Robert V.
(47) 12.07.2023	(54) SUCTION HOOD FOR MACHINE TOOL	(31) 201762557474 P
(87) JP2018036466	(73) HILTI Aktiengesellschaft	(32) 12.09.2017
04.04.2019	(72) OHLENDORF, Oliver	(33) United States of America
(22) 28.09.2018	(31) 16179675	(51) B25C 1/04
(54) ON-MACHINE MEASURING METHOD	(32) 15.07.2016	B25C 1/10
AND CONTROL DEVICE OF MACHINE	(33) European Patent Office (EPO)	(11) EP3822029
TOOL	(51) B24C 1/10	(21) EP19209318.5
(73) Makino Milling Machine Co., Ltd.	B24C 3/18	(47) 12.07.2023
(72) ISHII, Kazunari	B24C 7/00	(22) 15.11.2019
KASAHARA, Tadashi	B33Y 40/20	(54) A FASTENING TOOL
(31) 2017190997	B24C 1/08	(73) Illinois Tool Works Inc.
(32) 29.09.2017	C21D 7/06	(72) Simonin, Jean-Luc
(33) Japan	G01N 15/06	(51) B25F 5/00
(51) B23Q 39/04	G01N 15/00	G05B 19/418
(11) EP3953101	(11) EP3666460	G06F 21/10
(21) EP20721737.3	(21) EP19212501.1	(11) EP3898119
(47) 12.07.2023	(47) 12.07.2023	(21) EP19805596.4
(87) IB2020053241	(22) 29.11.2019	(47) 12.07.2023
15.10.2020	(54) SYSTEM AND METHOD FOR	(87) EP2019081109
(22) 05.04.2020	MANAGING ABRASIVE MEDIA LEVELS	25.06.2020
(54) NUMERICAL CONTROL TOOL	IN CAVITATED FLUID	(22) 13.11.2019
MACHINE	(73) The Boeing Company	(54) A METHOD, A TOOL CONTROLLER
(73) TECNO LOGICA S.R.L.	(72) SANDERS, Daniel G	AND COMPUTER PROGRAM TO
(72) PIASENTIN, Mirko	(31) 201816221019	ENABLE DIFFERENT FUNCTIONALITY
(31) 201900005392	(32) 14.12.2018	SETS FOR AT LEAST A FIRST AND A
(32) 08.04.2019	(33) United States of America	SECOND TOOL ASSOCIATED WITH A
(33) Italy	(51) B24D 13/14	TOOL CONTROLLER
(51) B24B 7/28	B24D 7/06	(73) Atlas Copco Industrial Technique AB
B24B 19/24	B24D 7/14	(72) CONNING, Osborn
(11) EP3984696	(11) EP3421180	WÄHLIN, Erik
(21) EP21202814.6	(21) EP17178980.3	KARLSSON, Robert
(47) 12.07.2023	(47) 12.07.2023	(31) 1830362
(22) 15.10.2021	(22) 30.06.2017	(32) 17.12.2018
(54) SANDING MACHINE FOR WOODEN	(54) POLISHING PAD OF A HAND-HELD	(33) Sweden
PRODUCTS AND RESPECTIVE	POWER TOOL AND POWER TOOL	(51) B25F 5/00
SANDING TOOL	WITH SUCH A POLISHING PAD	H02P 6/24
(73) Angeloni, Marino	(73) Valentini, Guido	B25B 21/02
Reggiani, Andrea	(72) Valentini, Guido	B25D 16/00
(72) Angeloni, Marino		(11) EP3700713



(21) EP18870466.2	(73) Kabushiki Kaisha Yaskawa Denki	(87) EP2013002215
(47) 12.07.2023	(72) KAKISAKA, Yoichi	30.01.2014
(87) US2018057534	MORISAKI, Keita	(22) 25.07.2013
02.05.2019	SAWADA, Yukiko	(54) CHARGING SYSTEM AND METHOD
(22) 25.10.2018	KARIYAZAKI, Hirokazu	FOR ELECTRICALLY CHARGING A
(54) KICKBACK CONTROL METHODS FOR	NAGASAKI, Takashi	MOTOR VEHICLE
POWER TOOLS	HASHIGUCHI, Yukio	(73) KUKA Deutschland GmbH
(73) Milwaukee Electric Tool Corporation	(31) 2017066720	(72) SETTELE, Norbert
(72) SUHR, Benjamin, R.	(32) 30.03.2017	(31) 102012014936
ABBOTT, Jonathan, E.	(33) Japan	(32) 27.07.2012
RYER, Richard, A.	(51) B25J 9/16	(33) Germany
FIELDBINDER, Douglas, R.	B25J 9/04	(51) B25J 11/00
OBERMANN, Timothy, R.	(11) EP3990233	F16H 21/48
MERGET, Maxwell, L.	(21) EP20761975.0	B25J 5/04
DEY, John, S.	(47) 12.07.2023	B25J 9/00
(31) 201862686719 P	(87) US2020046217	B25J 15/00
201762577594 P	18.02.2021	(11) EP3466615
(32) 19.06.2018	(22) 13.08.2020	(21) EP17806460.6
26.10.2017	(54) INVERSE KINEMATIC SOLVER FOR	(47) 12.07.2023
(33) United States of America	WRIST OFFSET ROBOTS	(87) JP2017019196
United States of America	(73) Intrinsic Innovation LLC	07.12.2017
(51) B25H 1/16	(72) DUPUIS, Jean-Francois	(22) 23.05.2017
B25H 1/18	(31) 201916541541	(54) WORKING DEVICE USING PARALLEL
B25H 1/04	(32) 15.08.2019	LINK MECHANISM
(11) EP2707178	(33) United States of America	(73) NTN Corporation
(21) EP12724895.3	(51) B25J 9/16	(72) ISOBE, Hiroshi
(47) 12.07.2023	G01B 5/008	KONAGAI, Naoya
(87) EP2012002010	B25J 13/08	(31) 2016107198
15.11.2012	B25J 19/02	(32) 30.05.2016
(22) 10.05.2012	B25J 9/02	(33) Japan
(54) TOOL TROLLEY	(11) EP3825071	(51) B25J 15/00
(73) GEA Food Solutions Germany GmbH	(21) EP20207782.2	B25J 15/04
(72) RUNTE, Frank	(47) 12.07.2023	B25J 13/08
HÜBNER, Gerd	(22) 16.11.2020	B25J 15/02
FRIES, Alexander	(54) TRAJECTORY CONTROL DEVICE	B65B 21/12
THOMAS, Ulrich	(73) SMC Corporation	B65G 47/90
NIESAR, Jürgen	(72) WAKISAKA, Shinji	B29C 49/78
(31) 102011101093	YASUDA, Hikaru	B65B 3/00
(32) 10.05.2011	OGUMA, Kazuyuki	B65B 43/46
(33) Germany	(31) 2019211058	(11) EP3445540
(51) B25J 9/00	(32) 22.11.2019	(21) EP17786559.9
G01B 11/00	(33) Japan	(47) 12.07.2023
G01B 11/26	(51) B25J 9/16	(87) US2017028377
G01G 19/414	G05B 19/401	26.10.2017
G01G 19/52	(11) EP3837095	(22) 19.04.2017
H04N 1/10	(21) EP18759129.2	(54) CONTAINER GRIPPER ASSEMBLY
(11) EP3349951	(47) 12.07.2023	(73) AGR International, Inc.
(21) EP15766453.3	(87) EP2018073415	(72) SCHMIDT, William E.
(47) 12.07.2023	20.02.2020	FLEEGER, George
(87) EP2015071289	(22) 31.08.2018	FLEEGER, Jeremy
23.03.2017	(54) METHOD OF PROGRAMMING AN	HARKLEROAD, William
(22) 17.09.2015	INDUSTRIAL ROBOT	DI ZINNO, Paul
(54) A COMPONENT FEEDER AND A	(73) ABB Schweiz AG	(31) 201662325278 P
SYSTEM FOR PICKING COMPONENTS	(72) CLEVER, Debora	(32) 20.04.2016
COMPRIHING THE COMPONENT	DAI, Fan	(33) United States of America
FEEDER	(31) PCT/EP2018/071870	(51) B25J 19/00
(73) ABB Schweiz AG	(32) 13.08.2018	B25J 21/00
(72) FRANSSON, Peter	(33) World Intellectual Property Office (WIPO)	F16J 15/32
SIRKETT, Daniel	(51) B25J 11/00	(11) EP3548230
(51) B25J 9/16	B25J 13/08	(21) EP16923318.6
(11) EP3398730	B60L 53/14	(47) 12.07.2023
(21) EP18162603.7	B60L 53/16	(87) CN2016108582
(47) 12.07.2023	B60L 53/35	14.06.2018
(22) 19.03.2018	B60L 53/37	(22) 05.12.2016
(54) METHOD OF GENERATING ROBOT	H01R 43/26	(54) SEALING ARRANGEMENT FOR USE IN
OPERATION COMMAND, ROBOT	(11) EP2877365	ROBOT JOINT
OPERATION COMMAND GENERATION	(21) EP13742161.6	(73) ABB Schweiz AG
DEVICE, AND COMPUTER PROGRAM	(47) 12.07.2023	(72) CAO, Xiaodong

LIANG, Linjian GONG, Yuhong FU, Xinguo HA, Yun	PETERS, Steffen EL. GENDY, Marco KURTZ, Bastian ELSNER, Sascha KLINDWORTH, Jan-Hinrich BUSCH, Thomas	(32) 15.03.2012 18.11.2011 (33) United States of America United States of America
(51) B26B 5/00 (11) EP3674042 (21) EP18932627.5 (47) 12.07.2023 (87) CN2018105711 12.03.2020 (22) 14.09.2018 (54) UTILITY KNIFE (73) Ningbo Hongdi Measuring Tape Industry Co., Ltd (72) ZHOU, Xiaogang (31) 201811037339 201821455434 U (32) 06.09.2018 06.09.2018 (33) China China	(31) 102019100755 (32) 14.01.2019 (33) Germany (51) B26D 5/32 B26D 5/34 B26D 5/00 B26D 5/08 B26D 5/42 B26D 7/00 B26D 7/01 B26D 7/08 A22C 17/00 B26D 1/36 B26D 1/02 B26D 1/157 B26D 1/16 B26D 1/143 B26D 7/06 B26D 7/22 B26D 7/32 B26D 7/30 B26D 7/18 B26D 7/24	(51) B27G 13/10 B27G 13/04 (11) EP3797020 (21) EP19759444.3 (47) 12.07.2023 (87) IT2019050187 05.03.2020 (22) 20.08.2019 (54) CUTTING MILL COMPRISING A BLOCKING DEVICE FOR CUTTING KNIVES (73) TWT S.r.l. (72) PELLITTERI, Filippo GALVAGNI, Fulvio (31) 201800008191 (32) 27.08.2018 (33) Italy
(51) B26B 19/04 B26B 19/38 B26B 19/40 B26B 19/42 (11) EP3366435 (21) EP18155953.5 (47) 12.07.2023 (22) 09.02.2018 (54) OUTER BLADE FOR HAIR CUTTING DEVICE AND HAIR CUTTING DEVICE (73) Panasonic Intellectual Property Management Co., Ltd. (72) SHIMIZU, Hiroaki SAKON, Shigetoshi INOUE, Hiroki OKURA, Shoki MATSUO, Shintaro (31) 2017034087 (32) 24.02.2017 (33) Japan	(11) EP3827946 (21) EP20215971.1 (47) 12.07.2023 (22) 22.10.2008 (54) FOOD ARTICLE HIGH SPEED SLICING MACHINE (73) Formax, Inc. (72) Lamartino, Salvatore Lindee, Scott A. Pasek, James E. Sandberg, Glenn Hancock, David Hansen, David Wolcott, Thomas C.	(51) B27G 21/00 B27L 7/00 (11) EP3842201 (21) EP20213338.5 (47) 12.07.2023 (22) 11.12.2020 (54) A LOG SPLITTER WITH A MECHANICAL WINCH AND OPERATION METHOD (73) Pisek - Vitli Krpan, d.o.o. (72) Pisek, Franc (31) 201900247 (32) 13.12.2019 (33) Slovenia
(51) B26B 19/14 (11) EP4041506 (21) EP20789011.2 (47) 12.07.2023 (87) EP2020077278 15.04.2021 (22) 30.09.2020 (54) HAIR-CUTTING UNIT FOR USE IN A HAIR-CUTTING APPLIANCE (73) Koninklijke Philips N.V. (72) PRAGT, Johan JENKINS, Michael Reece KLEIN HORSMAN, Martijn Dirk VAN DIEST, Mike (31) 19202866 (32) 11.10.2019 (33) European Patent Office (EPO)	(31) 255661 202 P 999961 P (32) 21.10.2008 23.10.2007 22.10.2007 (33) United States of America United States of America United States of America (51) B26D 7/06 B25J 15/06 (11) EP3620280 (21) EP19201380.3 (47) 12.07.2023 (22) 16.11.2012 (54) ZONED ACTIVATION MANUFACTURING VACUUM TOOL (73) NIKE Innovate C.V. (72) LEE, Kuo-Hung LIAO, Chang-Chu JEAN, Ming-Feng CHANG, Chih-Chi REGAN, Patrick Conall (31) 201213421521 201113299934	(51) B27K 3/02 B27K 3/08 B27K 3/36 B27K 3/50 B27K 5/00 C07C 67/00 (11) EP3934869 (21) EP20859629.6 (47) 12.07.2023 (87) SI2020050029 01.07.2021 (22) 22.12.2020 (54) A PROCESS OF WOOD MINERALIZATION USING ACETOACETATE SOLUTIONS TO IMPROVE THE ESSENTIAL PROPERTIES OF WOOD (73) Zavod za Gradbenstvo Slovenije (72) SEVER SKAPIN, Andriana PAZLAR, Tomaz KNEZ, Friderik PONDELAK, Andreja REPIC, Rozle KNEZ, Natasa LEGAT, Andraz SKRLEP, Luka (31) 202000239 201900260 (32) 16.12.2020 24.12.2019 (33) Slovenia Slovenia
(51) B26D 1/24 (11) EP3680078 (21) EP20150666.4 (47) 12.07.2023 (22) 08.01.2020 (54) DEVICE AND METHOD FOR PRODUCING A STRAND FOR THE TOBACCO PROCESSING INDUSTRY (73) Körber Technologies GmbH (72) BLEWONSKA, Jan	(51) B26D 7/06 B25J 15/06 (11) EP3620280 (21) EP19201380.3 (47) 12.07.2023 (22) 16.11.2012 (54) ZONED ACTIVATION MANUFACTURING VACUUM TOOL (73) NIKE Innovate C.V. (72) LEE, Kuo-Hung LIAO, Chang-Chu JEAN, Ming-Feng CHANG, Chih-Chi REGAN, Patrick Conall (31) 201213421521 201113299934	(51) B27N 1/00

B27N 3/04	(87) US2017050885	(21) EP21200551.6
D04H 1/04	15.03.2018	(47) 12.07.2023
B27K 3/15	(22) 11.09.2017	(22) 01.10.2021
B29C 51/00	(54) ENHANCEMENT OF REINFORCING	(54) METHOD AND PLANT FOR THE
C08J 5/06	FIBERS, THEIR APPLICATIONS, AND	PRODUCTION OF POLYMER
D04H 1/00	METHODS OF MAKING SAME	ADHESIVES
B27N 5/00	(73) Forta, LLC	(73) Galbiati, Pietro
(11) EP3774243	(72) LOVETT, Christopher P.	(72) Galbiati, Irina
(21) EP19781240.7	BIDDLE, Daniel T.	(31) 202000023161
(47) 12.07.2023	(31) 201662385410 P	(32) 01.10.2020
(87) IB2019052710	(32) 09.09.2016	(33) Italy
10.10.2019	(33) United States of America	(51) B29B 7/00
(22) 03.04.2019	(51) B28B 1/26	B29B 7/94
(54) METHOD FOR MANUFACTURING	B28B 13/02	B29B 9/16
A DRY-LAID MAT FOR	B28B 13/06	C08F 6/00
THERMOFORMING	(11) EP3915744	C08K 5/14
(73) Stora Enso Oyj	(21) EP21176249.7	C08J 3/205
(72) TÖRNBLÖM, Maria	(47) 12.07.2023	B29B 7/74
PYNNÖNEN, Janne	(22) 27.05.2021	C08K 5/00
MAYES, Duncan	(54) BATTERY PRESSURE CASTING OF	(11) EP3604398
(31) 1850372	CERAMIC HOLLOW BODIES	(21) EP18187401.7
(32) 04.04.2018	(73) Lippert GmbH & Co. KG	(47) 12.07.2023
(33) Sweden	(72) Seer, Alois	(22) 04.08.2018
(51) B27N 3/04	(31) 102020114348	(54) METHOD FOR PRODUCING HIGH
B27N 3/18	(32) 28.05.2020	HOMOGENEITY CROSSLINKABLE
B32B 5/16	(33) Germany	POLYETHYLENE
B32B 5/22	(51) B28B 3/00	(73) Petkim Petrokimya Holding Anonim
B32B 5/24	B28B 3/02	Sirketi
B32B 5/30	B30B 15/02	(72) EZDESIR, Ayhan
B32B 7/08	(11) EP3496919	(51) B29C 44/32
B32B 7/12	(21) EP17748754.3	B29K 75/00
B32B 13/04	(47) 12.07.2023	C08G 18/18
B32B 13/12	(87) EP2017069716	C08J 9/00
B32B 21/02	15.02.2018	F16L 59/14
B32B 27/26	(22) 03.08.2017	B29C 44/02
B32B 29/04	(54) PRESS DIE FOR PRODUCING A ROOF	C08J 9/14
B32B 3/06	TILE	C08G 18/09
B32B 3/30	(73) BMI Deutschland GmbH	C08G 18/42
B32B 7/05	(72) WINTER, Frank	C08G 18/40
(11) EP3687750	(31) 102016114653	C08G 18/76
(21) EP18797099.1	(32) 08.08.2016	C08G 18/50
(47) 12.07.2023	(33) Germany	C08G 18/48
(87) IB2018057461	(51) B28B 3/02	C08G 18/02
04.04.2019	B28B 11/24	C08G 18/16
(22) 26.09.2018	C04B 28/12	C08G 18/20
(54) BOARD AND METHOD FOR	C04B 40/02	C08G 18/22
MANUFACTURING A BOARD.	C04B 28/10	(11) EP3947501
(73) Flooring Industries Limited, SARL	(11) EP3603911	(21) EP20713919.7
(72) CLEMENT, Benjamin	(21) EP18777613.3	(47) 12.07.2023
(31) 201762564719 P	(47) 12.07.2023	(87) EP2020059178
PCT/IB2018/051903	(87) JP2018013373	08.10.2020
(32) 28.09.2017	04.10.2018	(22) 31.03.2020
21.03.2018	(22) 29.03.2018	(54) INSULATED PIPE, COMPRISING
(33) United States of America	(54) MOLDED BODY USING HYDRAULIC	AN ENVIRONMENTALLY-
World Intellectual Property Office (WIPO)	LIME AND METHOD FOR PRODUCING	FRIENDLY PROPELLANT BLOWN
(51) B27N 3/04	SAME	POLYURETHANE FOAM WITH LOW
B29C 70/08	(73) Kusunoki Sekkai Co. Ltd.	FRIABILITY
D01F 1/10	(72) IKEDA, Katsutoshi	(73) BASF SE
D01D 5/08	(31) 2017065446	(72) TOMASI, Gianpaolo
D01F 6/04	(32) 29.03.2017	GRIESER-SCHMITZ, Christof
E04C 5/07	(33) Japan	POPOV, Alex
C04B 20/00	(51) B29B 7/00	LAUBGAN, Roman
C04B 28/02	B29B 7/82	ELLERSIEK, Carsten
C04B 111/34	B29B 7/24	(31) 19166869
D01F 8/06	B29B 7/28	(32) 02.04.2019
(11) EP3510188	B29B 7/60	(33) European Patent Office (EPO)
(21) EP17849700.4	B29B 7/72	(51) B29C 45/14
(47) 12.07.2023	(11) EP3978213	B29C 45/00

B29C 70/12	(54) MOLD LATCH AND MOLD HAVING	CHO, Young Chan
B29K 101/12	MOLD LATCH	YOU, Young Jin
B29L 31/34	(73) DME Company LLC	JANG, Kyeong Hoon
(11) EP3705257	(72) Cheng, Peng	PARK, Sang Hyeon
(21) EP18872505.5	(31) 202063053893 P	KIM, Il Sang
(47) 12.07.2023	(32) 20.07.2020	KIM, Hee Seok
(87) JP2018039883	(33) United States of America	LEE, Wook Hee
09.05.2019	(51) B29C 45/27	AN, Jae Hyun
(22) 26.10.2018	B29C 45/17	JUNG, Yong Woo
(54) WATERPROOF COMPONENT AND	B29C 45/20	CHOI, Ik Keun
ELECTRONIC EQUIPMENT PROVIDED	B29C 45/16	HAN, In Soo
WITH THE SAME, METHOD FOR	(11) EP3548249	(31) 20200084666
WATERPROOFING AN INSERT	(21) EP17876686.1	(32) 09.07.2020
MOLDED BODY, AND METHOD FOR	(47) 12.07.2023	(33) Korea (Republic)
WATERPROOFING ELECTRONIC	(87) CA2017051327	(51) B29C 48/09
EQUIPMENT	07.06.2018	B29C 48/152
(73) Kuraray Co., Ltd.	(22) 08.11.2017	B29C 48/90
(72) ITO, Yuki	(54) CHANNEL GEOMETRY FOR	B29C 48/14
SHIGEMATSU, Takaharu	PROMOTING AT LEAST ONE OF	B29C 63/06
SUGAI, Naoto	A UNIFORM VELOCITY PROFILE	B29C 48/275
(31) 2017208765	AND A UNIFORM TEMPERATURE	(11) EP3512684
(32) 30.10.2017	PROFILE FOR AN ANNULAR OR PART-	(21) EP17784386.9
(33) Japan	ANNULAR MELT FLOW	(47) 12.07.2023
(51) B29C 45/14	(73) Husky Injection Molding Systems	(87) IB2017055515
B44C 5/00	Luxembourg IP Development S.à.r.l	22.03.2018
B44C 5/04	(72) GROVE, Wesley	(2) 13.09.2017
B29K 703/06	ULEMEK, Adam Christopher	(54) METHOD AND DEVICE FOR
B29K 703/08	BRELSKI, Maciej	EXTRUDING AND LABELLING A
B29K 709/00	FERENC, Stephen Daniel	CYLINDRICAL PRODUCT
B29K 711/10	(31) 201662428585 P	(73) Aisapack Holding SA
B29L 31/30	(32) 01.12.2016	(72) REY, Eduardo
B29L 31/00	(33) United States of America	THOMASSET, Jacques
(11) EP3976337	(51) B29C 45/76	(31) 16188491
(21) EP20742416.9	B29C 45/84	(32) 13.09.2016
(47) 12.07.2023	B29C 45/17	(33) European Patent Office (EPO)
(87) HU2020000018	(11) EP3842211	(51) B29C 48/12
03.12.2020	(21) EP20217280.5	B29C 48/87
(22) 21.05.2020	(47) 12.07.2023	B29L 31/00
(54) INJECTION-MOULDED PART AND	(22) 24.12.2020	B29C 48/11
METHOD FOR PRODUCING THE	(54) INJECTION MOLDING MACHINE	B29C 48/30
INJECTION-MOULDED PART	(73) Sumitomo Heavy Industries, Ltd.	(11) EP3831569
(73) GUDLIN, Zsófia	(72) ISHII, Tsutomu	(21) EP20210983.1
(72) GUDLIN, Zsófia	(31) 2019239811	(47) 12.07.2023
(31) 1900182	(32) 27.12.2019	(22) 01.12.2020
(32) 24.05.2019	(33) Japan	(54) METHOD FOR PRODUCING A
(33) Hungary	(51) B29C 48/00	PLASTIC PROFILE
(51) B29C 45/16	B29C 48/09	(73) REHAU Industries SE & Co. KG
G01D 11/24	B29C 48/151	(72) Krüger, Carsten
H01L 23/31	B29C 48/21	Janssen, Wolfgang
H01L 21/56	B29C 53/58	Rinck, Kay-Jochen
B29C 45/14	B29C 53/76	Sander, Ralf
(11) EP3687758	B29C 53/56	Frohmadler, Martin
(21) EP18815443.9	B29C 70/08	Stenitschka, Michael
(47) 12.07.2023	B29D 23/00	(31) 102019133348
(87) US2018061597	B60K 37/00	(32) 06.12.2019
22.05.2020	B62D 1/16	(33) Germany
(22) 16.11.2018	B62D 29/04	(51) B29C 48/12
(54) TWO-STEP MOLDING FOR A LEAD	(11) EP3936302	B29C 48/87
FRAME	(21) EP20216794.6	B29L 31/00
(73) Hewlett-Packard Development Company,	(47) 12.07.2023	B29C 48/11
L.P.	(22) 23.12.2020	B29C 48/30
(72) CHEN, Chien-Hua	(54) METHOD FOR MANUFACTURING	(11) EP3831570
CUMBIE, Michael W	LIGHTWEIGHT COWL CROSSBAR	(21) EP20211025.0
(51) B29C 45/26	(73) Kia Corporation	(47) 12.07.2023
(11) EP3943272	Hyundai Mobis Co., Ltd.	(22) 01.12.2020
(21) EP21186367.5	LG Hausys, Ltd.	(54) METHOD FOR PRODUCING A
(47) 12.07.2023	HYUNDAI MOTOR COMPANY	PLASTIC PROFILE
(22) 19.07.2021	(72) JUNG, Ik Jin	(73) REHAU Industries SE & Co. KG

(72) Frohmader, Martin Stenitschka, Michael Rinck, Kay-Jochen Janssen, Wolfgang Krüger, Carsten Sander, Ralf	(31) 102018111763 (32) 16.05.2018 (33) Germany	(11) EP4031350 (21) EP20771885.9 (47) 12.07.2023
(31) 102019133360 (32) 06.12.2019 (33) Germany	(51) B29C 48/92 B29C 48/08 B29C 48/31	(87) EP2020076118 25.03.2021 (22) 18.09.2020
(31) 102019133360 (32) 06.12.2019 (33) Germany	(11) EP3793799 (21) EP19725087.1 (47) 12.07.2023	(54) MOULDING UNIT WITH LOCKING BY MEANS OF HOOKS (73) Sidel Participations
(51) B29C 48/36 B29B 7/32 B29C 48/87 B29C 48/09 B29C 48/21 B29C 48/82 B29C 48/88 B29C 48/32 B29K 23/00	(87) EP2019062429 21.11.2019 (22) 15.05.2019 (54) METHOD FOR AUTOMATICALLY REGULATING THE SIZE OF A SLOT OF A NOZZLE ASSEMBLY AND CONTROL AND/OR REGULATION SYSTEM	(72) SAVARY, Cyrille (31) 1910311 (32) 19.09.2019 (33) France
(11) EP3444097 (21) EP18188381.0 (47) 12.07.2023 (22) 10.08.2018 (54) METHOD FOR THE MANUFACTURE OF A TUBE	(73) Windmüller & Hölscher KG (72) SCHMITZ, Torsten GROEPPER, Bernd-Alexander FAUSTMANN, Daniel COLELL, Waldemar	(11) EP4048502 (21) EP20793392.0 (47) 12.07.2023 (87) EP2020080017 29.04.2021
(73) Promix Solutions AG (72) Heusser, Rolf (31) 17186501 (32) 16.08.2017 (33) European Patent Office (EPO)	(31) 102018111764 (32) 16.05.2018 (33) Germany	(22) 26.10.2020 (54) DEVICE FOR CONTROLLING THE MOVEMENT OF A MOVABLE ELEMENT FOR A MACHINE FOR MANUFACTURING PLASTIC RECEPTACLES
(51) B29C 48/38 B29C 48/44 B29L 31/00 H01M 10/04 B29K 105/04	(51) B29C 49/06 B29C 49/78 H02K 41/035 B29C 49/12	(11) EP4048502 (21) EP20793392.0 (47) 12.07.2023 (87) EP2020080017 29.04.2021
(11) EP3782794 (21) EP20189685.9 (47) 12.07.2023 (22) 05.08.2020 (54) ASSEMBLY FOR PRODUCING A PLASTIC MELT AND USE OF SUCH AN ASSEMBLY FOR PRODUCING A PLASTIC MELT FOR A POROUS FILM	(31) 102018111764 (32) 16.05.2018 (33) Germany	(22) 26.10.2020 (54) DEVICE FOR CONTROLLING THE MOVEMENT OF A MOVABLE ELEMENT FOR A MACHINE FOR MANUFACTURING PLASTIC RECEPTACLES
(73) Brückner Maschinenbau GmbH (72) Seibel, Stefan Marey, Benjamin Sahrhage, Torsten	(51) B29C 49/06 B29C 49/78 H02K 41/035 B29C 49/12	(11) EP4028236 (21) EP20767815.2 (47) 12.07.2023 (87) EP2020075165 18.03.2021
(31) 102019121854 (32) 14.08.2019 (33) Germany	(11) EP4028236 (21) EP20767815.2 (47) 12.07.2023 (87) EP2020075165 18.03.2021	(73) Sidel Participations (72) BRACHET, Vincent (31) 1909943 (32) 10.09.2019 (33) France
(51) B29C 48/92 B29C 48/08 B29C 48/25 B29C 48/31	(51) B29C 49/36 B29C 49/48 B29C 49/06	(31) 1911893 (32) 24.10.2019 (33) France
(11) EP3793798 (21) EP19725085.5 (47) 12.07.2023 (87) EP2019062426 21.11.2019	(11) EP3969254 (21) EP20742454.0 (47) 12.07.2023 (87) IB2020054559 26.11.2020	(51) B29C 51/02 B29C 51/10 B29C 43/18 B29C 65/02 B29C 51/12 B29B 13/02 B29L 31/30 B29L 31/00 B29C 51/00 B29C 51/08 B29C 51/16 B29K 105/12
(22) 15.05.2019 (54) METHOD FOR AUTOMATICALLY REGULATING THE SIZE OF A SLOT OF A NOZZLE ASSEMBLY AND CONTROL AND/OR REGULATION SYSTEM	(73) Sidel Participations (72) BRACHET, Vincent (31) 1909943 (32) 10.09.2019 (33) France	(11) EP3778195 (21) EP19775044.1 (47) 12.07.2023 (87) JP2019013619 03.10.2019
(73) Windmüller & Hölscher KG (72) SCHMITZ, Torsten COLELL, Waldemar GROEPPER, Bernd-Alexander FAUSTMANN, Daniel	(51) B29C 49/36 B29C 49/48 B29C 49/06	(22) 28.03.2019 (54) METHOD FOR MANUFACTURING MOLDED ARTICLE (73) Toray Industries, Inc. (72) HONMA, Masato FUJIOKA, Takashi SHINOHARA, Kotaro
	(11) EP3969254 (21) EP20742454.0 (47) 12.07.2023 (87) IB2020054559 26.11.2020	(31) 2018069182 (32) 30.03.2018 (33) Japan
	(22) 14.05.2020 (54) SUPPORT APPARATUS FOR SUPPORTING AT LEAST ONE NECK MOLD OF A CONTAINER IN AN INJECTION BLOW MOLDING MACHINE	(51) B29C 51/26 B29C 65/00 B29D 99/00 B29C 51/00 B29C 51/14 B29C 35/08 H01M 10/00
	(73) S.I.P.A. Società Industrializzazione Progettazione e Automazione S.p.A. (72) ZOPPAS, Matteo FRARE, Marco CORAN, Massimo	
	(31) 201900006961 (32) 17.05.2019 (33) Italy	
	(51) B29C 49/56 B29C 49/02 B29C 49/06 B29C 49/36 B29L 31/00	

B21D 13/00	ACHTEN, Dirk	B29C 64/241
B21D 22/20	(31) 18210888	B33Y 10/00
B21D 22/26	(32) 06.12.2018	B33Y 30/00
B21D 26/14	(33) European Patent Office (EPO)	B29L 31/34
B29C 51/08	(51) B29C 64/112	H01B 17/28
H01M 50/136	B29C 64/165	B33Y 80/00
B29K 67/00	B29C 64/364	(11) EP3774327
B29K 23/00	B33Y 10/00	(21) EP19781800.8
(11) EP3611006	B33Y 30/00	(47) 12.07.2023
(21) EP18903257.6	B33Y 70/10	(87) US2019025110
(47) 12.07.2023	A61L 27/52	10.10.2019
(87) KR2018015423	(11) EP3339001	(22) 01.04.2019
08.08.2019	(21) EP17200194.3	(54) APPARATUS AND METHOD FOR
(22) 06.12.2018	(47) 12.07.2023	FORMING AN ARTICLE
(54) POUCH FORMING DEVICE AND	(22) 06.11.2017	(73) Hitachi Energy Switzerland AG
METHOD	(54) METHOD OF MANUFACTURING SOLID	(72) MURPHY, Kathryn F.
(73) LG Energy Solution, Ltd.	FREEFORM FABRICATION OBJECT	KADOKO, Jonah
(72) KU, Cha Hun	AND SYSTEM FOR MANUFACTURING	ROCKS, Jens
CHOI, Hang June	SOLID FREEFORM FABRICATION	GHOUL, Cherif
PYO, Jung Kwan	OBJECT	KASZA, Krzysztof
JUNG, Tai Jin	(73) Ricoh Company, Ltd.	PERIGO, Elio Alberto
PARK, Kun Ha	(72) NORIKANE, Yoshihiro	ZANT, Nikolaus
(31) 20180011293	MATSUMURA, Takashi	MATYSIAK, Lukasz
(32) 30.01.2018	OKADA, Noriaki	SEKULA, Robert
(33) Korea (Republic)	IWATA, Hiroshi	HETRICH, Matthew
(51) B29C 63/00	NIIMI, Tatsuya	MALINOWSKI, Lukasz
B29C 63/48	(31) 2016218342	(31) 201815946999
B29C 63/02	(32) 08.11.2016	(32) 06.04.2018
B29C 65/08	(33) Japan	(33) United States of America
B29C 65/48	(51) B29C 64/112	(51) B29C 64/165
B29C 65/52	B29C 64/393	B29C 64/393
B29C 65/78	B33Y 10/00	B29C 64/343
B29C 65/00	B33Y 50/00	B29C 64/20
B32B 37/00	B33Y 80/00	B22F 10/14
B32B 37/06	(11) EP3983200	B22F 12/90
(11) EP3781383	(21) EP20727728.6	B22F 10/37
(21) EP19719229.7	(47) 12.07.2023	B33Y 10/00
(47) 12.07.2023	(87) IB2020054703	B33Y 40/00
(87) EP2019059958	17.12.2020	B33Y 30/00
24.10.2019	(22) 18.05.2020	B33Y 50/02
(22) 17.04.2019	(54) ADDITIVE MANUFACTURING OF	(11) EP3762218
(54) METHOD AND INSTALLATION FOR	A FREE FORM OBJECT MADE OF	(21) EP18928142.1
JOINING A COVER LAYER TO AN	MULTICOMPONENT MATERIALS	(47) 12.07.2023
OBJECT	(73) IO Tech Group Ltd.	(87) US2018043310
(73) Woodwelding AG	(72) ZENOU, Michael	30.01.2020
(72) LEHMANN, Mario	NESHER, Guy	(22) 23.07.2018
TORRIANI, Laurent	(31) 201962861548 P	(54) ADAPTING PRINTING PARAMETERS
POSCHNER, Patricia	(32) 14.06.2019	DURING ADDITIVE MANUFACTURING
(31) 4972018	(33) United States of America	PROCESSES
(32) 17.04.2018	(51) B29C 64/118	(73) Hewlett-Packard Development Company,
(33) Switzerland	B29C 64/393	L.P.
(51) B29C 63/48	B33Y 30/00	(72) GONZALEZ MARTIN, Sergio
(11) EP3890944	(11) EP3827969	ZENG, Jun
(21) EP19809500.2	(21) EP20209727.5	MOSHER, Daniel
(47) 12.07.2023	(47) 12.07.2023	CHAMPION, David A.
(87) EP2019083301	(22) 25.11.2020	ROCA VILA, Jordi
11.06.2020	(54) THREE-DIMENSIONAL SHAPING	(51) B29C 64/209
(22) 02.12.2019	APPARATUS	B29C 64/106
(54) FILM SURFACES FUNCTIONALIZED	(73) Seiko Epson Corporation	B29C 64/118
BY MEANS OF 3D PRINTING FOR	(72) FUJIMORI, Koji	B29C 64/227
THE FINISHING OF WORKPIECE	OKAMOTO, Eiji	B33Y 40/00
SURFACES	NAKAMURA, Kazuhide	B33Y 30/00
(73) Covestro Intellectual Property GmbH &	TSUNOYA, Akihiko	(11) EP3749503
Co. KG	WATANABE, Manabu	(21) EP19704004.1
(72) BIRTH, Jari	(31) 2019214117	(47) 12.07.2023
KÜNZEL, Jonas	(32) 27.11.2019	(87) EP2019053143
DEGIORGIO, Nicolas	(33) Japan	15.08.2019
BÜSGEN, Thomas	(51) B29C 64/124	(22) 08.02.2019

(54) ROBOT-MOUNTED 3D PRINTING APPARATUS	ESPECIALLY VIA DEPOSITION OF MATERIAL	KUWABARA, Ryuji TAKEDA, Kohei IKISHIMA, Shinsuke
(73) Motherson Innovations Company Limited	(73) Westlake Compounds Holding	(31) 2016173304
(72) THORPE, Dylan BELCHER, Simon BROWN, Peter	(72) ELAARAG, Hossam EL FOUZARI, Mustapha AMOUROUX, Nicolas	2015190790 (32) 06.09.2016 29.09.2015
(31) 102018102953	(31) 1905232	(33) Japan
(32) 09.02.2018	(32) 20.05.2019	Japan
(33) Germany	(33) France	
(51) B29C 64/218	(51) B29C 65/02	(51) B29C 65/18
B29C 64/10	B29C 65/06	B29C 65/30
B33Y 30/00	B29C 65/08	B65B 7/16
B29C 64/00	B29C 65/14	B65B 51/14
B29C 64/232	B29C 65/16	B65B 59/04
B29C 64/236	(11) EP3820679	(11) EP3702136
B33Y 10/00	(21) EP19749704.3	(21) EP20153980.6
(11) EP3565709	(47) 12.07.2023	(47) 12.07.2023
(21) EP17906640.2	(87) EP2019070796	(22) 28.01.2020
(47) 12.07.2023	20.02.2020	(54) METHOD FOR OPERATING A PACKAGING MACHINE
(87) US2017028915	(22) 01.08.2019	(73) MULTIVAC Sepp Hagenmüller SE & Co. KG
25.10.2018	(54) WELDING DEVICE AND RACK FOR SAME	
(22) 21.04.2017	(73) Branson Ultraschall Niederlassung der Emerson Technologies GmbH & Co. oHG	(72) PFALZER, Thomas BUCHBERGER, Peter
(54) RECOATER MOVEMENT	(72) PRIEM, Heiko	(31) 102019202755
(73) Hewlett-Packard Development Company, L.P.	(31) 102018119618	(32) 28.02.2019
(72) COLLINS, Eric SCHALK, Wesley R. EWE, Michael EWALD, Brent	(32) 13.08.2018 (33) Germany	(33) Germany
(51) B29C 64/259	(51) B29C 65/06	(51) B29C 65/22
B29C 64/153	F16F 1/02	B65B 7/28
B29C 64/357	F16F 3/02	B65B 51/10
B33Y 30/00	(11) EP3725500	B29C 65/74
B33Y 40/00	(21) EP19169521.2	B29C 65/78
(11) EP3533588	(47) 12.07.2023	B29C 69/00
(21) EP18204594.8	(22) 16.04.2019	B65B 7/16
(47) 12.07.2023	(54) SPRING PACKAGE FOR A VIBRATION WELDING DEVICE AND RESPECTIVE VIBRATION WELDING DEVICE	B65B 31/02
(22) 06.11.2018	(73) Branson Ultraschall Niederlassung der Emerson Technologies GmbH & Co. oHG	B29C 65/38
(54) ADDITIVE MANUFACTURING DEVICE COMPRISING A REPLACEABLE RAW MATERIAL PROCESSING UNIT	(72) LOTZ, Wilfried KRECKEL, Wolfgang MOTOVSKY, Michal	(11) EP3736114 (21) EP20183517.0 (47) 12.07.2023 (22) 08.10.2015
(73) Sintratec AG	(73) Branson Ultraschall Niederlassung der Emerson Technologies GmbH & Co. oHG	(54) APPARATUS AND PROCESS FOR PACKAGING A PRODUCT
(72) SOLENICKI, Dominik von Burg, Christian	(72) LOTZ, Wilfried KRECKEL, Wolfgang MOTOVSKY, Michal	(73) Cryovac, LLC
(31) 18159056	(51) B29C 65/08	(72) CAPITANI, Stefano CHIODINI, Sergio RIZZI, Jvanohe
(32) 28.02.2018	B29C 65/18	(31) 14188562
(33) European Patent Office (EPO)	B29C 65/72	(32) 10.10.2014
(51) B29C 64/386	D06H 5/00	(33) European Patent Office (EPO)
B33Y 50/00	B32B 5/02	
B29C 71/00	B32B 5/26	
B41J 3/407	D06M 17/00	(51) B29C 65/48
B41J 11/00	B29C 65/82	B29C 65/00
B05D 3/06	B29K 23/00	B29C 65/02
B41M 5/00	B29K 67/00	B29C 65/10
B05D 3/00	B29L 31/48	B29L 31/30
B29C 71/04	A61F 13/62	(11) EP3772407
B41M 5/24	A44B 18/00	(21) EP20190018.0
B41M 5/26	(11) EP3358071	(47) 12.07.2023
(11) EP3972820	(21) EP16851202.8	(22) 07.08.2020
(21) EP20735231.1	(47) 12.07.2023	(54) SYSTEM FOR IMPROVING THERMOSET-THERMOPLASTIC INTERFACE ADHESION
(47) 12.07.2023	(87) JP2016077308	(73) The Boeing Company
(87) FR2020000175	06.04.2017	(72) PRAKASH, Om SINHA, Nishant Kumar
26.11.2020	(22) 15.09.2016	(31) 201916537484
(22) 19.05.2020	(54) METHOD FOR PRODUCING A LAYERED ARTICLE	(32) 09.08.2019
(54) SYSTEM AND PROCESS FOR SELECTIVELY AND LOCALLY TREATING THE SURFACE OF PARTS,	(73) Nitto Denko Corporation	(33) United States of America
	(72) NAKAGAWA, Muneshige UCHIDA, Shou KUZUHARA, Ikuya	(51) B29C 67/24

B05B 13/02	(21) EP19758377.6	(32) 05.04.2019
B05D 1/02	(47) 12.07.2023	04.03.2019
B05D 3/12	(87) EP2019072267	(33) Netherlands
B05D 5/06	05.03.2020	United States of America
B28B 1/00	(22) 20.08.2019	(51) B29C 70/52
B28B 3/02	(54) PRODUCT	(11) EP4041537
B44C 5/06	(73) Qinetiq Limited	(21) EP20771801.6
B44F 9/04	(72) MEEKS, Charlotte B	(47) 12.07.2023
C04B 41/00	(31) 201814021	(87) EP2020075189
C04B 41/45	(32) 29.08.2018	15.04.2021
C04B 41/61	(33) United Kingdom	(22) 09.09.2020
B05B 1/20	(51) B29C 70/34	(54) PULTRUSION APPARATUS FOR
B05B 12/00	B29C 31/08	CURVED PROFILES
B05B 12/02	B29C 43/36	(73) KraussMaffei Technologies GmbH
(11) EP3684517	B29C 53/36	(72) SCHMIDHUBER, Sebastian
(21) EP19735812.0	B29C 70/46	(31) 102019127025
(47) 12.07.2023	B29C 70/54	(32) 08.10.2019
(87) US2019016113	B29D 99/00	(33) Germany
11.07.2019	B29C 31/00	(51) B29C 70/54
(22) 31.01.2019	(11) EP3976358	B41J 3/407
(54) APPARATUS AND METHOD FOR	(21) EP20728698.0	B41J 13/10
SPRAYING COLOR INTO CRACKS	(47) 12.07.2023	B64C 1/00
OF A MOVING FORMED QUARTZ	(87) EP2020064233	B29C 37/00
SLAB TO CREATE VEINS IN AN	03.12.2020	B41M 5/00
ENGINEERED STONE	(22) 21.05.2020	B44C 1/10
(73) Xie, Alex	(54) METHOD AND DEVICE FOR	B44C 1/16
(72) Xie, Alex	MANUFACTURING A PROFILE	B64F 5/40
(31) 201916259816	MEMBER OF COMPOSITE MATERIAL,	B29K 105/24
201816131103	THE CROSS-SECTION OF WHICH HAS	B41M 3/12
(32) 28.01.2019	THREE BRANCHES	(11) EP3418059
14.09.2018	(73) LATECOERE	(21) EP18174554.8
(33) United States of America	(72) KLISKY, Miloslav	(47) 12.07.2023
United States of America	KRENA, Josef	(22) 28.05.2018
(51) B29C 70/16	(31) 1905615	(54) METHODS AND SYSTEMS FOR
B29C 70/34	(32) 28.05.2019	INKJET PRINTING ON CO-CURABLE
B29B 11/12	(33) France	PAINT FILM
B29C 43/12	(51) B29C 70/38	(73) The Boeing Company
B29C 70/44	G01N 21/892	(72) WESTREN, Anthony M.
B29C 70/54	(11) EP3705279	LAWTON, Thomas G.
B29B 11/16	(21) EP20160754.6	KERR, Caitlin Elizabeth
B29C 43/36	(47) 12.07.2023	RILEY, Terrell D.
B29C 51/28	(22) 03.03.2020	BREI, Mark Richard
B29C 53/40	(54) THERMOGRAPHIC INSPECTION FOR	(31) 201715611552
B29L 31/08	TAPE LAYUP MACHINES	(32) 01.06.2017
B30B 5/02	(73) The Boeing Company	(33) United States of America
(11) EP3976357	(72) Hansen, Amanda	(51) B29C 73/10
(21) EP20733326.1	Brady, Steven	B29C 73/26
(47) 12.07.2023	Holmes, Tyler	(11) EP4031358
(87) US2020032893	(31) 2022887	(21) EP20785805.1
03.12.2020	201916292055	(47) 12.07.2023
(22) 14.05.2020	(32) 05.04.2019	(87) FR2020051571
(54) CONTROLLED SHEAR VACUUM	04.03.2019	25.03.2021
FORMING FOR SHAPING PREFORMS	(33) Netherlands	(22) 11.09.2020
(73) Cytec Industries Inc.	United States of America	(54) METHOD OF REPAIRING THERMAL
(72) PARKINSON, Robert	(51) B29C 70/38	PROTECTION FOR A NACELLE
(31) 201962855012 P	G01N 25/72	STRUCTURE
(32) 31.05.2019	(11) EP3705278	(73) Safran Nacelles
(33) United States of America	(21) EP20160731.4	(72) CAVELIER, Erika
(51) B29C 70/20	(47) 12.07.2023	HELIN, Julien
B29B 11/16	(22) 03.03.2020	(31) 1910184
B29C 70/22	(54) THERMOGRAPHIC INSPECTION FOR	(32) 16.09.2019
B29C 70/24	TAPE LAYUP MACHINES	(33) France
B29C 70/88	(73) The Boeing Company	(51) B29D 7/01
D03D 11/00	(72) Holmes, Tyler	G02B 1/14
D03D 15/573	Brady, Steven	B29C 48/00
D03D 25/00	Hansen, Amanda	B29C 48/07
D03D 15/67	(31) 2022886	B29C 48/21
(11) EP3843980	201916292038	B29C 48/88



B29C 48/885	B60C 13/00	C08G 69/36
B29C 48/92	B60C 9/14	(11) EP3969265
B32B 27/08	B60C 9/18	(21) EP20727181.8
B32B 27/20	B29D 30/30	(47) 12.07.2023
B32B 27/28	B60C 5/14	(87) EP2020063354
B32B 27/30	(11) EP3613612	19.11.2020
B32B 27/32	(21) EP18788644.5	(22) 13.05.2020
B32B 27/34	(47) 12.07.2023	(54) BLACK-COLOURED POLYAMIDE
B32B 27/36	(87) JP2018014607	COMPOSITION WITH HIGH LASER
B32B 27/38	25.10.2018	TRANSMITTANCE FOR LASER
B32B 27/42	(22) 05.04.2018	WELDING APPLICATION
B29K 33/00	(54) PNEUMATIC TIRE AND METHOD FOR	(73) BASF SE
B29K 69/00	MANUFACTURING SAME	(72) WANG, Huanbing
(11) EP3659802	(73) The Yokohama Rubber Co., Ltd.	(31) PCT/CN2019/086865
(21) EP18838517.3	(72) MIYOSHI Masaaki	(32) 14.05.2019
(47) 12.07.2023	(31) 2017082741	(33) World Intellectual Property Office (WIPO)
(87) JP2018028168	(32) 19.04.2017	(51) B30B 5/06
31.01.2019	(33) Japan	B27N 3/24
(22) 27.07.2018	(51) B29D 30/40	(11) EP3406435
(54) LAYERED/EXTRUDED RESIN SHEET,	B29D 30/38	(21) EP18163237.3
AND PROTECTIVE SHEET FOR LIQUID	D02G 3/48	(47) 12.07.2023
CRYSTAL DISPLAY WITH INFRARED	D06M 15/693	(22) 22.03.2018
SENSOR	B60C 9/00	(54) METHOD AND PRESS FOR PRESSING
(73) Kuraray Co., Ltd.	(11) EP3727826	A PRESSED MATERIAL MAT
(72) FUNAZAKI, Kazuo	(21) EP18833933.7	(73) Siempelkamp Maschinen- und
(31) 2017146447	(47) 12.07.2023	Anlagenbau GmbH
(32) 28.07.2017	(87) FR2018053273	(72) Sebastian, Lothar
(33) Japan	27.06.2019	Schürmann, Klaus
(51) B29D 30/00	(22) 13.12.2018	Fechner, Hans
(11) EP3793812	(54) METHOD FOR PRODUCING A	Schöler, Michael
(21) EP19790033.5	THREADLIKE REINFORCEMENT	(31) 102017110875
(47) 12.07.2023	ELEMENT	(32) 18.05.2017
(87) FR2019051120	(73) COMPAGNIE GENERALE DES	(33) Germany
21.11.2019	ETABLISSEMENTS MICHELIN	(51) B30B 5/06
(22) 16.05.2019	(72) RIH, Sabrina	B27N 3/24
(54) METHOD FOR PRODUCING	CORNILLE, Richard	B30B 1/34
A TIRE PROVIDED WTH	(31) 1763117	B27N 3/20
A RADIOFREQUENCY	(32) 22.12.2017	(11) EP3415304
COMMUNICATIONS MODULE	(33) France	(21) EP18160229.3
(73) COMPAGNIE GENERALE DES	(51) B29D 99/00	(47) 12.07.2023
ETABLISSEMENTS MICHELIN	D06F 37/26	(22) 06.03.2018
(72) HINC, Henri	(11) EP3710241	(54) PRESS AND METHOD FOR
BESTGEN, Luc	(21) EP18782948.6	OPERATING A PRESS
GLIBERT, Severine	(47) 12.07.2023	(73) Siempelkamp Maschinen- und
(31) 1854102	(87) EP2018076781	Anlagenbau GmbH
(32) 17.05.2018	23.05.2019	(72) Fechner, Hans
(33) France	(22) 02.10.2018	(31) 102017110882
(51) B29D 30/00	(54) A BELLOWS SUITABLE FOR USE	(32) 18.05.2017
B29D 30/42	IN WASHING MACHINES AND THE	(33) Germany
B65G 47/248	PRODUCTION METHOD THEREOF	(51) B30B 11/00
B65G 47/252	(73) Arçelik Anonim Sirketi	B30B 11/02
(11) EP3793813	(72) PALIGRAT, Cetin	B28B 1/087
(21) EP19730404.1	KABA, Aybuke	B28B 3/02
(47) 12.07.2023	BAKIRHAN, Omer Seyhun	B21D 22/22
(87) FR2019051117	KIRAZ, Hulya	(11) EP3094480
21.11.2019	(31) 201717930	(21) EP15701709.6
(22) 16.05.2019	(32) 14.11.2017	(47) 12.07.2023
(54) EQUIPMENT AND METHOD OF	(33) Türkiye	(87) EP2015050597
MANUFACTURING REINFORCED	(51) B29K 105/00	23.07.2015
WEBS WITH AN APPARATUS FOR	B29C 65/16	(22) 14.01.2015
TURNING FLAT STRIPS	B29C 65/00	(54) DEVICE AND METHOD FOR
(73) COMPAGNIE GENERALE DES	C08G 69/14	COMPACTING MINERAL MIXTURES
ETABLISSEMENTS MICHELIN	C08K 5/00	OR FOR DEEP DRAWING SHEET
(72) LEBLANC, Dominique	C08K 5/23	METAL OR PLASTIC SHEETS
(31) 1854128	C08L 77/02	(73) Winkler Maschinen-Bau GmbH
(32) 17.05.2018	C08L 77/06	(72) WINKLER, Harald
(33) France	C08L 77/10	(31) 202014000704 U
(51) B29D 30/08	B29C 65/82	202014000162 U

(32) 20.01.2014	HILLAERT, Rik	(11) EP3067194
14.01.2014	(31) 17161218	(21) EP16158502.1
(33) Germany	(32) 15.03.2017	(47) 12.07.2023
Germany	(33) European Patent Office (EPO)	(22) 03.03.2016
(51) B30B 11/00	(51) B32B 1/08	(54) MANUFACTURING METHOD OF
B30B 15/02	B05D 7/04	HONEYCOMB STRUCTURE, AND
B30B 15/30	B32B 7/02	GRINDING WHEEL
(11) EP3463842	B32B 27/06	(73) NGK Insulators, Ltd.
(21) EP17727819.9	B65D 65/40	(72) UMETSU, Nobuyuki
(47) 12.07.2023	C08J 7/04	NOGUCHI, Nobuchika
(87) EP2017061972	C23C 28/00	FUKUI, Toshihiro
30.11.2017	C23C 28/04	(31) 2015050540
(22) 18.05.2017	(11) EP3741560	(32) 13.03.2015
(54) ARRANGEMENT AND METHOD FOR	(21) EP19741638.1	(33) Japan
HANDLING A LOAD FOR ISOSTATIC	(47) 12.07.2023	(51) B32B 3/12
PRESSURE TREATMENT	(87) JP2019001539	B32B 38/06
(73) Quintus Technologies AB	25.07.2019	F16S 1/00
(72) THUNHOLM, Roger	(22) 18.01.2019	(11) EP4094933
(31) 1650725	(54) GAS BARRIER LAMINATE AND	(21) EP22170642.7
(32) 25.05.2016	PACKAGE PROVIDED WITH SAME	(47) 12.07.2023
(33) Sweden	(73) Toppan Printing Co., Ltd.	(22) 28.04.2022
(51) B30B 15/26	(72) OKAMURA Kengo	(54) METHOD FOR MANUFACTURING A
G01N 27/22	FUKUGAMI Miki	HONEYCOMB STRUCTURE OBTAINED
B30B 5/06	(31) 2019005916	FROM FOLDED STRIPS OF MATERIAL
B30B 15/00	2019006095	AND HONEYCOMB STRUCTURE THUS
F16N 29/02	2019006093	OBTAINED
B27N 3/24	2018119837	(73) AIRBUS OPERATIONS (S.A.S.)
F16N 7/00	2018007295	(72) RAVISE, Florian
B27N 1/02	(32) 17.01.2019	COLMAGRO, Jérôme
(11) EP3902670	17.01.2019	GAUTHIER, Maxime
(21) EP20713513.8	17.01.2019	CARIOU, Charles
(47) 12.07.2023	25.06.2018	(31) 2105509
(87) EP2020055042	19.01.2018	(32) 27.05.2021
24.09.2020	(33) Japan	(33) France
(22) 26.02.2020	Japan	(51) B32B 3/20
(54) CONTINUOUSLY OPERATING PRESS	Japan	A63C 5/12
WITH APPARATUS FOR MONITORING	Japan	B32B 3/28
THE LUBRICATING STATE OF A	Japan	B32B 3/08
REVOLVING BELT, TO WHICH A	(51) B32B 1/08	B32B 3/26
LUBRICANT HAS BEEN APPLIED, AND	B32B 5/02	B32B 3/12
RELEVANT PROCESS	B32B 7/022	B32B 5/02
(73) Siempelkamp Maschinen- und	B32B 27/08	B32B 5/18
Anlagenbau GmbH	B32B 27/12	B32B 15/04
(72) GARTZ, Klaus	F16L 11/08	B32B 15/18
(31) 102019107137	F16L 11/12	B32B 15/20
(32) 20.03.2019	(11) EP3698961	B32B 21/00
(33) Germany	(21) EP20155546.3	B32B 25/00
(51) B32B 1/02	(47) 12.07.2023	B32B 27/30
B32B 5/22	(22) 05.02.2020	B32B 27/32
B32B 5/24	(54) HOSE, IN PARTICULAR FOR	B32B 27/40
B32B 5/26	DRINKING WATER APPLICATIONS	(11) EP3917769
B32B 27/08	(73) REHAU Industries SE & Co. KG	(21) EP20717937.5
B32B 27/12	(72) Wazlawik, Klaus	(47) 12.07.2023
B32B 27/32	Biedermann, Armin	(87) IB2020000094
A45C 5/02	Zahn, Cornelia	06.08.2020
A45C 5/03	Gareis, Annalena	(22) 31.01.2020
B29C 51/14	Müller, Jörg	(54) SLIDING BOARD WITH CORRUGATED
B29L 31/00	(31) 202019100919 U	MEDIUMS
(11) EP3769950	(32) 19.02.2019	(73) PDA Ecolab, SAS
(21) EP20170469.9	(33) Germany	(72) JOHNSON, Lance
(47) 12.07.2023	(51) B32B 3/12	(31) 201962841266 P
(22) 15.03.2018	B24D 5/14	201962841265 P
(54) A METHOD OF MAKING A LUGGAGE	B24D 7/14	201962803517 P
ARTICLE COMPRISING LAMINATING	B24B 27/00	201962799763 P
THERMOPLASTIC POLYMER	B24B 7/17	201962799761 P
LAMINATE FILMS	B28B 11/24	201962799760 P
(73) Samsonite IP Holdings S.à.r.l.	B28B 11/04	(32) 01.05.2019
(72) KOSLOWSKI, Pauline, M.	B28B 11/12	01.05.2019

10.02.2019	(87) JP2018012560	26.03.2014
01.02.2019	04.10.2018	(33) Japan
01.02.2019	(22) 27.03.2018	Japan
01.02.2019	(54) POLYVINYL ACETAL RESIN FILM FOR	Japan
(33) United States of America	LAMINATED GLASS	(51) B32B 27/32
United States of America	(73) Kuraray Europe GmbH	B29C 48/08
United States of America	(72) ISOUE, Koichiro	B32B 7/023
United States of America	KELLER, Uwe	B32B 7/027
United States of America	KOISHIKAWA, Jun	B32B 7/12
United States of America	YASUDA, Hirotaka	B32B 27/08
(51) B32B 5/02	(31) 2017061694	(11) EP3907075
B32B 5/26	(32) 27.03.2017	(21) EP21171735.0
C08J 5/04	(33) Japan	(47) 12.07.2023
B32B 27/08	(51) B32B 27/08	(22) 02.05.2021
C08J 5/24	B32B 27/22	(54) LAMINATED PACKAGING MATERIAL
B32B 27/38	G06F 3/041	WITH A PLASTIC FILM FORMING A
(11) EP3746499	C09J 129/14	PRINTING SUBSTRATE
(21) EP19706792.9	C09K 3/10	(73) Coveris Flexibles Austria GmbH
(47) 12.07.2023	G09F 9/00	(72) Vollmer, Jan - Torsten
(87) US2019013794	C08K 5/00	Shaw, Ian
08.08.2019	C08K 5/103	Geißler, Bernd
(22) 16.01.2019	B32B 27/30	(31) 5009620 U
(54) PREPREG FOR USE IN MAKING	(11) EP3128398	(32) 06.05.2020
COMPOSITE PARTS WHICH	(21) EP15773264.5	(33) Austria
TOLERATE HOT AND WET	(47) 12.07.2023	(51) B32B 27/34
CONDITIONS	(87) JP2015060356	B05D 3/02
(73) Hexcel Corporation	08.10.2015	B05D 7/24
(72) EMMERSON, Gordon	(22) 01.04.2015	(11) EP2722173
WANG, Yen-Seine	(54) INTERLAYER FILLING MATERIAL FOR	(21) EP12800499.1
(31) 201816158151	TOUCH PANEL, AND LAMINATED	(47) 12.07.2023
201815886008	BODY	(87) JP2012065278
(32) 11.10.2018	(73) Sekisui Chemical Co., Ltd.	20.12.2012
01.02.2018	(72) FUKATANI Juichi	(22) 14.06.2012
(33) United States of America	(31) 2014077149	(54) METHOD FOR PRODUCING
United States of America	(32) 03.04.2014	POLYIMIDE LAMINATE, AND
(51) B32B 5/28	(33) Japan	POLYIMIDE LAMINATE
C08J 5/04	(51) B32B 27/30	(73) UBE Corporation
B32B 1/08	B44C 1/17	(72) NAKAYAMA, Takeshige
B32B 5/02	B29C 45/14	NAKAYAMA, Tomonori
B32B 5/12	B29C 45/16	(31) 2011132739
B32B 5/26	B32B 27/36	2011132738
(11) EP3572225	B32B 27/40	(32) 14.06.2011
(21) EP18741382.8	B32B 27/16	14.06.2011
(47) 12.07.2023	B32B 27/00	(33) Japan
(87) JP2018001333	B32B 27/08	Japan
26.07.2018	B32B 27/18	(51) B32B 38/14
(22) 18.01.2018	C08F 265/06	B29C 63/02
(54) LAMINATED BODY AND TAPE	C08F 290/06	B65H 5/30
WINDING PIPE	C08F 290/14	B65H 7/02
(73) Mitsui Chemicals, Inc.	B32B 38/00	(11) EP3885139
(72) ISAKI, Takeharu	(11) EP3124239	(21) EP21162301.2
ISHIKAWA, Junichi	(21) EP15769231.0	(47) 12.07.2023
IWATA, Shigeki	(47) 12.07.2023	(22) 12.03.2021
KIKUCHI, Kazuaki	(87) JP2015059129	(54) SHEET SEPARATION DEVICE,
UZAWA, Kiyoshi	01.10.2015	LAMINATOR, IMAGE FORMING
(31) 2017047826	(22) 25.03.2015	APPARATUS, AND IMAGE FORMING
2017008362	(54) TRANSFER FILM FOR THREE-	SYSTEM
(32) 13.03.2017	DIMENSIONAL MOLDING	(73) Ricoh Company, Ltd.
20.01.2017	(73) Dainippon Printing Co., Ltd.	(72) NOZAKI, Wataru
(33) Japan	(72) NODA, Akihisa	TAKAHASHI, Wataru
Japan	MATSUMORI, Masaaki	FURUHASHI, Tomohiro
(51) B32B 17/10	KAWANISHI, Hiroki	AKIYAMA, Joji
C03C 27/12	ATAKE, Hiroyuki	HARAGUCHI, Yohsuke
C08L 29/14	(31) 2014200485	SUZUKI, Yoshito
C08J 5/18	2014064778	MONMA, Shinya
(11) EP3604254	2014064777	ASANO, Sho
(21) EP18778264.4	(32) 30.09.2014	(31) 2020050393
(47) 12.07.2023	26.03.2014	(32) 22.03.2020

(33) Japan	(21) EP19722639.2	(51) B41J 2/045
(51) B33Y 10/00	(47) 12.07.2023	(11) EP3912819
B33Y 70/00	(87) EP2019062158	(21) EP20209864.6
C08F 2/48	21.11.2019	(47) 12.07.2023
C08F 283/00	(22) 13.05.2019	(22) 25.11.2020
C08F 290/06	(54) A LITHOGRAPHIC PRINTING PLATE	(54) LIQUID EJECTION HEAD AND LIQUID
C09D 175/14	PRECURSOR	EJECTION DEVICE
C08L 75/14	(73) AGFA OFFSET BV	(73) Toshiba Tec Kabushiki Kaisha
C08G 18/81	(72) BILLIET, Thomas	(72) Ito, Shota
C08G 18/40	HEYLEN, Kristof	(31) 2020088234
C08G 18/32	(31) 18172060	(32) 20.05.2020
C08F 220/34	(32) 14.05.2018	(33) Japan
(11) EP3727858	(33) European Patent Office (EPO)	(51) B41J 2/045
(21) EP18814641.9	(51) B41F 9/06	B41J 2/14
(47) 12.07.2023	(11) EP3807091	(11) EP3702160
(87) EP2018084573	(21) EP18732658.2	(21) EP20159720.0
27.06.2019	(47) 12.07.2023	(47) 12.07.2023
(22) 12.12.2018	(87) EP2018025159	(22) 27.02.2020
(54) TWO PHASE 3D PRINTING METHOD	19.12.2019	(54) LIQUID EJECTING HEAD, AND LIQUID-
(73) Covestro Deutschland AG	(22) 12.06.2018	EJECTING RECORDING APPARATUS
(72) ACHTEN, Dirk	(54) INKING SYSTEM FOR A	(73) SII Printek Inc
BÜSGEN, Thomas	ROTOGRAVURE PRESS WITH	(72) WATANABE, Toshiaki
TOMCZYK, Christoph	OPTIMAL CONFIGURATIONS FOR	YOSHIDA, Kensuke
WAGNER, Roland	SEVERAL TYPES OF INK AND	(31) 2019033587
STEMPFLE, Florian, Johannes	METHOD FOR CONFIGURING THE	(32) 27.02.2019
(31) 17209426	INKING SYSTEM	(33) Japan
(32) 21.12.2017	(73) BOBST ITALIA S.P.A.	(51) B41J 2/045
(33) European Patent Office (EPO)	(72) MELOTTI, Renzo	B41J 2/175
(51) B41C 1/10	(51) B41F 13/04	B41J 29/38
B41M 1/08	B26D 3/08	B41J 2/21
B41N 1/00	B26F 1/38	(11) EP3825128
(11) EP3267255	B41F 27/02	(21) EP20162657.9
(21) EP16761568.1	B41F 33/08	(47) 12.07.2023
(47) 12.07.2023	B44B 5/00	(22) 12.03.2020
(87) JP2016056194	(11) EP3962742	(54) PRINTING APPARATUS
15.09.2016	(21) EP20725961.5	(73) Brother Kogyo Kabushiki Kaisha
(22) 01.03.2016	(47) 12.07.2023	(72) INOUE, Haru
(54) LITHOGRAPHIC PRINTING ORIGINAL	(87) NL2020050277	MAKINO, Masahiro
PLATE, METHOD FOR PRODUCING	05.11.2020	LEE, Jeongbin
LITHOGRAPHIC PRINTING PLATE	(22) 01.05.2020	NAGANO, Taro
USING SAME, AND METHOD FOR	(54) PROCESSING STATION HAVING A	KATO, Daiki
PRODUCING PRINTED MATTER	FIRST AND A SECOND CYLINDER	(31) 2019066482
(73) Toray Industries, Inc.	FOR PROCESSING A SUBSTRATE	(32) 29.03.2019
(72) KASE, Yuki	WEB	(33) Japan
MURASE, Seiichiro	(73) MPS Holding B.V.	(51) B41J 2/14
IHARA, Akihiro	(72) VAN DEN BRINK, Lambert Dirk	B41J 2/16
(31) 2015044430	(31) 2023046	(11) EP3827991
(32) 06.03.2015	(32) 01.05.2019	(21) EP20210380.0
(33) Japan	(33) Netherlands	(47) 12.07.2023
(51) B41C 1/10	(51) B41F 27/10	(22) 27.11.2020
G03F 7/105	(11) EP3946950	(54) HEAD CHIP, LIQUID JET HEAD, AND
(11) EP3793829	(21) EP20714592.1	LIQUID JET RECORDING DEVICE
(21) EP19722632.7	(47) 12.07.2023	(73) SII Printek Inc
(47) 12.07.2023	(87) EP2020058482	(72) YAMAMURA, Yuki
(87) EP2019062131	01.10.2020	AI, Tomoki
21.11.2019	(22) 26.03.2020	KUBOTA, Yuzuru
(22) 13.05.2019	(54) DEVICE AND METHOD FOR	HIRATA, Masakazu
(54) A LITHOGRAPHIC PRINTING PLATE	CHANGING SLEEVES ON CYLINDER	(31) 2020147767
PRECURSOR	MANDRELS OR ON ADAPTER	2019215363
(73) AGFA OFFSET BV	SLEEVES	(32) 02.09.2020
(72) VERMEIREN, Eva	(73) Windmüller & Hölscher KG	28.11.2019
BILLIET, Thomas	(72) BRÜNEMEYER, Klaus	(33) Japan
(31) 18172060	(31) 102019204293	Japan
(32) 14.05.2018	102019204184	(51) B41J 2/14
(33) European Patent Office (EPO)	(32) 27.03.2019	B41J 2/16
(51) B41C 1/10	26.03.2019	B41J 2/175
G03F 7/105	(33) Germany	B41J 2/18
(11) EP3793831	Germany	(11) EP3974191

(21) EP21197164.3	(11) EP3932677	B41J 2/045
(47) 12.07.2023	(21) EP21182303.4	(11) EP2969575
(22) 16.09.2021	(47) 12.07.2023	(21) EP14767897.3
(54) LIQUID DISCHARGE HEAD, LIQUID DISCHARGE DEVICE, AND LIQUID DISCHARGE APPARATUS	(22) 29.06.2021	(47) 12.07.2023
(73) Ricoh Company, Ltd.	(54) THREE-DIMENSIONAL OBJECT PRINTING METHOD	(87) US2014019077 25.09.2014
(72) KYOJIMA, Ryosuke	(73) Seiko Epson Corporation	(22) 27.02.2014
(31) 2020156114	(72) KUMAGAI, Masaru	(54) METHOD, APPARATUS, AND SYSTEM TO PROVIDE DROPLETS WITH CONSISTENT ARRIVAL TIME ON A SUBSTRATE
(32) 17.09.2020	(31) 2020111321	
(33) Japan	(32) 29.06.2020	
(51) B41J 2/14	(33) Japan	(73) Fujifilm Dimatix, Inc.
B41J 2/16	(51) B41J 3/60	(72) MENZEL, Christoph
B41J 2/18	B41J 2/52	(31) 201313841544
B41J 29/13	B41J 29/393	(32) 15.03.2013
(11) EP3939790	B41M 3/00	(33) United States of America
(21) EP21190982.5	G01J 3/46	(51) B41J 29/393
(47) 12.07.2023	H04N 1/60	H04N 1/60
(22) 08.11.2019	G06T 7/90	B41J 2/21
(54) METHOD OF MANUFACTURING HEAD CHIP AND METHOD OF MANUFACTURING LIQUID JET HEAD	H04N 1/409	(11) EP3695979
(73) SII Printek Inc.	(11) EP3746303	(21) EP20154887.2
(72) NAKAMURA, Yuji	(21) EP18916853.7	(47) 12.07.2023
MUNAKATA, Suguru	(47) 12.07.2023	(22) 31.01.2020
KUBOTA, Yuzuru	(87) US2018028850	(54) PRINTING SYSTEM, COLOR MATCHING METHOD, CONTROL DEVICE, AND PROGRAM
IROKAWA, Daiki	31.10.2019	(73) Mimaki Engineering Co., Ltd.
(31) 2018211729	(22) 23.04.2018	(72) HIOKI, Wataru
(32) 09.11.2018	(54) IMAGE GENERATION ON A TRANSPARENT OR SEMITRANSSPARENT SUBSTRATE	(31) 2019025738
(33) Japan	(73) Hewlett-Packard Development Company, L.P.	(32) 15.02.2019
(51) B41J 2/16	(72) AMELA CONESA, Eduardo	(33) Japan
(11) EP3851284	ZVEREV, Mihail	(51) B41J 29/58
(21) EP20216883.7	QIAN, Li	B41J 2/165
(47) 12.07.2023	(51) B41J 11/00	B41J 29/12
(22) 23.12.2020	B41J 2/165	B41J 29/393
(54) METHOD OF MANUFACTURING LIQUID DISCHARGE HEAD AND METHOD OF MANUFACTURING LIQUID DISCHARGE APPARATUS	B41M 7/00	B41J 29/02
(73) Ricoh Company, Ltd.	B41J 2/21	B41J 29/13
(72) TSUKAMOTO, Ryuji	(11) EP3887170	B41J 29/38
(31) 2020155539	(21) EP19768923.5	(11) EP3723993
2020005313	(47) 12.07.2023	(21) EP17935005.3
(32) 16.09.2020	(87) JP2019034277	(47) 12.07.2023
16.01.2020	04.06.2020	(87) US2017066461 20.06.2019
(33) Japan	(22) 30.08.2019	(22) 14.12.2017
Japan	(54) INKJET PRINTING DEVICE AND INKJET PRINTING METHOD	(54) PRINT HEAD LOCK
(51) B41J 2/525	(73) Ricoh Company, Ltd.	(73) Hewlett-Packard Development Company, L.P.
B41J 2/475	(72) TAKAHASHI, Hiroaki	(72) JEFFERSON, Jafar N.
B41M 5/42	BANNAI, Akiko	JARIABKA, Keith
B41M 5/34	AKIMA, Mio	FOURNIER, William
B41M 5/46	(31) 2018223002	(51) B41J 33/36
(11) EP3865305	(32) 29.11.2018	B41J 35/36
(21) EP19871756.3	(33) Japan	B41J 2/325
(47) 12.07.2023	(51) B41J 25/00	B41J 29/38
(87) JP2019036320	(11) EP3650234	(11) EP3645293
16.04.2020	(21) EP19206768.4	(21) EP18739613.0
(22) 17.09.2019	(47) 12.07.2023	(47) 12.07.2023
(54) DRAWING SYSTEM AND METHOD FOR GENERATING CHARACTERISTIC FUNCTION	(22) 01.11.2019	(87) GB2018051837 03.01.2019
(73) Sony Group Corporation	(54) DEVICE FOR ARRANGING A PRINT HEAD IN A CERTAIN POSITION	(22) 29.06.2018
(72) TEJIMA, Asuka	(73) Canon Production Printing Holding B.V.	(54) TAPE DRIVE
(31) 2018190819	(72) VAN DE SANDE, Henricus J.A.	(73) Videojet Technologies Inc.
(32) 09.10.2018	IN 'T ZANDT, Hubertus W.G.	(72) PFEFFER, Gary
(33) Japan	PÉREZ MUÑOZ, Juan C.	MCNESTRY, Martin
(51) B41J 3/407	(31) 18205404	HART, Philip
B25J 11/00	(32) 09.11.2018	WALLEY, Gareth
	(33) European Patent Office (EPO)	(31) 201710391
	(51) B41J 29/38	(32) 29.06.2017
	B41J 29/393	

(33) United Kingdom	(32) 09.09.2020	(33) China
(51) B41M 3/14	(33) Germany	(51) B60B 3/00
B41M 7/00	(51) B42D 25/328	B60B 3/10
B42D 25/29	B42D 25/373	(11) EP3750720
B42D 25/324	B42D 25/364	(21) EP19219365.4
B42D 25/328	(11) EP3793841	(47) 12.07.2023
B42D 25/36	(21) EP19726572.1	(22) 04.11.2013
B42D 25/364	(47) 12.07.2023	(54) VEHICLE WHEEL FOR PASSENGER CARS
B42D 25/373	(87) EP2019000147	(73) Maxion Wheels Holding GmbH
B42D 25/387	21.11.2019	(72) Kermelk, Werner
B42D 25/415	(22) 16.05.2019	Stelzer, Günter
B42D 25/445	(54) OPTICALLY VARIABLE SECURITY ELEMENT HAVING REFLECTIVE AREA	Rode, Karl
(11) EP3274183	(73) Giesecke+Devrient Currency Technology GmbH	(31) 202012104260 U
(21) EP16711791.0	(72) DEHMEL, Raphael	(32) 06.11.2012
(47) 12.07.2023	SCHERER, Maik Rudolf Johann	(33) Germany
(87) EP2016055006	FUHSE, Christian	(51) B60B 21/12
29.09.2016	SCHERER, Kai Herrmann	(11) EP3819134
(22) 09.03.2016	(31) 102018004052	(21) EP20154537.3
(54) MULTILAYER BODY AND METHOD FOR PRODUCING THE SAME	(32) 18.05.2018	(47) 12.07.2023
(73) Leonhard Kurz Stiftung & Co. KG	(33) Germany	(22) 30.01.2020
(72) KRÄMER, Patrick	(51) B42F 7/10	(54) SOUND ABSORBER AND WHEEL HAVING SAME
BREHM, Ludwig	B42F 7/14	(73) Citic Dicastal Co., Ltd.
FÖRSTER, Karin	(11) EP4059734	(72) HUANG, Shaobing
PFORTE, Klaus	(21) EP21810263.0	CHEN, Mingbo
(31) 102015104416	(47) 12.07.2023	LI, Minglei
(32) 24.03.2015	(87) KR2021015711	FENG, Shuwei
(33) Germany	11.08.2022	HU, Tiefeng
(51) B42D 25/324	(22) 02.11.2021	WANG, Dadong
(11) EP3630498	(54) TRAY STORAGE FOR EASILY STORING AND VIEWING DOCUMENTS	LIU, Weidong
(21) EP18728304.9	(73) Jeong, Do Cheon	XU, Shiwen
(47) 12.07.2023	(72) Jeong, Do Cheon	(31) 201911085339
(87) EP2018000277	(31) 20210053752	(32) 08.11.2019
06.12.2018	20210014976	(33) China
(22) 28.05.2018	(32) 26.04.2021	(51) B60B 35/02
(54) SECURITY ELEMENT HAVING TWO STAMPED STRUCTURES	02.02.2021	B60B 35/04
(73) Giesecke+Devrient Currency Technology GmbH	(33) Korea (Republic)	(11) EP3630502
(72) MAYER, Karlheinz	Korea (Republic)	(21) EP18805594.1
HUYNH, Thanh-Hao	(51) B43K 1/12	(47) 12.07.2023
FRANZ, Peter	B43K 1/01	(87) US2018034102
(31) 102017005192	B43K 3/00	29.11.2018
(32) 31.05.2017	B43K 5/03	(22) 23.05.2018
(33) Germany	B43K 8/10	(54) UNITIZED WHEEL END ASSEMBLY AND METHOD OF INSTALLATION
(51) B42D 25/324	(11) EP3798015	(73) Stemco Products, Inc.
B42D 25/351	(21) EP19306221.3	(72) PEARSON, Monte
B42D 25/36	(47) 12.07.2023	XIANG, Yang Julia
B42D 25/373	(22) 30.09.2019	JIMENEZ, Daniel
B42D 25/445	(54) NIB FOR WRITING FELT PEN	(31) 201762511622 P
B42D 25/328	(73) Société BIC	(32) 26.05.2017
B42D 25/42	(72) ROUDAUT, Etienne	(33) United States of America
B42D 25/425	(51) B44C 1/10	(51) B60C 1/00
B42D 25/47	B44C 3/02	C08F 212/06
G09F 3/00	B44F 1/08	C08F 236/10
G09F 3/02	H04M 1/02	C08L 15/00
(11) EP3967508	(11) EP3753748	C08K 3/00
(21) EP21020378.2	(21) EP20180534.8	C08C 19/22
(47) 12.07.2023	(47) 12.07.2023	C08L 9/00
(22) 22.07.2021	(22) 17.06.2020	C08L 9/06
(54) OPTICALLY VARIABLE SECURITY ELEMENT	(54) FILM STRUCTURE, SHELL, AND ELECTRONIC DEVICE	C08C 19/25
(73) Giesecke+Devrient Currency Technology GmbH	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	C08C 19/02
(72) Sattler, Tobias	(72) QIU, Jinglong	C08C 19/44
Scherer, Maik Rudolf Johann	(31) 201910531772	(11) EP3950378
Scherer, Kai Herrmann	(32) 19.06.2019	(21) EP20776806.0
(31) 102020005522		(47) 12.07.2023
		(87) JP2020014380
		01.10.2020

(22) 27.03.2020	(11) EP4005824	(11) EP3925799
(54) HYDROGENATED CONJUGATED DIENE POLYMER, POLYMER COMPOSITION, CROSSLINKED BODY AND TIRE	(21) EP21203482.1 (47) 12.07.2023 (22) 19.10.2021 (54) MOTORCYCLE TIRE	(21) EP21177682.8 (47) 12.07.2023 (22) 04.06.2021 (54) TIRE
(73) ENEOS Materials Corporation	(73) Sumitomo Rubber Industries, Ltd.	(73) Sumitomo Rubber Industries, Ltd.
(72) ADACHI, Takumi SENGA, Hirofumi KAIZU, Michitaka KIKUCHI, Toshimitsu SANO, Takuya	(72) TOCHIKI, Yuki (31) 2020195351 (32) 25.11.2020 (33) Japan	(72) HASHIMOTO, Yuto (31) 2020103863 (32) 16.06.2020 (33) Japan
(31) 2019061722	(51) B60C 9/22	(51) B60C 11/12
(32) 27.03.2019	B60C 9/00	B60C 11/13
(33) Japan	D02G 3/48	B60C 11/03
(51) B60C 1/00	B60C 1/00	(11) EP3842263
C08L 9/06	(11) EP3854609	(21) EP20215961.2
C08L 9/00	(21) EP20154566.2	(47) 12.07.2023
C08L 23/16	(47) 12.07.2023	(22) 21.12.2020
C08K 3/36	(22) 30.01.2020	(54) TYRE
C08K 3/04	(54) A TEXTILE CORD AND A TIRE COMPRISING A TEXTILE CORD REINFORCEMENT	(73) Sumitomo Rubber Industries, Ltd.
C08K 3/06	(73) Kordsa Teknik Tekstil A.S	(72) OKADA, Takashi KOKATSU, Shunta YOSHIDA, Saori
C08K 5/548	The Goodyear Tire & Rubber Company	(31) 2019238295
(11) EP3774392	(72) ÖZCAN, Hazal	2019238294
(21) EP19723542.7	VAN ECK, Dirk Lothar Maria	(32) 27.12.2019
(47) 12.07.2023	GÜL, Neslihan	27.12.2019
(87) US2019026589	BECK, Raphael	(33) Japan
17.10.2019	MONTET, Sébastien	Japan
(22) 09.04.2019	DURAND, Olivier Marcel Eugène	(51) B60C 13/00
(54) PROPYLENE-BASED POLYMER ADDITIVES FOR IMPROVED TIRE TREAD PERFORMANCE	FIDAN, Mehmet Saadettin	B60C 13/02
(73) ExxonMobil Chemical Patents Inc.	BARRETT, Gary Terence	(11) EP3725562
(72) DIAS, Anthony, J. NGUYEN, Paul, T. Q. KISS, Gabor BLOK, Edward, J.	(31) 202062965419 P (32) 24.01.2020 (33) United States of America	(21) EP18888817.6 (47) 12.07.2023 (87) JP2018041104
(31) 201862655972 P	(51) B60C 11/03	20.06.2019
(32) 11.04.2018	B60C 11/13	(22) 06.11.2018
(33) United States of America	(11) EP3925797	(54) TIRE
(51) B60C 1/00	(21) EP21177234.8	(73) Bridgestone Corporation
C08L 17/00	(47) 12.07.2023	(72) KAMADA, Shiho
C08L 19/00	(22) 01.06.2021	(31) 2017236710
C08L 53/02	(54) TIRE	(32) 11.12.2017
(11) EP3898264	(73) Sumitomo Rubber Industries, Ltd.	(33) Japan
(21) EP19845764.0	(72) NAKAJIMA, Koichi	(51) B60C 15/00
(47) 12.07.2023	(31) 2020103860	B60C 15/024
(87) FR2019053065	(32) 16.06.2020	B60C 9/02
25.06.2020	(33) Japan	B60C 15/06
(22) 13.12.2019	(51) B60C 11/03	(11) EP3877201
(54) TYRE HAVING A RUBBER COMPOSITION COMPRISING A THERMOPLASTIC ELASTOMER AND A RUBBER CRUMB	B60C 11/13	(21) EP19832164.8
(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN	B60C 11/12	(47) 12.07.2023
(72) LALLET, François MERINO LOPEZ, José PIALOT, Frédéric PRAS, Maxime	(11) EP3867081 (21) EP19779915.8 (47) 12.07.2023 (87) EP2019076925 23.04.2020	(87) FR2019052585 14.05.2020 (22) 30.10.2019 (54) TYRE HAVING A REDUCED WEIGHT BEAD REGION
(31) 1900829 1873398	(22) 04.10.2019	(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN
(32) 30.01.2019	(54) TREAD FOR A WINTER PNEUMATIC TYRE AND A WINTER PNEUMATIC TYRE	(72) MANSUY, Philippe BESTGEN, Luc JOULIN, Emmanuel
(33) France	(73) Bridgestone Europe NV/SA	(31) 1860373
France	(72) AMENTA, Alessandro TRIBOULET, Pierfrancesco PACIULLI, Emanuela MANFRE', Luca	(32) 09.11.2018 (33) France
(51) B60C 9/18	(31) 201800009473	(51) B60C 15/06
B60C 9/20	(32) 16.10.2018	B60C 9/02
B60C 9/22	(33) Italy	(11) EP3853045
	(51) B60C 11/12	(21) EP19790672.0
	B60C 11/03	(47) 12.07.2023
		(87) FR2019052180

26.03.2020	(22) 29.09.2020	(33) United States of America
(22) 18.09.2019	(54) PICK-UP HITCH ASSEMBLY	(51) B60G 3/14
(54) TYRE HAVING A CARCASS REINFORCEMENT FORMED FROM A SINGLE LAYER OF TEXTILE REINFORCING ELEMENTS	(73) Deere & Company	B60G 9/02
(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN	(72) BHOSALE, Digvijay HEIMBUCH, Benjamin	B60G 11/27
(72) DUCHEMIN, Sylvie	(31) 201916669918	B60G 21/00
FRANCIA, Marc	(32) 31.10.2019	B62D 61/12
(31) 1858514	(33) United States of America	B62D 7/04
(32) 20.09.2018	(51) B60D 1/14	B60B 11/08
(33) France	B60D 1/24	(11) EP3705317
(51) B60C 19/00	B60T 7/20	(21) EP20160834.6
B60C 5/14	B60D 1/04	(47) 12.07.2023
B29D 30/00	B60D 1/44	(22) 04.03.2020
(11) EP4000965	B61D 11/00	(54) AXLE ASSEMBLY FOR A HEAVY LOAD VEHICLE AND HEAVY LOAD VEHICLE WITH AT LEAST ONE SUCH AXLE ASSEMBLY
(21) EP21208405.7	B61G 1/36	(73) Goldhofer AG
(47) 12.07.2023	(11) EP3733432	(72) HÄFELE, Horst MERKEL, Felix
(22) 16.11.2021	(21) EP19172195.0	(31) 102019203018
(54) TIRE	(47) 12.07.2023	(32) 06.03.2019
(73) Toyo Tire Corporation	(22) 02.05.2019	(33) Germany
(72) OGIMOTO, Hiroki	(54) TOWING ARRANGEMENT AND MINE MACHINE	(51) B60G 13/00
(31) 2020193146	(73) Sandvik Mining and Construction Oy	B60G 15/06
(32) 20.11.2020	(72) HIMANEN, Timo	(11) EP2783884
(33) Japan	(51) B60D 1/36	(21) EP13185884.7
(51) B60C 19/00	G01C 11/06	(47) 12.07.2023
B60C 15/06	G01C 21/16	(22) 25.09.2013
(11) EP4019293	G01C 11/00	(54) Suspension device and suspension support
(21) EP21215883.6	G01C 11/28	(73) Hitachi Astemo, Ltd.
(47) 12.07.2023	G01C 11/16	(72) Endo, Seiya
(22) 20.12.2021	G06T 7/277	(31) 2013071192
(54) TIRE	B60R 1/00	(32) 29.03.2013
(73) Toyo Tire Corporation	B60D 1/62	(33) Japan
(72) HOSOMI, Kazumasa	(11) EP3787909	(51) B60H 1/00
(31) 2020215689	(21) EP19723978.3	(11) EP3708393
(32) 24.12.2020	(47) 12.07.2023	(21) EP18872785.3
(33) Japan	(87) US2019030127	(47) 12.07.2023
(51) B60C 29/06	07.11.2019	(87) JP2018040424
F04B 33/00	(22) 01.05.2019	09.05.2019
F04B 39/12	(54) COUPLER AND TOW-BAR DETECTION FOR AUTOMATED TRAILER HITCHING VIA CLOUD POINTS	(22) 31.10.2018
(11) EP3972856	(73) Continental Autonomous Mobility US, LLC	(54) AIR CONDITIONING DEVICE FOR VEHICLES
(21) EP20726824.4	(72) IP, Julien	(73) Valeo Japan Co., Ltd.
(47) 12.07.2023	RAMIREZ LLANOS, Eduardo Jose	(72) NAGANO, Hideki
(87) EP2020063947	(31) 201862665269 P	(31) 2017213537
26.11.2020	(32) 01.05.2018	(32) 06.11.2017
(22) 19.05.2020	(33) United States of America	(33) Japan
(54) CONNECTING HEAD ADAPTED TO CONNECT A COMPRESSED AIR DISPENSING DEVICE AND AN ELEMENT IN WHICH TO INSUFFLATE SAID COMPRESSED AIR	(51) B60D 1/36	(51) B60H 1/00
(73) Smit Lorenzato Srl	G01C 21/16	B60H 1/24
(72) LORENZATO, Saverio Giuseppe	G01C 11/00	B60H 1/34
(31) 201900006996	B60R 1/00	(11) EP4041579
(32) 20.05.2019	B60D 1/62	(21) EP20797616.8
(33) Italy	G06T 17/00	(47) 12.07.2023
(51) B60D 1/14	G01C 11/28	(87) US2020054469
B60D 1/167	(11) EP3787912	15.04.2021
B60D 1/44	(21) EP19724656.4	(22) 07.10.2020
B60D 1/46	(47) 12.07.2023	(54) DIFFUSING VENT ASSEMBLY
B60D 1/62	(87) US2019030285	(73) Thor Tech, Inc.
A01B 59/06	07.11.2019	(72) RETALLACK, Charles
A01B 59/043	(22) 01.05.2019	SNYDER, Jeff
B62D 49/06	(54) TOW VEHICLE AND TRAILER ALIGNMENT	BULLOCK, Mark
(11) EP3971000	(73) Continental Autonomous Mobility US, LLC	BROCK, Jon
(21) EP21202881.5	(72) RAMIREZ LLANOS, Eduardo Jose	(31) 201962911566 P
(47) 12.07.2023	(31) 201862665308 P	(32) 07.10.2019
	(32) 01.05.2018	(33) United States of America



(51) B60H 1/00 B60H 1/24 B60H 1/34 B60K 37/02	(51) B60J 3/04 B60J 1/02 B60R 21/0134 B60R 25/31 G06F 3/041 G06F 3/01	(73) Mountain Top (Denmark) ApS (72) HANSEN, Peter, Singer SZABOLCS, Feigler VOETMANN, Thomas, Rendbeck
(11) EP3943323 (21) EP20773938.4 (47) 12.07.2023 (87) CN2020079043 24.09.2020	(11) EP3515736 (21) EP17853252.9 (47) 12.07.2023 (87) KR2017003580 29.03.2018	(31) PA201970310 (32) 16.05.2019 (33) Denmark
(22) 12.03.2020 (54) AIR OUTLET DEVICE AND AIR OUTLET METHOD FOR AN AIR CONDITIONING SYSTEM OF A VEHICLE	(22) 31.03.2017 (54) VEHICLE CONTROL DEVICE MOUNTED ON VEHICLE AND METHOD FOR CONTROLLING THE VEHICLE	(51) B60J 10/36 B60J 10/75 (11) EP3741599 (21) EP20173242.7 (47) 12.07.2023 (22) 06.05.2020
(73) BYD Company Limited (72) HUANG, Hua LIANG, Qun CHEN, Xianbing	(73) LG Electronics Inc. (72) KIM, Eunjin CHOI, Junho	(54) OUTER WAIST SEAL ASSEMBLY FOR A VEHICLE (73) Volvo Car Corporation (72) SÄVSTRÖM, Jörgen (31) 201916416591 (32) 20.05.2019 (33) United States of America
(31) 201910213924 (32) 20.03.2019 (33) China	(31) 20160120896 201715458825 (32) 21.09.2016 14.03.2017	(51) B60K 1/00 B60K 1/02 (11) EP4021747 (21) EP20756778.5 (47) 12.07.2023 (87) EP2020071288 04.03.2021
(51) B60H 1/00 B60H 1/32 F25D 17/06 F25D 19/00	(33) Korea (Republic) United States of America	(22) 28.07.2020 (54) DRIVE TRAIN FOR A VEHICLE (73) KNORR-BREMSE Systeme für Nutzfahrzeuge GmbH (72) GEIS-ESSER, Daniel (31) 102019123367 (32) 30.08.2019 (33) Germany
(11) EP3261866 (21) EP15731392.5 (47) 12.07.2023 (87) IB2015000492 01.09.2016	(51) B60J 5/06 B60J 7/10 (11) EP3683076 (21) EP20150641.7 (47) 12.07.2023 (22) 08.01.2020	(72) Carrier Corporation (72) VAAS, Philippe Thierry LANUZEL, Ludovic
(22) 23.02.2015 (54) TRANSPORT REFRIGERATION UNIT	(54) COMMERCIAL VEHICLE STRUCTURE AND COMMERCIAL VEHICLE WITH SUCH A STRUCTURE	(51) B60K 1/00 H02K 9/19 B60K 11/02 (11) EP3649725 (21) EP18734865.1 (47) 12.07.2023 (87) FR2018051134 15.11.2018 (22) 04.05.2018
(73) Carrier Corporation (72) VAAS, Philippe Thierry LANUZEL, Ludovic	(73) Kögel Trailer GmbH (72) KALISCHKO, Thomas BROLL, Tobias OKUMUS, Harun	(54) COMBINATION OF ELECTRICAL MACHINE AND SYSTEM FOR THE OIL COOLING OF SAID ELECTRICAL MACHINE (73) Renault s.a.s (72) MIKATI, Karim CARBON, Alain BERNARDIN, Fabrice BORIE, Julien BOISADAN, Fabrice
(51) B60H 1/22 F23N 5/24	(31) 102019101047 (32) 16.01.2019 (33) Germany	(31) 1754073 (32) 10.05.2017 (33) France
(11) EP3539804 (21) EP19161208.4 (47) 12.07.2023 (22) 07.03.2019	(51) B60J 7/04 B60J 7/06 (11) EP3972864 (21) EP20726350.0 (47) 12.07.2023 (87) EP2020063279 26.11.2020	(51) B60K 1/04 (11) EP3981630 (21) EP20200342.2 (47) 12.07.2023 (22) 06.10.2020
(54) VEHICLE HEATING SYSTEM	(54) A LID ARRANGEMENT FOR A CANISTER FOR A ROLLUP TRUCK BED COVER	(54) A WHEELBASE STRUCTURE (73) VOLVO TRUCK CORPORATION (72) BJÖRKMAN, Gunnar KARLSSON, Viktor
(73) Eberspächer Climate Control Systems GmbH (72) Jensen, Hans Barthel, Frank Roppelt, Oliver Peitz, Maximilian	(73) Mountain Top (Denmark) ApS (72) SZABOLCS, Feigler VOETMANN, Thomas, Rendbeck HANSEN, Peter, Singer	(51) B60J 7/04 B60J 7/06 (11) EP3969305 (21) EP20725508.4 (47) 12.07.2023 (87) EP2020063028 19.11.2020 (22) 11.05.2020
(31) 102018107216 102018105585 (32) 27.03.2018 12.03.2018 (33) Germany Germany	(54) SLAT CONNECTING SYSTEM FOR A ROLL-UP TRUCK BED COVER	(51) B60K 5/08
(51) B60H 1/32 (11) EP3735359 (21) EP18839885.3 (47) 12.07.2023 (87) IB2018060677 11.07.2019		
(22) 28.12.2018 (54) AIR CONDITIONER FOR MOTOR VEHICLES		
(73) Barin, Luca (72) Barin, Luca (31) 201800000051 (32) 02.01.2018 (33) Italy		

B60K 6/48	(11) EP3245085	(72) TAKAIRA, Koji
B60W 20/10	(21) EP15804672.2	TABATA, Atsushi
B60W 50/00	(47) 12.07.2023	AKIYAMA, Yosuke
B60K 6/24	(87) EP2015002376	HOMAN, Akinori
B60K 6/365	21.07.2016	IJICHI, Akira
(11) EP3245085	(22) 26.11.2015	OKUDA, Koichi
(21) EP15804672.2	(54) DRIVE DEVICE FOR A MOTOR	USUI, Kunihiko
(47) 12.07.2023	VEHICLE AND MOTOR VEHICLE	(31) 2021032911
(87) EP2015002376	(73) Audi AG	(32) 02.03.2021
21.07.2016	(72) STÖRMER, Markus	(33) Japan
(22) 26.11.2015	(31) 102015000466	<hr/>
(54) DRIVE DEVICE FOR A MOTOR	(32) 15.01.2015	(51) B60K 35/00
VEHICLE AND MOTOR VEHICLE	(33) Germany	(11) EP3931026
(73) Audi AG	(51) B60K 6/40	(21) EP20706449.4
(72) STÖRMER, Markus	B60K 6/405	(47) 12.07.2023
(31) 102015000466	B60K 6/442	(87) EP2020054319
(32) 15.01.2015	B60K 6/387	03.09.2020
(33) Germany	F16H 57/04	(22) 19.02.2020
<hr/>	(11) EP3807112	(54) METHOD FOR OPERATING A DRIVER
(51) B60K 6/40	(21) EP19731135.0	INFORMATION SYSTEM IN AN EGO-
B60K 6/405	(47) 12.07.2023	VEHICLE AND DRIVER INFORMATION
B60K 6/442	(87) DE2019100475	SYSTEM
B60K 6/387	19.12.2019	(73) VOLKSWAGEN
F16H 57/04	(22) 29.05.2019	AKTIENGESELLSCHAFT
(11) EP3807112	(54) DRIVE UNIT FOR A POWERTRAIN	(72) SEITZ, Gordon
(21) EP19731135.0	OF AN ELECTRICALLY DRIVEABLE	(31) 102019202591
(47) 12.07.2023	MOTOR VEHICLE, AND DRIVE	(32) 26.02.2019
(87) DE2019100475	ASSEMBLY	(33) Germany
19.12.2019	(73) Schaeffler Technologies GmbH & Co. KG	<hr/>
(22) 29.05.2019	(72) HUBER, Lionel	(51) B60K 35/00
(54) DRIVE UNIT FOR A POWERTRAIN	STOBER, Benjamin	B60K 37/06
OF AN ELECTRICALLY DRIVEABLE	(31) 102018114382	G05G 1/08
MOTOR VEHICLE, AND DRIVE	(32) 15.06.2018	G06F 3/038
ASSEMBLY	(33) Germany	G06F 3/041
(73) Schaeffler Technologies GmbH & Co. KG	<hr/>	G06F 3/044
(72) HUBER, Lionel	(51) B60K 17/28	G06F 3/0362
STOBER, Benjamin	B60K 17/34	(11) EP3519230
(31) 102018114382	B60K 6/20	(21) EP17771789.9
(32) 15.06.2018	B60K 6/387	(47) 12.07.2023
(33) Germany	B60K 6/48	(87) EP2017074719
<hr/>	B60K 6/485	05.04.2018
(51) B60K 6/48	B60W 20/16	(22) 28.09.2017
B60K 6/387	B60W 20/40	(54) INTERFACE FOR A MOTOR VEHICLE
B60K 6/543	B60W 30/188	(73) DAV
B60K 6/547	(11) EP3771581	(72) AUBRY, Anthony
B60W 20/00	(21) EP20188503.5	VANHILLE, Stéphane
B60W 10/30	(47) 12.07.2023	(31) 1659250
B60W 10/02	(22) 30.07.2020	(32) 28.09.2016
B60W 10/08	(54) A VEHICLE SYSTEM FOR USE IN	(33) France
B60W 10/06	CONFINED BUILDINGS	<hr/>
B60W 10/107	(73) CNH Industrial Italia S.p.A.	(51) B60L 1/00
B60W 10/115	(72) Tenneriello, Luigi	B60L 15/32
F16H 61/02	(31) 201900013389	B61L 15/00
F16H 61/662	(32) 31.07.2019	G01R 31/00
F16H 63/50	(33) Italy	B60L 3/12
F16H 57/04	<hr/>	(11) EP3829917
(11) EP3231680	(51) B60K 17/346	(21) EP19769071.2
(21) EP15867907.6	B60K 6/20	(47) 12.07.2023
(47) 12.07.2023	B60K 6/365	(87) EP2019073388
(87) JP2015084711	B60K 6/387	02.04.2020
16.06.2016	B60K 6/48	(22) 03.09.2019
(22) 10.12.2015	B60K 6/52	(54) APPARATUS AND METHOD FOR
(54) POWER TRANSMITTING DEVICE FOR	B60K 23/08	POWER SUPPLY TO A SENSOR
HYBRID VEHICLE	(11) EP4052947	DEVICE IN A RAIL VEHICLE
(73) Kabushiki Kaisha F.C.C.	(21) EP21213404.3	(73) Siemens Mobility GmbH
(72) OHASHI, Tatsuyuki	(47) 12.07.2023	(72) WOKUSCH, Simon Matthias
(31) 2014251321	(22) 09.12.2021	KÖRNER, Olaf
(32) 11.12.2014	(54) VEHICLE DRIVE SYSTEM AND	(31) 102018216436
(33) Japan	CONTROL METHOD THEREFOR	(32) 26.09.2018
<hr/>	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	(33) Germany
(51) B60K 7/00		(51) B60L 1/00

H02J 7/00	(72) LA MENDOLA, Andrea	(33) United States of America
H02J 9/00	BABAZADEH, Amir	(51) B60N 2/28
B60L 3/12	SADEGHI, Siavash	(11) EP3974249
(11) EP3805034	(31) 201916584002	(21) EP21189216.1
(21) EP20827978.6	(32) 26.09.2019	(47) 12.07.2023
(47) 12.07.2023	(33) United States of America	(22) 02.08.2021
(87) CN2020096414	(51) B60L 53/12	(54) ROTATION BASE AND CARSEAT
18.02.2021	B60L 53/22	(73) Maxi Miliaan B.V.
(22) 16.06.2020	(11) EP3539814	(72) HUANG, Haixing
(54) WAKE-UP CIRCUIT AND	(21) EP19159643.6	TIAN, Weijiu
RECHARGEABLE DEVICE	(47) 12.07.2023	DU, Yuan
(73) Contemporary Ampere Technology Co.,	(22) 27.02.2019	YANG, Wencong
Limited	(54) LOADING ASSEMBLY FOR MOTOR	(31) 202021596164 U
(72) ZHOU, Fangjie	VEHICLES WITH SHIFT CONTROL ON	(32) 04.08.2020
CAI, Fupeng	THE RECEIVER SIDE	(33) China
YAN, Zhiwei	(73) Zollner Elektronik AG	(51) B60N 2/68
YAN, Lidan	(72) Jetz, Markus	B60N 2/64
HE, Xin	(31) 102018105608	B60N 2/70
YE, Fuming	(32) 12.03.2018	B60N 2/42
(31) 201921297373 U	(33) Germany	B60R 21/207
(32) 12.08.2019	(51) B60M 1/30	(11) EP4001004
(33) China	(11) EP3369607	(21) EP20208706.0
(51) B60L 3/00	(21) EP18155493.2	(47) 12.07.2023
B60L 50/60	(47) 12.07.2023	(22) 19.11.2020
(11) EP4124495	(22) 07.02.2018	(54) VEHICLE UPPER SEAT PORTION
(21) EP22186701.3	(54) BUSBAR SYSTEM	WITH FAR SIDE AIRBAG MODULE
(47) 12.07.2023	(73) REHAU Industries SE & Co. KG	(73) Volvo Car Corporation
(22) 25.07.2022	(72) Deistler, Thomas	(72) Setterberg, Peter
(54) VEHICLE CONTROL UNIT AND	Meinel, Udo	Bhagatkar, Buddhadeep
VEHICLE CONTROL SYSTEM	(31) 202017101187 U	(51) B60N 2/75
(73) Yazaki Corporation	(32) 02.03.2017	B61D 33/00
(72) Sato, Kazuya	(33) Germany	B64D 11/06
(31) 2021123576	(51) B60N 2/07	B60N 2/02
(32) 28.07.2021	B60N 2/90	(11) EP3590759
(33) Japan	B60N 2/56	(21) EP19182841.7
(51) B60L 9/28	B60R 16/027	(47) 12.07.2023
B60L 50/13	B60R 21/015	(22) 27.06.2019
B60L 50/15	B60R 16/023	(54) PASSENGER SEAT OF A TRANSPORT
B60M 3/06	B60R 16/03	VEHICLE AND TRANSPORT VEHICLE
B61C 9/24	B60N 2/02	EQUIPPED WITH SUCH SEATS
(11) EP4100275	(11) EP4005866	(73) SNCF Mobilités
(21) EP21712965.9	(21) EP20210712.4	(72) LABARRE, Jérôme
(47) 12.07.2023	(47) 12.07.2023	JOUANNY, Franck
(87) EP2021055524	(22) 30.11.2020	(31) 1856113
28.10.2021	(54) SEAT LONGITUDINAL ADJUSTMENT	(32) 03.07.2018
(22) 04.03.2021	DEVICE, METHOD TO ADJUST A	(33) France
(54) ARRANGEMENT AND METHOD FOR	SEAT AND VEHICLE WITH SUCH A	(51) B60P 3/08
CARRYING OUT A SELF-LOAD TEST	SEAT LONGITUDINAL ADJUSTMENT	(11) EP4063192
ON A RAIL VEHICLE	DEVICE.	(21) EP22164151.7
(73) Siemens Mobility GmbH	(73) IMS Gear SE & Co. KGaA	(47) 12.07.2023
(72) BEDAU, Christian	(72) Zahn, Patrick	(22) 24.03.2022
SCHURR, Jürgen	Werschler, Marco	(54) VEHICLE FOR TRANSPORTING
(31) 102020205179	Teichmann, Robin	LOADS COMPRISING AN ASSEMBLY
(32) 23.04.2020	Mittelbach, Marcel	FOR MOVING A LOAD
(33) Germany	(51) B60N 2/225	(73) Lohr Industrie
(51) B60L 13/03	B60N 2/235	(72) SCHEER, Daniel
E01B 25/30	(11) EP3947030	ANDRE, Jean-Luc
B60L 15/20	(21) EP20735844.1	(31) 2103081
B60L 13/04	(47) 12.07.2023	(32) 26.03.2021
(11) EP3798043	(87) US2020070153	(33) France
(21) EP20189959.8	24.12.2020	(51) B60Q 1/04
(47) 12.07.2023	(22) 18.06.2020	B60Q 1/46
(22) 07.08.2020	(54) SELF-BIASING RECLINER CROSS-	(11) EP3164297
(54) MAGNETIC LEVITATION TRAIN	TALK TUBE COUPLER	(21) EP15722543.4
SYSTEM WITH AN ASYMMETRICAL	(73) Magna Seating Inc.	(47) 12.07.2023
POWER DISTRIBUTION	(72) VETERE II, Louis	(87) EP2015060835
(73) Hyperloop Transportation Technologies,	(31) 201962863353 P	07.01.2016
Inc.	(32) 19.06.2019	

(22) 18.05.2015	(22) 23.12.2016	(87) CN2018113666
(54) COMPOSITE ASSEMBLY OF A MOTOR VEHICLE LIGHTING SYSTEM	(54) INTENTION SIGNALING FOR AN AUTONOMOUS VEHICLE	16.05.2019
(73) Volkswagen Aktiengesellschaft	(73) UATC, LLC	(22) 02.11.2018
(72) SIMANEK, Ralf	(72) SWEENEY, Matthew	(54) INTERIOR TRIM PANEL OF VEHICLE PILLAR, AND VEHICLE
LOOSE, Christoph	ROSS, William Payne	(73) NIO (Anhui) Holding Co., Ltd.
(31) 102014218733	LIU, Chenggang	(72) XING, Zhe
102014212894	PILARSKI, Thomas	LV, Shengye
(32) 18.09.2014	(31) 201615143198	(31) 201721475972 U
03.07.2014	201615050237	(32) 07.11.2017
(33) Germany	(32) 29.04.2016	(33) China
Germany	22.02.2016	(51) B60R 16/02
(51) B60Q 1/08	(33) United States of America	H02G 3/04
F21S 41/663	United States of America	(11) EP4026735
(11) EP2168812	(51) B60R 1/00	(21) EP22150691.8
(21) EP09170794.3	G06F 3/01	(47) 12.07.2023
(47) 12.07.2023	(11) EP3915837	(22) 10.01.2022
(22) 21.09.2009	(21) EP20465526.0	(54) WIRE HARNESS ROUTING METHOD, WIRE HARNESS ROUTING
(54) LIGHTING SYSTEM FOR AN AUTOMOBILE CAPABLE OF MODIFYING THE EMISSION OF A LOW BEAM LIGHT	(47) 12.07.2023	STRUCTURE, AND WIRE HARNESS
(73) VALEO VISION	(22) 26.05.2020	PROTECTOR
(72) Reiss, Benoît	(54) METHOD FOR ADAPTING A DISPLAYED VIEW OF A DIGITAL MIRROR SYSTEM OF A VEHICLE AND DIGITAL MIRROR SYSTEM OF A VEHICLE	(73) Yazaki Corporation
(31) 0805331	(73) Continental Automotive Technologies GmbH	(72) Tokuda, Tatsuya
(32) 26.09.2008	(72) Pop, Sebastian	Karaki, Takuya
(33) France	(51) B60R 9/045	(31) 2021002958
(51) B60Q 1/14	(11) EP3988395	(32) 12.01.2021
B60Q 1/18	(21) EP20203157.1	(33) Japan
B60Q 1/24	(47) 12.07.2023	(51) B60R 21/215
G08G 1/16	(22) 21.10.2020	B60R 21/2165
(11) EP3960541	(54) HEIGHT ADJUSTABLE FRAME FOR TENT FIXED ON THE ROOF OF A VEHICLE	(11) EP3833580
(21) EP20193275.3	(73) STF Consulting GmbH	(21) EP19755555.0
(47) 12.07.2023	(72) FAES, Stefan	(47) 12.07.2023
(22) 28.08.2020	(51) B60R 11/04	(87) EP2019071020
(54) VEHICLE SURROUNDINGS OBJECT DETECTION IN LOW LIGHT CONDITIONS	G01C 15/00	13.02.2020
(73) Zenuity AB	G01C 21/28	(22) 05.08.2019
(72) LANDFORS, Per	G05D 1/02	(54) COVERING CAP FOR AN AIRBAG MODULE AND AIRBAG MODULE HAVING SUCH A COVERING CAP
HARDÅ, Peter	G06T 7/246	(73) Dalphi Metal España, S.A.
(51) B60Q 1/26	G06V 10/25	(72) GONZÁLEZ HORTA, Victor, José
B60R 19/02	G06V 10/82	JONIETZ, Andreas, Joachim, Maria
B60R 19/24	G06V 20/56	BARANDELA IGLESIAS, Luis
B60R 19/48	G06V 10/764	PEREIRO COTO, Pedro
B60R 19/18	G06F 18/2413	(31) 202018104587 U
(11) EP3947040	(11) EP3433131	(32) 09.08.2018
(21) EP20728116.3	(21) EP17771141.3	(33) Germany
(47) 12.07.2023	(47) 12.07.2023	(51) B60R 21/2165
(87) FR2020050596	(87) US2017023781	B60R 21/215
08.10.2020	28.09.2017	(11) EP3833581
(22) 19.03.2020	(22) 23.03.2017	(21) EP19755838.0
(54) DEVICE AND METHOD FOR THE ISOSTATIC MOUNTING OF A HEADLAMP AND A BUMPER, MOUNTED ON A COMMON SUPPORT, ON THE BODY OF A MOTOR VEHICLE	(54) ADVANCED PATH PREDICTION	(47) 12.07.2023
(73) PSA Automobiles SA	(73) NETRADYNE, INC.	(87) EP2019071027
(72) BRIAND, Sebastien	(72) AGRAWAL, Avneesh	13.02.2020
(31) 1903354	ANNAPUREDDY, Venkata Sreekanta, Reddy	(22) 05.08.2019
(32) 29.03.2019	JULIAN, David, Jonathan	(54) COVERING CAP FOR AN AIRBAG MODULE AND AIRBAG MODULE HAVING A COVERING CAP OF THIS TYPE
(33) France	(31) 201662312445 P	(73) Dalphi Metal España, S.A.
(51) B60Q 1/50	(32) 23.03.2016	(72) PEREIRO COTO, Pedro
(11) EP3416862	(33) United States of America	JONIETZ, Andreas, Joachim, Maria
(21) EP16891890.2	(51) B60R 13/02	BARANDELA IGLESIAS, Luis
(47) 12.07.2023	B62D 27/06	GONZÁLEZ HORTA, Victor, José
(87) US2016068563	(11) EP3708433	(31) 202018104588 U
31.08.2017	(21) EP18875824.7	(32) 09.08.2018
	(47) 12.07.2023	(33) Germany
		(51) B60R 21/231
		B60R 21/237

B60R 21/214	(21) EP20184499.0	LOUCA, Sebastian
B60R 21/2338	(47) 12.07.2023	(31) 102019113753
(11) EP3697649	(22) 07.07.2020	(32) 23.05.2019
(21) EP18785909.5	(54) BRAKE HANDLE DEVICE AND	(33) Germany
(47) 12.07.2023	ELECTRIC TRACTOR	(51) B60T 13/66
(87) EP2018077331	(73) Intradin (Shanghai) Machinery Co., Ltd.	B60T 13/68
25.04.2019	(72) WANG, Junliang	(11) EP4058334
(22) 08.10.2018	(31) 201922070906 U	(21) EP20800635.3
(54) VEHICLE PASSENGER RESTRAINT	(32) 26.11.2019	(47) 12.07.2023
SYSTEM COMPRISING AN AIRBAG	(33) China	(87) EP2020080638
MODULE	(51) B60T 8/36	20.05.2021
(73) Dalphi Metal España, S.A.	B60T 8/173	(22) 02.11.2020
(72) NAVARRO ARRANZ, Antonio	(11) EP3867112	(54) ELECTRO-PNEUMATIC CONTROL
RAMOS AGUSTÍN, Ramón	(21) EP19782561.5	MODULE
(31) 102017124577	(47) 12.07.2023	(73) ZF CV Systems Europe BV
(32) 20.10.2017	(87) EP2019076519	(72) KLOSTERMANN, Thilo
(33) Germany	23.04.2020	VAN THIEL, Julian
(51) B60R 21/232	(22) 01.10.2019	(31) 102019130762
B60R 21/2334	(54) ACTUATOR MODULE AND METHOD	(32) 14.11.2019
(11) EP3883822	FOR MEASURING AND PROCESSING	(33) Germany
(21) EP19805965.1	A DRIVING DYNAMICS VARIABLE OF A	(51) B60T 13/68
(47) 12.07.2023	VEHICLE	(11) EP3938258
(87) EP2019081847	(73) ZF CV Systems Europe BV	(21) EP20725891.4
28.05.2020	(72) VAN THIEL, Julian	(47) 12.07.2023
(22) 19.11.2019	(31) 102018126094	(87) FR2020050525
(54) VEHICLE WITH VEHICLE SAFETY	(32) 19.10.2018	17.09.2020
SYSTEM	(33) Germany	(22) 12.03.2020
(73) Dalphi Metal España, S.A.	(51) B60T 13/26	(54) BRAKING SYSTEM FOR RAILWAY
(72) SANTÍN NAVARRO, Pedro, José	B60T 15/02	VEHICLE PROVIDED WITH A DISPLA
(31) 102018128987	B60T 15/04	SHOWING THE STATRE OF A
(32) 19.11.2018	B60T 15/54	SERVICE OR PARKING BRAKE AND
(33) Germany	B60T 15/18	VEHICLE PROVIDED WITH SAID
(51) B60R 21/26	B60T 15/36	BRAKING SYSTEM
B60R 21/272	(11) EP4003799	(73) Faiveley Transport Amiens
(11) EP3891025	(21) EP20736968.7	(72) FROMONT, Vincent
(21) EP19804631.0	(47) 12.07.2023	LESAGE, Stéphane
(47) 12.07.2023	(87) EP2020068639	(31) 1902641
(87) EP2019078987	28.01.2021	(32) 14.03.2019
11.06.2020	(22) 02.07.2020	(33) France
(22) 24.10.2019	(54) RELAY VALVE FOR A PNEUMATIC	(51) B60T 17/08
(54) GAS GENERATOR, AIRBAG MODULE,	BRAKE UNIT	B60T 17/22
VEHICLE SAFETY SYSTEM AND	(73) ZF CV Systems Europe BV	(11) EP3964411
METHOD FOR PRODUCING A GAS	(72) SCHAPPLER, Hartmut	(21) EP20194048.3
GENERATOR	OESER, Christian	(47) 12.07.2023
(73) ZF Airbag Germany GmbH	BEIER, Peter	(22) 02.09.2020
(72) KOLBIN, Vadim	(31) 102019119808	(54) BRAKE RELEASE MECHANISM
ENGLBRECHT, Karl	(32) 23.07.2019	FOR A SPRING BRAKE ACTUATOR
(31) 102018131323	(33) Germany	AND SPRING BRAKE ACTUATOR
(32) 07.12.2018	(51) B60T 13/66	COMPRISING SUCH BRAKE RELEASE
(33) Germany	B60T 8/17	MECHANISM
(51) B60T 7/04	B60T 8/88	(73) ZF CV Systems Europe BV
B60T 15/04	B60T 8/92	(72) ZYGADLO, Krzysztof
(11) EP3956187	B60T 17/22	FRANCZUK, Michal
(21) EP20724346.0	B60T 8/32	(51) B60T 17/22
(47) 12.07.2023	B60T 7/12	(11) EP3904170
(87) US2020028683	B60T 8/36	(21) EP20171695.8
22.10.2020	B61H 1/00	(47) 12.07.2023
(22) 17.04.2020	(11) EP3972879	(22) 28.04.2020
(54) ELECTRO-HYDRAULIC MODULATING	(21) EP20730977.4	(54) BRAKE OPERATION DEVICE
VALVE PEDAL ASSEMBLY	(47) 12.07.2023	(73) KNORR-BREMSE Systeme für
(73) ZF Off-Highway Solutions Minnesota Inc.	(87) EP2020063460	Nutzfahrzeuge GmbH
(72) TOMHAVE, Derek	26.11.2020	(72) BLESSING, Michael
(31) 201962835215 P	(22) 14.05.2020	MLINARCSEK, Csaba
(32) 17.04.2019	(54) EMERGENCY BRAKE VALVE FOR A	POUR, Benedek
(33) United States of America	PNEUMATICAL BRAKE SYSTEM	KOKREHEL, Csaba
(51) B60T 7/10	(73) KNORR-BREMSE Systeme für	BUCH, Andreas
B62L 3/02	Schienenfahrzeuge GmbH	PAHLE, Wolfgang
(11) EP3828043	(72) SCHMIDT, Maximilian	NEMETH, Huba

KISS, Dávid	B60R 1/27	DUNN, Stephan Franklin
SZABO, Janos	(11) EP4015329	VERMA, Pratik
(51) B60T 17/22	(21) EP21820068.1	JULIAN, David Jonathan
B60T 13/68	(47) 12.07.2023	(31) 202163182735 P
B60T 8/94	(87) CN2021099222	(32) 30.04.2021
B60T 8/32	28.04.2022	(33) United States of America
(11) EP3774469	(22) 09.06.2021	(51) B60W 50/00
(21) EP19720051.2	(54) INTERACTION METHOD AND	B60L 3/10
(47) 12.07.2023	APPARATUS FOR AUTOMATIC	B60L 15/20
(87) EP2019057315	PARKING OF VEHICLE	B60T 8/1755
10.10.2019	(73) Guangzhou Xiaopeng Motors Technology	B60W 20/00
(22) 22.03.2019	Co., Ltd.	B60W 30/02
(54) ELECTRO-PNEUMATIC TWO-	(72) HUANG, Yeting	B60W 30/045
CHANNEL AXLE MODULATOR HAVING	(31) 202011150491	B62D 6/00
A CHANNEL FOR THE FRONT AXLE	(32) 23.10.2020	(11) EP4032738
AND A CHANNEL FOR THE REAR	(33) China	(21) EP22152925.8
AXLE	(51) B60W 30/16	(47) 12.07.2023
(73) ZF CV Systems Europe BV	B60W 20/00	(22) 24.01.2022
(72) VAN THIEL, Julian	B60W 30/18	(54) VEHICLE CONTROL SYSTEM
(31) 102018108092	B60W 10/02	(73) MAZDA MOTOR CORPORATION
(32) 05.04.2018	B60W 10/06	(72) Umetsu, Daisuke
(33) Germany	(11) EP3554908	Sunahara, Osamu
(51) B60W 10/26	(21) EP17816559.3	Ogawa, Daisaku
B60K 6/48	(47) 12.07.2023	(31) 2021009459
B60K 6/543	(87) EP2017080815	(32) 25.01.2021
B60L 50/16	21.06.2018	(33) Japan
B60L 50/60	(22) 29.11.2017	(51) B60W 50/04
B60W 20/13	(54) METHOD FOR THE OPEN-LOOP AND/	B60W 30/095
H01M 10/44	OR CLOSED-LOOP CONTROL OF A	B60W 50/032
H01M 10/48	POWERTRAIN OF A MOTOR VEHICLE	(11) EP3766753
(11) EP3825193	(73) Volkswagen Aktiengesellschaft	(21) EP19766957.5
(21) EP19838539.5	(72) DICK, Vitali	(47) 12.07.2023
(47) 12.07.2023	WEISS, Norbert	(87) JP2019008271
(87) JP2019021442	THIAMTONG, Vasoontara	19.09.2019
23.01.2020	(31) 102016224931	(22) 04.03.2019
(22) 30.05.2019	(32) 14.12.2016	(54) ABNORMALITY DIAGNOSIS SYSTEM
(54) POWER CONTROL DEVICE AND	(33) Germany	AND ABNORMALITY DIAGNOSIS
POWER CONTROL METHOD FOR	(51) B60W 30/16	METHOD
HYBRID VEHICLE	B60W 30/165	(73) Hitachi Astemo, Ltd.
(73) Bosch Corporation	B60W 50/14	(72) EBINA, Tomohito
(72) YUKAWA, Masashi	G08G 1/00	SERIZAWA, Kazuyoshi
(31) 2018136689	H04W 4/46	NARISAWA, Fumio
(32) 20.07.2018	(11) EP4055574	(31) 2018045736
(33) Japan	(21) EP20801192.4	(32) 13.03.2018
(51) B60W 20/12	(47) 12.07.2023	(33) Japan
B60W 50/14	(87) EP2020080628	(51) B60W 50/08
B60W 10/06	14.05.2021	B60W 50/00
B60W 10/08	(22) 02.11.2020	(11) EP3409551
B60W 10/26	(54) METHOD FOR CONTROLLING	(21) EP18155937.8
B60W 20/15	A VEHICLE AND DISTANCE	(47) 12.07.2023
B60W 50/08	REGULATION CONTROL DEVICE	(22) 09.02.2018
(11) EP3974269	(73) ZF CV Systems Global GmbH	(54) METHOD AND DEVICE FOR
(21) EP21192080.6	(72) DIECKMANN, Thomas	SUPPORTING A VEHICLE OCCUPANT
(47) 12.07.2023	(31) 102019130201	LOCATED IN A VEHICLE
(22) 19.08.2021	(32) 08.11.2019	(73) VOLKSWAGEN
(54) HYBRID VEHICLE	(33) Germany	AKTIENGESELLSCHAFT
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	(51) B60W 40/09	(72) Kampermann, Jens
(72) OGAWA, Yuki	B60W 50/14	Gehrling, Sebastian
(31) 2020158502	(11) EP4126620	Zielinski, Ernst
(32) 23.09.2020	(21) EP22721152.1	Ali, Ahmed
(33) Japan	(47) 12.07.2023	Klomp, Sven
(51) B60W 30/06	(87) US2022020736	Köse, Esref
B60W 50/00	03.11.2022	Jürgensmeier, Sandra
B60W 50/14	(22) 17.03.2022	Apfel, Jessica
B60K 35/00	(54) COACHABLE DRIVER RISK GROUPS	Theimer, Wolfgang
B60K 37/06	(73) Netradyn, Inc.	Strygulec, Sarah
B60R 1/00	(72) NAG, Anirban	(31) 102017208971
G06V 20/58	AHIRE, Parag	(32) 29.05.2017

(33) Germany	(51) B61B 12/06	(54) LOCK MECHANISM FOR IMPROVED
(51) B60W 50/10	B61B 12/02	DOOR PANEL SEAL
B60W 20/15	(11) EP3914497	(73) Westinghouse Air Brake Technologies
B60W 30/18	(21) EP20711836.5	Corporation
B60W 20/14	(47) 12.07.2023	(72) STOJC, Andre
B60W 50/00	(87) EP2020056305	FILION, Daniel
(11) EP3888990	17.09.2020	(31) 201662318824 P
(21) EP20192998.1	(22) 10.03.2020	(32) 06.04.2016
(47) 12.07.2023	(54) PASSAGE DETECTION FOR A	(33) United States of America
(22) 27.08.2020	CABLEWAY	(51) B61D 27/00
(54) METHOD AND APPARATUS FOR	(73) Innova Patent GmbH	(11) EP3674169
CONTROLLING VEHICLE DRIVING	(72) PFEIFER, Daniel	(21) EP18847329.2
DEPENDING ON BABY MODE	MOHNI, Adrian	(47) 12.07.2023
(73) HYUNDAI MOTOR COMPANY	(31) 502002019	(87) CN2018085649
Kia Corporation	(32) 11.03.2019	28.02.2019
(72) JO, Kyu Hwan	(33) Austria	(22) 04.05.2018
SON, Hui Un	(51) B61C 15/10	(54) AUTOMATIC EXHAUST AIR DOOR
KIM, Joo Young	(11) EP3912878	CONTROL DEVICE AND VEHICLE
YU, Sung Hoon	(21) EP21175817.2	BODY HAVING SAME
KIM, Sang Joon	(47) 12.07.2023	(73) CRRQ Qingdao Sifang Co., Ltd.
(31) 20200040968	(22) 25.05.2021	(72) LIN, Peng
(32) 03.04.2020	(54) METHOD AND SYSTEM FOR VEHICLE	DING, Sansan
(33) Korea (Republic)	TRACTION	LIU, Shaoqing
(51) B60W 60/00	(73) Transportation IP Holdings, LLC	LI, Yunfeng
B60W 30/18	(72) Rao Gadipudi, Poornachandra	CHEN, Dawei
(11) EP3822141	Verma, Rajeev	YAO, Shuanbao
(21) EP19209642.8	(31) 202063028965 P	ZHANG, Conghui
(47) 12.07.2023	(32) 22.05.2020	JIANG, Xin
(22) 18.11.2019	(33) United States of America	(31) 201710725860
(54) OPERATIONAL DESIGN DOMAIN	(51) B61D 17/10	(32) 22.08.2017
VALIDATION COVERAGE FOR	B61D 27/00	(33) China
ADJACENT LANE RELATIVE VELOCITY	B60H 1/00	(51) B61D 27/00
(73) Zenuity AB	(11) EP4067195	B60H 1/00
(72) JONSSON, Jonathan	(21) EP22164709.2	(11) EP3825200
WESTLUND, Mathias	(47) 12.07.2023	(21) EP20207405.0
(51) B61B 9/00	(22) 28.03.2022	(47) 12.07.2023
B61B 13/02	(54) SYSTEM FOR DISTRIBUTING	(22) 13.11.2020
(11) EP3554912	AIR WITHIN A PASSENGER	(54) METHOD AND SYSTEM FOR
(21) EP17808932.2	COMPARTMENT OF A TRANSPORT	MONITORING A CO2 SENSOR
(47) 12.07.2023	VEHICLE	MOUNTED ON A RAILWAY
(87) EP2017081545	(73) SpeedInnov	TRANSPORT VEHICLE
21.06.2018	(72) BEAUSEIGNEUR, Christophe	(73) SNCF Voyageurs
(22) 05.12.2017	(31) 2103248	(72) Planchette, Loic
(54) TRANSPORT SYSTEM COMPRISING A	(32) 30.03.2021	Goeres, David
CABLE-DRAWN VEHICLE	(33) France	(31) 1912878
(73) Innova Patent GmbH	(51) B61D 17/20	(32) 19.11.2019
(72) WOHLGENANNT, Kuno	B61D 17/10	(33) France
(31) 5682016	B60D 5/00	(51) B61D 27/00
(32) 15.12.2016	(11) EP3912880	F24F 11/32
(33) Austria	(21) EP20175140.1	F24F 11/50
(51) B61B 12/02	(47) 12.07.2023	(11) EP3967567
F16C 27/06	(22) 18.05.2020	(21) EP19927958.9
F16F 1/38	(54) TRANSITION PLATFORM OF A	(47) 12.07.2023
(11) EP3530539	TRANSITION WITH A FOOTPLATE	(87) JP2019018274
(21) EP19156811.2	AND TRANSITION WITH SUCH A	12.11.2020
(47) 12.07.2023	TRANSITION PLATFORM	(22) 07.05.2019
(22) 13.02.2019	(73) Hübner GmbH & Co. KG	(54) AIR-CONDITIONING CONTROL
(54) TRANSPORT FACILITY FOR VEHICLES	(72) Baake, Achim	SYSTEM FOR RAILROAD VEHICLE
COMPRISING A DEVICE FOR	(51) B61D 19/00	(73) MITSUBISHI ELECTRIC
SUPPORTING AND GUIDING AN	B61D 19/02	CORPORATION
AERIAL CABLE AND METHOD FOR	E05F 15/638	(72) Hattori, Takashi
MANUFACTURING THE DEVICE	E05F 15/652	Ono, Yoshitaka
(73) POMA	(11) EP3439938	Miyazaki, Yasuyuki
(72) MUGNIER, Jean-François	(21) EP17779707.3	(51) B61F 9/00
(31) 1851651	(47) 12.07.2023	B61L 15/00
(32) 26.02.2018	(87) US2017026057	(11) EP3847074
(33) France	12.10.2017	(21) EP19801689.1
	(22) 05.04.2017	(47) 12.07.2023

(87) EP2019079061 07.05.2020	TRAIN WITHIN A TRAIN CONTROL SYSTEM	(72) GOTTSCHALK, Michael
(22) 24.10.2019	(73) GTS Deutschland GmbH	(51) B62D 21/15
(54) METHOD AND DEVICE FOR DETECTING A DERAILMENT STATE OF A RAIL VEHICLE	(72) DE LA SIERRA APARICIO, Maria de los Angeles WIPPLINGER, Gerhard	B62D 25/08
(73) Siemens Mobility Austria GmbH	(51) B62B 3/00	(11) EP3808636
(72) SIMON, Johannes KITZMÜLLER, Christian KOLLER, Andreas	B62B 3/10	(21) EP20200924.7
(31) 509362018	F24B 15/00	(47) 12.07.2023
(32) 31.10.2018	(11) EP3585670	(22) 09.10.2020
(33) Austria	(21) EP18705554.6	(54) FRONT VEHICLE-BODY STRUCTURE OF VEHICLE AND VEHICLE
(51) B61G 3/04	(47) 12.07.2023	(73) MAZDA MOTOR CORPORATION
(11) EP3976436	(87) EP2018052483	(72) WATANABE, Shigeaki
(21) EP20724471.6	30.08.2018	TASHIRO, Kuniyoshi
(47) 12.07.2023	(22) 01.02.2018	(31) 2019190473
(87) EP2020062493 03.12.2020	(54) TRANSPORTABLE FIREWOOD STORAGE WITH FIREWOOD HOLDER WITH TRANSPORT ROLLERS	(32) 17.10.2019
(22) 06.05.2020	(73) Landwehr, Arno	(33) Japan
(54) TRACTION COUPLING	(72) Landwehr, Arno	(51) B62D 25/02
(73) Voith Patent GmbH	(31) 102017103611	B60J 5/04
(72) DEREYMAEKER, Yves SHI, Minzhe DEAC, Ioan	(32) 22.02.2017	(11) EP3569481
(31) 102019114237	(33) Germany	(21) EP19173444.1
(32) 28.05.2019	(51) B62D 5/04	(47) 12.07.2023
(33) Germany	B62D 7/06	(22) 09.05.2019
(51) B61G 5/10	B62D 7/18	(54) SIDE BODY VEHICLE STRUCTURE, AND VEHICLE
(11) EP4019367	B62D 7/15	(73) Mazda Motor Corporation
(21) EP21216480.0	(11) EP3967575	(72) YAMADA, Morihide
(47) 12.07.2023	(21) EP21195189.2	KOGA, Toshiyuki
(22) 21.12.2021	(47) 12.07.2023	TAKEBAYASHI, Toshihiro
(54) TRAIN COUPLER, SYSTEM AND METHOD FOR AUTOMATIC COUPLING TRAINS, AND RELATED TRAIN	(22) 07.09.2021	HATANNO, Kazuhisa
(73) ALSTOM Holdings	(54) STEERING DEVICE OF INDEPENDENT DRIVE WHEEL AND INDEPENDENT DRIVE MODULE INCLUDING SAME	MURAOKA, Shuji
(72) UPADHYAY, Ashwani	(73) Hyundai Mobis Co., Ltd.	MATSUDA, Yamato
(31) 202041056241	(72) Min, Kyongwon	(31) 2018093166
(32) 24.12.2020	(31) 20200115579	(32) 14.05.2018
(33) India	(32) 09.09.2020	(33) Japan
(51) B61G 7/00	(33) Korea (Republic)	(51) B62D 25/04
B61G 7/10	(51) B62D 7/04	(11) EP3880540
(11) EP3793880	B62D 7/15	(21) EP19818203.2
(21) EP19725676.1	B62D 11/04	(47) 12.07.2023
(47) 12.07.2023	(11) EP3573877	(87) FR2019052601
(87) EP2019062616 21.11.2019	(21) EP18702402.1	22.05.2020
(22) 16.05.2019	(47) 12.07.2023	(22) 04.11.2019
(54) COUPLING DEVICE HAVING A COVERING DEVICE, AND RAIL VEHICLE HAVING SUCH A COUPLING DEVICE	(87) AT2018060024 02.08.2018	(54) MODULAR A-PILLAR REINFORCEMENT
(73) Voith Patent GmbH	(22) 25.01.2018	(73) PSA Automobiles SA
(72) DEAC, Ioan SHI, Minzhe	(54) RUNNING GEAR	(72) SENEAL, Josselin
(31) 102018111979	(73) Agilox Systems GmbH	RIVIERRE, Laurent
(32) 18.05.2018	(72) SCHWAIGER, Meinhard	REGHEM, Peter
(33) Germany	(31) 600092017	GALLERNE, Jean Christophe
(51) B61L 27/16	(32) 28.01.2017	SAINT DENIS, Lionel
B61L 27/20	(33) Austria	(31) 1871521
B61L 3/00	(51) B62D 7/14	(32) 14.11.2018
(11) EP3782869	B62D 7/16	(33) France
(21) EP19193069.2	B62D 7/18	(51) B62D 55/112
(47) 12.07.2023	B60B 35/00	(11) EP3483048
(22) 22.08.2019	B62D 7/22	(21) EP18201666.7
(54) TRAIN CONTROL SYSTEM AND METHOD FOR CONTROLLING A	(11) EP3781455	(47) 12.07.2023
	(21) EP18915263.0	(22) 22.10.2018
	(47) 12.07.2023	(54) CATERPILLAR TRACK FOR AN AGRICULTURAL MACHINE
	(87) US2018027703	(73) CLAAS Industrietechnik GmbH
	24.10.2019	(72) Obermeier-Hartmann, Robert
	(22) 16.04.2018	Rackow, Sascha
	(54) STEERABLE VEHICLE SUSPENSION WITH PNEUMATIC RETRACTORS	(31) 102017126103
	(73) Watson & Chalin Manufacturing, Inc.	(32) 08.11.2017
		(33) Germany
		(51) B62D 55/21
		B62D 55/088
		(11) EP3921219



(21) EP20705587.2	28.03.2019	(54) LANYARD SYSTEM AND METHOD FOR
(47) 12.07.2023	(22) 06.08.2018	A MARINE VESSEL
(87) US2020014254	(54) TRANSPORTATION DEVICE HAVING	(73) BRUNSWICK CORPORATION
13.08.2020	MULTIPLE AXES OF ROTATION AND	Fell Marine Inc.
(22) 20.01.2020	AUTO-BALANCE BASED DRIVE	(72) Ross, Walter B.
(54) TRACK JOINT ASSEMBLY IN MACHINE	CONTROL	Eriksen, Fredrik
TRACK HAVING PIN STOP FOR	(73) Chen, Shane	Frost Røine, Christian
CARTRIDGE PIN RETENTION	(72) Chen, Shane	Gonring, Steven J.
(73) Caterpillar Inc.	(31) 201762541658 P	(31) 202016786207
(72) JONES, Benjamin I.	(32) 05.08.2017	201962804976 P
OERTLEY, Thomas E.	(33) United States of America	(32) 10.02.2020
ELLMANN, Thomas	(51) B62K 25/24	13.02.2019
(31) 201916269244	(11) EP3856624	(33) United States of America
(32) 06.02.2019	(21) EP19784176.0	United States of America
(33) United States of America	(47) 12.07.2023	(51) B63C 11/08
(51) B62D 65/02	(87) US2019052819	A44B 11/25
B62D 65/00	02.04.2020	A44B 11/26
(11) EP3945008	(22) 25.09.2019	A41D 13/012
(21) EP21186264.4	(54) CYCLE WHEEL SUSPENSION	A44B 11/00
(47) 12.07.2023	ASSEMBLY HAVING GAS PISTONS	(11) EP3967591
(22) 16.07.2021	WITH UNEQUAL GAS PISTON AREAS	(21) EP21176796.7
(54) VEHICLE PARTS ASSEMBLY METHOD	(73) Specialized Bicycle Components, Inc.	(47) 12.07.2023
AND VEHICLE PARTS ASSEMBLY	(72) WEAGLE, David	(22) 31.05.2021
APPARATUS	(31) 201816159069	(54) BUOYANCY CONTROL DEVICE
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA	201816141277	WITH A CONNECTION ADAPTOR
(72) MACHINO, Motoyasu	(32) 12.10.2018	BETWEEN A SNAP COUPLING
SAKAMOTO, Tomotaka	25.09.2018	TERMINAL OF A SHOULDER STRAP
IMAMIZU, Atsushi	(33) United States of America	AND AN ARTICULATED CONNECTOR
(31) 2020129447	United States of America	FASTENED TO THE BODY OF THE
(32) 30.07.2020	(51) B62M 9/122	DEVICE
(33) Japan	B62M 9/1242	(73) Cressi-Sub S.p.A.
(51) B62J 7/08	(11) EP4019384	(72) GODOY, Carlos Alberto
B62J 9/24	(21) EP21214131.1	(31) 202000021298
B62J 9/27	(47) 12.07.2023	(32) 09.09.2020
(11) EP3877246	(22) 13.12.2021	(33) Italy
(21) EP19797829.9	(54) ACTUATOR DEVICE FOR A BICYCLE	(51) B63H 20/00
(47) 12.07.2023	GEARSHIFT AND RELATED BICYCLE	(11) EP3996985
(87) IB2019059426	GEARSHIFT	(21) EP20731932.8
14.05.2020	(73) Campagnolo S.r.l.	(47) 12.07.2023
(22) 04.11.2019	(72) MINTO, Marco	(87) FR2020050749
(54) SUPPORT KIT FOR MOTORCYCLE	DE POLI, Luca	14.01.2021
BAG	(31) 202000031877	(22) 05.05.2020
(73) Givi S.p.A.	(32) 22.12.2020	(54) PROPULSION DEVICE FOR A PADDLE-
(72) VISENZI, Giuseppe	(33) Italy	TYPE CRAFT
(31) 201800010026	(51) B63B 3/42	(73) Temo
(32) 05.11.2018	B63H 23/36	(72) SEUX, Alexandre
(33) Italy	B63H 21/38	(31) 1907677
(51) B62J 25/00	F01P 3/20	(32) 09.07.2019
(11) EP3962801	B63H 21/17	(33) France
(21) EP19722550.1	(11) EP3672865	(51) B64C 9/24
(47) 12.07.2023	(21) EP18753378.1	B64C 3/50
(87) EP2019060950	(47) 12.07.2023	A45B 27/00
05.11.2020	(87) EP2018071541	(11) EP3453610
(22) 29.04.2019	28.02.2019	(21) EP18192709.6
(54) FOOTREST WITH ADJUSTABLE	(22) 08.08.2018	(47) 12.07.2023
BEARING POINT	(54) COOLING SYSTEM FOR A WATER-	(22) 05.09.2018
(73) Western Horses Events Sprl	BORNE VESSEL	(54) WING ASSEMBLY WITH A MAIN WING
(72) THIRY, John	(73) Oceanvolt Oy	AND A HIGH-LIFT SYSTEM
(51) B62J 45/41	(72) KJELLMAN, Janne	(73) Airbus Operations GmbH
B62J 45/42	(31) 201713536	(72) Erban, Marcus
B62D 51/02	(32) 23.08.2017	Fees, Martin
B62D 55/06	(33) United Kingdom	(31) 102017120504
B62D 61/02	(51) B63C 9/00	(32) 06.09.2017
B62K 3/00	(11) EP3696076	(33) Germany
(11) EP3661613	(21) EP20157053.8	(51) B64C 11/00
(21) EP18858738.0	(47) 12.07.2023	B64C 27/22
(47) 12.07.2023	(22) 13.02.2020	B64C 27/32
(87) US2018000125		B64C 27/57

B64C 11/30	(73) Leonardo S.p.a.	(54) A METHOD FOR RESTORING A
(11) EP3882129	(72) PODDA, Daniele	MICROWAVE LINK
(21) EP21154165.1	LOSI, Fabrizio	(73) Telefonaktiebolaget LM Ericsson (PUBL)
(47) 12.07.2023	RUTILIO, Alessandro	(72) NILSSON, Andreas
(22) 29.01.2021	POGGI, Stefano	COLDREY, Mikael
(54) METHOD FOR CONTROLLING	(31) 19182720	(51) B64D 1/18
THE PROPELLERS OF A HYBRID	(32) 26.06.2019	A62C 99/00
HELICOPTER AND HYBRID	(33) European Patent Office (EPO)	G05D 1/00
HELICOPTER	(51) B64C 39/02	B05B 12/08
(73) Airbus Helicopters	(11) EP3768593	B05B 13/00
(72) EGLIN, Paul	(21) EP19744838.4	B64C 13/16
HUOT, Rémy	(47) 12.07.2023	A01M 7/00
(31) 2002607	(87) IB2019053649	(11) EP3914514
(32) 17.03.2020	07.11.2019	(21) EP20700597.6
(33) France	(22) 03.05.2019	(47) 12.07.2023
(51) B64C 11/26	(54) UNMANNED AERIAL VEHICLE	(87) EP2020050871
B64C 3/18	INTEGRATED WITH AUTOMATIC	30.07.2020
B64C 1/06	RENEWABLE ENERGY CHARGING	(22) 15.01.2020
B64C 27/473	SYSTEM	(54) AN AERIAL VEHICLE
B64C 1/00	(73) Kandasamy, Dushan	(73) Bayer Aktiengesellschaft
(11) EP3771636	(72) Kandasamy, Dushan	(72) CHAPPLE, Andrew Charles
(21) EP20171992.9	(31) 201807279	(31) 19153511
(47) 12.07.2023	(32) 03.05.2018	19152713
(22) 29.04.2020	(33) United Kingdom	(32) 24.01.2019
(54) AIRCRAFT COMPRISING	(51) B64C 39/02	21.01.2019
COMPOSITE STRUCTURAL	B64C 27/08	(33) European Patent Office (EPO)
COMPONENT, AND METHOD FOR	B64C 1/30	European Patent Office (EPO)
FORMING COMPOSITE STRUCTURAL	(11) EP3345831	(51) B64D 11/02
COMPONENT	(21) EP16842199.8	B60R 15/02
(73) The Boeing Company	(47) 12.07.2023	B60R 15/04
(72) Song, Weidong	(87) KR2016009473	B61D 35/00
Tran, Davis	09.03.2017	(11) EP3643612
Langabeer Jr., Richard Jameson	(22) 26.08.2016	(21) EP19205427.8
(31) 201916529464	(54) DRONE CAPABLE OF VARYING	(47) 12.07.2023
(32) 01.08.2019	PROPELLER ARRANGEMENT SHAPE	(22) 25.10.2019
(33) United States of America	(73) Korea Aerospace Research Institute	(54) IMPROVED LAVATORY MONUMENT
(51) B64C 27/04	(72) LEE, Seon Ho	FOR AIRCRAFT
B64D 31/00	(31) 20150123582	(73) The Boeing Company
F02C 9/42	(32) 01.09.2015	(72) SWANSON, Kevin Griffith
(11) EP3738874	(33) Korea (Republic)	YOUNG, Stephen M.
(21) EP20175062.7	(51) B64C 39/02	(31) 201816172327
(47) 12.07.2023	B64D 11/00	(32) 26.10.2018
(22) 15.05.2020	B64F 5/30	(33) United States of America
(54) SYSTEM AND METHOD FOR	A61L 2/10	(51) B64D 11/06
OPERATING A ROTORCRAFT	A61L 9/20	(11) EP3608227
(73) Pratt & Whitney Canada Corp.	(11) EP3960623	(21) EP19189311.4
(72) BEAUCHESNE-MARTEL, Philippe	(21) EP20192443.8	(47) 12.07.2023
MANOUKIAN, Patrick	(47) 12.07.2023	(22) 31.07.2019
(31) 201916670607	(22) 24.08.2020	(54) AIRCRAFT INTERIOR
201962852428 P	(54) DEVICE FOR DISINFECTING AN	CONFIGURATION WITH FLEXIBLE USE
201962848699 P	INTERIOR SPACE	SPACE
201962848237 P	(73) Bartling, Nils	(73) B/E Aerospace, Inc.
(32) 31.10.2019	Kirst, Wulfert	(72) UDRISTE, Daniel
24.05.2019	Rister, Frank	POZZI, Alexander N.
16.05.2019	(72) BARTLING, Nils	JOHNSON, Glenn A.
15.05.2019	RISTER, Frank	(31) 201816049972
(33) United States of America	WULFERT, Kirst	(32) 31.07.2018
United States of America	(51) B64C 39/02	(33) United States of America
United States of America	H01Q 1/02	(51) B64D 11/06
United States of America	H04W 24/02	(11) EP3741677
(51) B64C 27/78	B64U 101/00	(21) EP20163797.2
B64C 27/605	(11) EP3616256	(47) 12.07.2023
(11) EP4039588	(21) EP17724762.4	(22) 18.03.2020
(21) EP22157328.0	(47) 12.07.2023	(54) POSITION ADJUSTABLE ARMREST
(47) 12.07.2023	(87) EP2017060235	ASSEMBLIES FOR PASSENGER
(22) 26.05.2020	01.11.2018	SEATS
(54) ANTI-TORQUE ROTOR FOR A	(22) 28.04.2017	(73) B/E Aerospace, Inc.
HELICOPTER		(72) DOWTY, Mark B.

PENCE, Tracy N. JACOB, Twinkle V. CLINE, Charles B. (31) 201916422041 (32) 24.05.2019 (33) United States of America	TWO VEHICLES OR BETWEEN A VEHICLE AND A FIXED STRUCTURE (73) Sener Aeroespacial, S.A. (72) YBARRA MALO DE MOLINA, Gabriel (31) 20383162 (32) 28.12.2020 (33) European Patent Office (EPO)	(73) Jiangmen Iguarder Electronic Co., Ltd. (72) CHEN, Haiying (31) 201811299975 (32) 31.10.2018 (33) China
(51) B64D 11/06 B60N 2/427 (11) EP3868665 (21) EP21158427.1 (47) 12.07.2023 (22) 22.02.2021 (54) SEAT ASSEMBLY WITH SACRIFICIAL BACKREST BREAKOVER FEATURE (73) B/E Aerospace, Inc. (72) D'ALESSIO, Bradford PUGLISI, Stephen A. SUHRE, Ryan J. (31) 202016795743 (32) 20.02.2020 (33) United States of America	(51) B64U 10/13 B64U 30/20 B64U 50/19 B64U 101/30 H04N 23/51 H04N 23/57 H04N 23/66 H04N 23/68 B64C 39/02 G03B 15/00 G05D 1/00 H04N 7/18 (11) EP3735774 (21) EP19702713.9 (47) 12.07.2023 (87) US2019012253 11.07.2019 (22) 04.01.2019 (54) MODULAR IMAGE CAPTURE SYSTEMS (73) GoPro, Inc. (72) WOODMAN, Nicholas D. LEMA, Pablo FLANIGAN, Sean PATERSON, Michael ENKE, Joseph A. (31) 201815934204 201862614140 P (32) 23.03.2018 05.01.2018 (33) United States of America United States of America	(51) B65C 9/04 B67C 7/00 (11) EP3177536 (21) EP15750964.7 (47) 12.07.2023 (87) EP2015067711 11.02.2016 (22) 31.07.2015 (54) LABELING MACHINE (73) Sacmi Imola S.C. (72) PEDERCINI, Maurizio MAZZUCCO, Daniele MASSARI, Mirco (31) VR20140208 (32) 08.08.2014 (33) Italy
(51) B64D 43/00 B64D 45/04 G08G 5/00 G08G 5/02 (11) EP3130542 (21) EP16178603.3 (47) 12.07.2023 (22) 08.07.2016 (54) AIRCRAFT TURBULENCE DETECTION (73) Safe Flight Instrument Corporation (72) GREENE, Randall A BEYER, Shawn P. TETER, Robert D. (31) 201562190177 P (32) 08.07.2015 (33) United States of America	(51) B64D 45/00 B64F 5/60 B64D 11/00 G01S 11/00 G06Q 50/30 G01S 11/10 (11) EP3868670 (21) EP21151841.0 (47) 12.07.2023 (22) 15.01.2021 (54) SYSTEMS AND METHODS FOR DETERMINING SPACE AVAILABILITY IN AN AIRCRAFT (73) The Boeing Company (72) PATEL, Amar PATEL, Vinutha (31) 202016797061 (32) 21.02.2020 (33) United States of America	(51) B65D 1/02 B65D 41/34 B65D 55/16 (11) EP3784585 (21) EP19722541.0 (47) 12.07.2023 (87) EP2019060820 31.10.2019 (22) 26.04.2019 (54) CLOSURE (73) Obrist Closures Switzerland GmbH (72) ROGNARD, Jean-Yves HOOD, Graeme DREYER, Lino BENOIT-GONIN, Claude ROGNARD, Axel (31) 201820203 201816019 201806855 (32) 12.12.2018 01.10.2018 26.04.2018 (33) United Kingdom United Kingdom United Kingdom
(51) B64G 1/64 F16L 37/00 F16L 37/62 B64G 1/40 (11) EP4019414 (21) EP21383085.4 (47) 12.07.2023 (22) 01.12.2021 (54) CONNECTION SYSTEM AND CONNECTING METHOD FOR TRANSFERRING FLUIDS BETWEEN	(51) B65B 33/02 B32B 37/10 B29C 63/02 B29C 63/00 (11) EP3800135 (21) EP18938405.0 (47) 12.07.2023 (87) CN2018124662 07.05.2020 (22) 28.12.2018 (54) FILM ADHERING METHOD AND FILM ADHERING APPARATUS THEREOF	(51) B65D 1/02 B65D 41/34 B65D 55/16 (11) EP3784585 (21) EP19722541.0 (47) 12.07.2023 (87) EP2019060820 31.10.2019 (22) 26.04.2019 (54) CLOSURE (73) Obrist Closures Switzerland GmbH (72) ROGNARD, Jean-Yves HOOD, Graeme DREYER, Lino BENOIT-GONIN, Claude ROGNARD, Axel (31) 201820203 201816019 201806855 (32) 12.12.2018 01.10.2018 26.04.2018 (33) United Kingdom United Kingdom United Kingdom
(51) B64D 45/00 B64F 5/60 B64D 11/00 G01S 11/00 G06Q 50/30 G01S 11/10 (11) EP3868670 (21) EP21151841.0 (47) 12.07.2023 (22) 15.01.2021 (54) SYSTEMS AND METHODS FOR DETERMINING SPACE AVAILABILITY IN AN AIRCRAFT (73) The Boeing Company (72) PATEL, Amar PATEL, Vinutha (31) 202016797061 (32) 21.02.2020 (33) United States of America	(51) B65B 9/02 G07F 11/16 G07F 11/44 G07F 11/60 G07F 9/10 (11) EP3519302 (21) EP17857299.6 (47) 12.07.2023 (87) US2017053593 05.04.2018 (22) 27.09.2017 (54) PHARMACY PACKAGING SYSTEM (73) RxSafe, LLC (72) HOLMES, William, K. (31) 201615277500 (32) 27.09.2016 (33) United States of America	(31) 18201600 (32) 19.10.2018 (33) European Patent Office (EPO)
(51) B64G 1/64 F16L 37/00 F16L 37/62 B64G 1/40 (11) EP4019414 (21) EP21383085.4 (47) 12.07.2023 (22) 01.12.2021 (54) CONNECTION SYSTEM AND CONNECTING METHOD FOR TRANSFERRING FLUIDS BETWEEN	(51) B65B 33/02 B32B 37/10 B29C 63/02 B29C 63/00 (11) EP3800135 (21) EP18938405.0 (47) 12.07.2023 (87) CN2018124662 07.05.2020 (22) 28.12.2018 (54) FILM ADHERING METHOD AND FILM ADHERING APPARATUS THEREOF	(51) B65D 5/48 B65D 5/66

B65D 5/68	B65D 47/06	(22) 21.11.2019
(11) EP4059857	B65D 47/32	(54) DUAL-SEAL LINER AND NON-REMOVABLE CLOSURE ASSEMBLY
(21) EP21162533.0	(11) EP3303164	(73) Tekni-Plex, Inc.
(47) 12.07.2023	(21) EP16730505.1	(72) ANDRULONIS, David
(22) 15.03.2021	(47) 12.07.2023	SHAH, Munish
(54) DETERGENT PRODUCT CONTAINER WITH LOCK AND TRANSVERSAL WALL	(87) IL2016050538	(31) 201816199340
(73) The Procter & Gamble Company	01.12.2016	(32) 26.11.2018
(72) HOEFTE, Paulus Antonius Augustinus	(22) 24.05.2016	(33) United States of America
NG PAK LEUNG, Clara Sophie	(54) SMOOTH POUR DIRECTIONLESS LIQUID DISPENSER	(51) B65D 50/04
(51) B65D 5/50	(73) Jumpn'Pour Ltd.	(11) EP3807163
B65D 81/07	(72) RIGEL, Doron	(21) EP19736310.4
(11) EP3892556	(31) 201562166157 P	(47) 12.07.2023
(21) EP20168196.2	(32) 26.05.2015	(87) EP2019066082
(47) 12.07.2023	(33) United States of America	26.12.2019
(22) 06.04.2020	(51) B65D 33/25	(22) 18.06.2019
(54) PACKAGING ELEMENT AND PACKAGING THEREWITH	(11) EP3693288	(54) PROCESS FOR MANUFACTURING A SAFETY CLOSURE, INJECTION MOULDED PART AND SAFETY CLOSURE
(73) Emba-Protex GmbH & Co. KG	(21) EP20156329.3	(73) Capartis AG
(72) Frankowski, Boris	(47) 12.07.2023	(72) WOHLGENANNT, Herbert
(51) B65D 5/66	(22) 10.02.2020	(31) PCT/EP2018/066066
B65D 5/42	(54) ZIPPER CLOSURE AND PACKAGE USING THE SAME	(32) 18.06.2018
B65D 5/44	(73) ELPLAST Europe Sp. z o. o.	(33) World Intellectual Property Office (WIPO)
(11) EP3747788	(72) PAWELAK, Marcin	(51) B65D 50/04
(21) EP19743286.7	(31) 42885619	(11) EP3535198
(47) 12.07.2023	202016744394	(21) EP17804726.2
(87) JP2019002307	(32) 08.02.2019	(47) 12.07.2023
01.08.2019	(33) Poland	(87) US2017059602
(22) 24.01.2019	United States of America	11.05.2018
(54) FASTENER	(51) B65D 41/34	(22) 01.11.2017
(73) Koizumi Factory Corporation	(11) EP3833610	(54) CHILD-RESISTANT SENIOR-FRIENDLY MEDICATION BOTTLE
(72) KOIZUMI Toshihiro	(21) EP19752854.0	(73) CVS Pharmacy, Inc.
(31) 2018012522	(47) 12.07.2023	(72) NELSEN, Daniel
(32) 29.01.2018	(87) US2019044555	HALL, Ryan, Neil, Peter
(33) Japan	13.02.2020	REZAC, Peter
(51) B65D 19/44	(22) 31.07.2019	MILLER, Michael, David
B65D 85/68	(54) CLOSURE WITH 2-STAGE TAG	VANDERPOEL, Timothy, Andrew
B65D 19/06	(73) Closure Systems International Inc.	DALEY, Bennett, P.
(11) EP3825247	(72) MORIN, Jeremy	(31) 201615344999
(21) EP20208877.9	MIGAS, Jeremiah	(32) 07.11.2016
(47) 12.07.2023	(31) 201816057708	(33) United States of America
(22) 20.11.2020	(32) 07.08.2018	(51) B65D 55/16
(54) PACKAGING FOR ENGINES	(33) United States of America	(11) EP3838790
(73) Galimuna, Agron	(51) B65D 43/06	(21) EP20210315.6
(72) Galimuna, Agron	B65D 43/02	(47) 12.07.2023
(31) 5020419 U	B65D 1/16	(22) 27.11.2020
(32) 22.11.2019	(11) EP2864215	(54) SCREW CAP DEVICE INTENDED TO REMAIN ATTACHED TO A CONTAINER AFTER OPENING OF THE CONTAINER
(33) Austria	(21) EP13806679.0	(73) Société Lorraine de Capsules Metalliques - Manufacture de Bouchage
(51) B65D 23/06	(47) 12.07.2023	(72) Mélan-Moutet, Mathias
B65D 41/62	(87) US2013044318	(31) 1913760
(11) EP3423368	27.12.2013	(32) 04.12.2019
(21) EP17713781.7	(22) 05.06.2013	(33) France
(47) 12.07.2023	(54) PLASTIC CONTAINER AND LID	(51) B65D 71/58
(87) IB2017051188	(73) KW Container	(11) EP3722224
08.09.2017	(72) CAMPBELL, N., Kenneth	(21) EP20167905.7
(22) 01.03.2017	SCHOLL, Darren	(47) 12.07.2023
(54) CAPSULE MADE OF HEAT-SHRINKABLE PLASTIC AND USE OF THE SKIRT OF A CAPSULE TO FORM A DRIP-CATCHING POURING SPOUT	RUKVINA, Keith	(22) 03.04.2020
(73) Zufferey, Bertrand	(31) 201261663440 P	(54) CARRYING PACKAGE, BLANK FOR THE MANUFACTURE OF A CARRYING PACKAGE, AND CARDBOARD SHEET OR BOARD
(72) Zufferey, Bertrand	(32) 22.06.2012	(73) Mayr-Melnhof Karton AG
(31) 16158514	(33) United States of America	
(32) 03.03.2016	(51) B65D 47/02	
(33) European Patent Office (EPO)	B65D 49/12	
(51) B65D 25/44	(11) EP3873822	
	(21) EP19818456.6	
	(47) 12.07.2023	
	(87) US2019062539	
	04.06.2020	

(72) Schleich, Hannes Djuric, Ivica (31) 202019101927 U (32) 03.04.2019 (33) Germany	YAO, Chunrong LUO, Yongxin MENG, Qingguo ZHOU, Xiaoxiang (31) 201410265498 (32) 13.06.2014 (33) China	(73) Takraf GmbH (72) NOWAK, Jan KAHRGER, Rainer DILEFELD, Dr. Mario (31) 102017209310 (32) 01.06.2017 (33) Germany
(51) B65D 75/58 (11) EP3841032 (21) EP19762047.9 (47) 12.07.2023 (87) US2019046819 27.02.2020 (22) 16.08.2019 (54) FOLD AND SEAL FLEXIBLE VALVES (73) Illinois Tool Works Inc. (72) LUDWIG, Christopher (31) 201862720323 P (32) 21.08.2018 (33) United States of America	(51) B65G 1/04 (11) EP3517459 (21) EP19154173.9 (47) 12.07.2023 (22) 29.01.2019 (54) STORAGE SYSTEM (73) MINDA Industrieanlagen GmbH (72) Lampe, Ralf (31) 202018100490 U (32) 30.01.2018 (33) Germany	(51) B65G 23/44 (11) EP3393943 (21) EP16819809.1 (47) 12.07.2023 (87) DK2016050429 29.06.2017 (22) 14.12.2016 (54) LINE SORTER WITH ADJUSTABLE TRACK LENGTH (73) BEUMER Group A/S (72) LYKKEGAARD, Uffe
(51) B65D 81/32 B65D 51/28 (11) EP3728072 (21) EP18816027.9 (47) 12.07.2023 (87) EP2018083985 27.06.2019 (22) 07.12.2018 (54) PLASTIC CONTAINER HAVING AN OPENING MEANS (73) Mühlemann IP GmbH (72) MÜHLEMANN, Rolf (31) 15672017 (32) 20.12.2017 (33) Switzerland	(51) B65G 1/04 (11) EP3634886 (21) EP18724883.6 (47) 12.07.2023 (87) EP2018062707 22.11.2018 (22) 16.05.2018 (54) AUTOMATED STORAGE AND RETRIEVAL SYSTEM (73) Autostore Technology AS (72) AUSTRHEIM, Trond FJELDHEIM, Ivar FAGERLAND, Ingvar (31) 20170809 (32) 16.05.2017 (33) Norway	(31) 201570860 (32) 22.12.2015 (33) Denmark (51) B65G 25/10 B65G 25/02 (11) EP3517463 (21) EP16916832.5 (47) 12.07.2023 (87) JP2016078272 29.03.2018 (22) 26.09.2016 (54) CONVEYANCE DEVICE (73) Azbil Corporation (72) OKAWA, Yoichi KANEHARA, Keiji BEPPU, Hisashi MASUMOTO, Shingo
(51) B65D 83/08 G01N 33/487 (11) EP4077161 (21) EP20841969.7 (47) 12.07.2023 (87) FR2020000274 24.06.2021 (22) 15.12.2020 (54) DEVICE FOR STORING AND DISPENSING STRIPS (73) BIOMÉRIEUX (72) JANUEL, Denis (31) 1914454 (32) 16.12.2019 (33) France	(51) B65G 1/137 (11) EP3798157 (21) EP19825491.4 (47) 12.07.2023 (87) JP2019023480 02.01.2020 (22) 13.06.2019 (54) ARTICLE TRANSPORT VEHICLE (73) Daifuku Co., Ltd. (72) YOSHINAGA Kazuharu (31) 2018120941 (32) 26.06.2018 (33) Japan	(51) B65G 37/00 B65G 47/08 B65G 57/14 B65B 19/02 B65B 35/44 B65B 35/50 B65G 21/12 B65G 41/00 (11) EP3492408 (21) EP18208799.9 (47) 12.07.2023 (22) 28.11.2018 (54) DEVICE FOR TRANSPORTING PACKAGES AND FOR CREATING PACKAGE GROUPS (73) Focke & Co. (GmbH & Co. KG) (72) Schweers, Hans-Jürgen (31) 102017011079 (32) 30.11.2017 (33) Germany
(51) B65D 90/08 B65D 90/02 F17C 1/12 F17C 13/00 B65D 88/12 B60P 3/22 B65D 88/74 B65D 90/12 (11) EP3156351 (21) EP14894600.7 (47) 12.07.2023 (87) CN2014089830 17.12.2015 (22) 29.10.2014 (54) LOW-TEMPERATURE CONTAINER, LOW-TEMPERATURE TANK AND LOW- TEMPERATURE TANK TRUCK (73) Nantong CIMC Energy Equipment Co., Ltd. (72) QUAN, Huanghe	(51) B65G 15/00 G01G 11/00 (11) EP3599189 (21) EP18185796.2 (47) 12.07.2023 (22) 26.07.2018 (54) BELT CONVEYOR WITH A WEIGHING DEVICE FOR A DOUGH LINE (73) Radie B.V. (72) VAN BLOKLAND, Johannes Josephus Antonius (51) B65G 21/08 (11) EP3409620 (21) EP18174073.9 (47) 12.07.2023 (22) 24.05.2018 (54) CONVEYOR BELT INSTALLATION AND SYSTEM FOR MONITORING ROLLERS OF THE CONVEYOR BELT INSTALLATION	(51) B65G 43/02 (11) EP3956250 (21) EP20728380.5 (47) 12.07.2023 (87) AT2020060154 22.10.2020 (22) 16.04.2020 (54) STORAGE AND PICKING SYSTEM AND METHOD FOR IMPROVED DETECTION OF MEASURED VALUES IN THE STORAGE AND PICKING SYSTEM (73) TGW Logistics Group GmbH (72) GAGGL, Markus

MAHRINGER, Thomas	(54) A TRANSPORT DEVICE FOR	B65G 65/48
SCHRÖPF, Harald	TRANSFERRING ROD-LIKE ARTICLES	(11) EP3628611
(31) 503452019	(73) International Tobacco Machinery Poland	(21) EP19194524.5
(32) 16.04.2019	SP. Z O.O.	(47) 12.07.2023
(33) Austria	(72) GIELNIEWSKI, Adam	(22) 30.08.2019
(51) B65G 45/22	SIARA, Ryszard	(54) CELLULAR WHEEL LOCK FOR
(11) EP3966139	(31) 43061219	GRANULAR BULK MATERIAL
(21) EP20722570.7	(32) 16.07.2019	(73) Coperion GmbH
(47) 12.07.2023	(33) Poland	(72) Adomeit, Holger
(87) EP2020061840	(51) B65G 47/51	Walter, Michael
19.11.2020	B65G 21/10	Zinser, Bruno
(22) 29.04.2020	B65G 21/14	(31) 102018216654
(54) METHOD AND DEVICE FOR	A21C 9/08	(32) 27.09.2018
CLEANING A SURFACE OF A	A21C 13/00	(33) Germany
CONVEYOR BELT OF RESIDUES	B65G 15/22	(51) B65G 54/02
OF RAW MATERIALS AND COVER	B65G 29/02	A61L 2/18
MATERIAL CONVEYED IN MINING	F25D 13/06	A61L 2/20
(73) RWE Power AG	F26B 15/12	A61L 2/22
(72) HEIERTZ, Arie-Johann	F26B 21/00	B67B 3/00
(31) 102019112307	F26B 25/00	A61L 2/06
(32) 10.05.2019	(11) EP3802381	(11) EP3670404
(33) Germany	(21) EP19730209.4	(21) EP18306768.5
(51) B65G 47/252	(47) 12.07.2023	(47) 12.07.2023
B65G 47/90	(87) FR2019051118	(22) 20.12.2018
(11) EP3802380	28.11.2019	(54) STERILIZATION APPARATUS HAVING
(21) EP19724534.3	(22) 16.05.2019	A CONVEYING APPARATUS
(47) 12.07.2023	(54) INSTALLATION FOR PRODUCT FLOW	(73) Sidel Participations
(87) EP2019063127	REGULATION	(72) BORGESSE, Rossana
05.12.2019	(73) SG2C	PAMBIANCHI, Matteo
(22) 21.05.2019	(72) GRIAS, Alexis	CENCI, Mattia
(54) APPARATUS AND METHOD FOR	(31) 1854381	(51) B65G 63/00
THE TRANSFER OF OBJECTS, IN	1854378	B65G 61/00
PARTICULAR COMPONENTS FOR	(32) 24.05.2018	B01F 33/80
INHALERS	24.05.2018	(11) EP3625158
(73) I.M.A. Industria Macchine Automatiche	(33) France	(21) EP18719597.9
S.p.A.	France	(47) 12.07.2023
(72) ZANIBONI, Carlo	(51) B65G 47/64	(87) EP2018061136
(31) 201800005754	B65G 35/06	22.11.2018
(32) 28.05.2018	B65G 54/02	(22) 02.05.2018
(33) Italy	(11) EP3585713	(54) MODULAR PRODUCTION SYSTEM
(51) B65G 47/51	(21) EP17898011.6	AND METHOD FOR FORMULATIONS
(11) EP3087018	(47) 12.07.2023	(73) BASF Coatings GmbH
(21) EP14824329.8	(87) CN2017074788	(72) BERG, Jan
(47) 12.07.2023	30.08.2018	FOUILLET, Jeremy
(87) US2014072106	(22) 24.02.2017	KOLBE, Michael
02.07.2015	(54) AUXILIARY CONVEYOR AND	GROETSCH, Stefan
(22) 23.12.2014	CORRESPONDING CONVEYING	BERG, Ralf
(54) SYSTEM FOR COLLECTING	SYSTEM	JOEGE, Frank
CONFECTIONARY PRODUCT	(73) ABB Schweiz AG	HUESER, Bernhard
(73) Intercontinental Great Brands LLC	(72) GU, Hao	(31) 17171923
(72) SAGENDORF, Matthew	YANG, Jibo	(32) 19.05.2017
MECRIN, Eric	CHI, Zhaofu	(33) European Patent Office (EPO)
UPMANN, Arthur William	(51) B65G 51/06	(51) B65G 69/28
ELEJALDE, Cesar Carlos	B65G 51/30	G09F 19/22
DEGADY, Marc	(11) EP3544913	G09F 13/22
VAN NIEKERK, Miles J.	(21) EP17822114.9	G09F 27/00
HAMMES, Michael	(47) 12.07.2023	(11) EP3718936
(31) 201361920537 P	(87) AT2017060305	(21) EP19382248.3
(32) 24.12.2013	31.05.2018	(47) 12.07.2023
(33) United States of America	(22) 20.11.2017	(22) 04.04.2019
(51) B65G 47/51	(54) PNEUMATIC POST SLEEVE HAVING	(54) DOCK SHELTER WITH LIGHTING
A24C 5/35	AN INSERT	FIXTURES
(11) EP3999456	(73) Ing. Sumetzberger GmbH	(73) Portes Bisbal S.L.
(21) EP20732566.3	(72) FRIEDRICH, Peter	(72) Mir Pons, Angel
(47) 12.07.2023	(31) 510692016	(51) B65H 3/12
(87) EP2020066152	(32) 24.11.2016	B65H 3/54
21.01.2021	(33) Austria	B65H 1/30
(22) 11.06.2020	(51) B65G 53/46	B65H 83/02

(11) EP3964462	(72) CAPITANI, Marco	(47) 12.07.2023
(21) EP21195121.5	(51) B65H 29/40	(22) 29.10.2018
(47) 12.07.2023	B65H 29/60	(54) HOSE REELING STRUCTURE
(22) 06.09.2021	B66C 11/06	(73) Wang, Daniel Chun
(54) SHEET FEEDING APPARATUS, AND CONTROL METHOD OF THE SAME	B65H 29/24	(72) WANG, Daniel Chun
(73) Horizon Inc.	(11) EP4005958	CHENG, Chi-Han
(72) YACHI, Tomonori	(21) EP20210386.7	(31) 106219161 U
NAMBU, Hiromasa	(47) 12.07.2023	(32) 25.12.2017
AOKI, Eiji	(22) 27.11.2020	(33) Taiwan, Chinese Taipei
(31) 2021118777	(54) SHEET STACKER COMPRISING A SHEET FLIPPING DEVICE AND A HOLDING DEVICE	(51) B66B 1/34
2020150840	(73) Canon Production Printing Holding B.V.	B66B 5/00
(32) 19.07.2021	(72) VERHOEVEN, Erik P.J.	(11) EP3508445
08.09.2020	PEULEN, Johannes E.P.	(21) EP19150380.4
(33) Japan	(51) B65H 54/26	(47) 12.07.2023
Japan	B65H 54/72	(22) 04.01.2019
(51) B65H 5/02	B65H 63/036	(54) ELEVATOR AUTO-POSITIONING FOR VALIDATING MAINTENANCE
B65H 29/24	B65H 67/06	(73) Otis Elevator Company
B65H 5/22	D01H 9/18	(72) MAHONEY, Sally Day
B41J 11/00	(11) EP3626660	(31) 201815861783
B41J 11/06	(21) EP18802240.4	(32) 04.01.2018
(11) EP3962845	(47) 12.07.2023	(33) United States of America
(21) EP20725641.3	(87) JP2018019156	(51) B66B 5/00
(47) 12.07.2023	22.11.2018	(11) EP3505480
(87) EP2020062224	(22) 17.05.2018	(21) EP18248187.9
12.11.2020	(54) SPINNING SYSTEM AND WINDING PREVENTION METHOD	(47) 12.07.2023
(22) 01.05.2020	(73) Murata Machinery, Ltd.	(22) 28.12.2018
(54) PRINTER WITH VACUUM DEVICE	(72) KAWAMOTO Kenji	(54) ELEVATOR INSPECTION USING AUTOMATED SEQUENCING OF CAMERA PRESETS
(73) Canon Production Printing Holding B.V.	(31) 2017099429	(73) OTIS Elevator Company
(72) HEIJNDERS, Ludovicus M. HAENEN, Marcel J.H.M.	(32) 19.05.2017	(72) HIGGINS, Frank
(31) 19172564	(33) Japan	SUDI, Sandeep
(32) 03.05.2019	(51) B65H 54/72	(31) 201815859954
(33) European Patent Office (EPO)	B65H 67/048	(32) 02.01.2018
(51) B65H 19/30	(11) EP3862305	(33) United States of America
B65H 19/12	(21) EP21153717.0	(51) B66B 19/00
B29D 30/00	(47) 12.07.2023	(11) EP3816088
B29D 30/30	(22) 27.01.2021	(21) EP19206456.6
(11) EP3880594	(54) YARN WINDER	(47) 12.07.2023
(21) EP19832431.1	(73) TMT Machinery, Inc.	(22) 31.10.2019
(47) 12.07.2023	(72) Sawada, Jun	(54) A SELF-CLIMBING ELEVATOR ARRANGEMENT FOR USE DURING THE CONSTRUCTION OF A BUILDING
(87) FR2019052695	Hashimoto, Kinzo	(73) KONE Corporation
22.05.2020	(31) 2020018200	(72) Haapaniemi, Markku
(22) 13.11.2019	(32) 05.02.2020	Mustalahti, Jorma
(54) METHOD AND FACILITY FOR SUPPLYING ELASTOMERIC PRODUCTS	(33) Japan	Turpeinen, Jukka
(73) COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN	(51) B65H 59/18	Venho, Anssi
(72) DETTORRE, Jean-Marie	B65H 59/36	Haikonen, Aki
QUERAUD, Hervé	B65H 65/00	Mikkonen, Janne
JAUNET, Nicolas	(11) EP3865441	Hägg, Jori
RAVAT, Stéphane	(21) EP19870352.2	Räsänen, Matti
(31) 1860542	(47) 12.07.2023	Österman, Jari
(32) 15.11.2018	(87) JP2019031766	Lanz, Otto
(33) France	16.04.2020	Laine, Janne
(51) B65H 19/30	(22) 09.08.2019	Kere, Petri
B65H 75/18	(54) YARN WINDING MACHINE	(51) B66C 1/10
B65C 3/00	(73) TMT Machinery, Inc.	F03D 13/10
B65C 9/28	(72) OKADA, Takehiro	(11) EP3849930
(11) EP3808688	HASHIMOTO, Kinzo	(21) EP19770024.8
(21) EP19203659.8	BANDO, Shiro	(47) 12.07.2023
(47) 12.07.2023	(31) 2018190594	(87) EP2019074494
(22) 16.10.2019	(32) 09.10.2018	19.03.2020
(54) A METHOD AND A SYSTEM FOR MOVING AND LABELLING REELS OF A WEB MATERIAL	(33) Japan	(22) 13.09.2019
(73) Valmet Aktiebolag	(51) B65H 75/44	(54) ROTOR BLADE HOISTING SYSTEM AND METHOD OF INSTALLATION AND/
	B65H 75/28	
	(11) EP3502026	
	(21) EP18203094.0	

<p>OR DEINSTALLATION OF A ROTOR BLADE (73) Liftra IP ApS (72) FENGER, Per Eske (31) PA201870585 (32) 13.09.2018 (33) Denmark <hr/>(51) B66C 1/66 E04G 21/14 E04G 15/04 (11) EP3313769 (21) EP16813381.7 (47) 12.07.2023 (87) AU2016050398 29.12.2016 (22) 25.05.2016 (54) NARROW EDGE LIFTING INSERT (73) Mackay Sim, Rodney (72) Mackay Sim, Rodney (31) 2015902722 (32) 24.06.2015 (33) Australia <hr/>(51) B66C 13/06 G06Q 10/06 B66C 13/08 B66C 1/10 (11) EP3359480 (21) EP16852903.0 (47) 12.07.2023 (87) AU2016050941 13.04.2017 (22) 07.10.2016 (54) MATERIALS MANAGEMENT SYSTEMS AND METHODS (73) Verton IP Pty Ltd (72) THOMSON, Stanley MILLER, Andrew (31) 2015905245 2015904106 (32) 17.12.2015 08.10.2015 (33) Australia Australia <hr/>(51) B66C 13/28 B66C 23/52 (11) EP3762322 (21) EP19719940.9 (47) 12.07.2023 (87) NL2019050152 12.09.2019 (22) 08.03.2019 (54) PEDESTAL MOUNTED CRANE WITH FLYWHEEL ENERGY STORAGE (73) Itrec B.V. (72) BRINKMAN, Marc Louis ROODENBURG, Joop VAN VELUW, Cornelis Martinus (31) 2020553 (32) 08.03.2018 (33) Netherlands <hr/>(51) B66F 9/02 (11) EP3766824 (21) EP20760358.0 (47) 12.07.2023 (87) CN2020091793 26.11.2020 (22) 22.05.2020</p>	<p>(54) AUTOMATIC UNLOADING LIFTING MECHANISM (73) Wuyi University (72) ZOU, Xiaolong XIE, Chaojian WANG, Tianlei LAI, Yuanqin DENG, Yijia LI, Wenjie ZHANG, Jingling CHEN, Simian XIAO, Na (31) 201910434425 (32) 23.05.2019 (33) China <hr/>(51) B66F 9/075 B66F 9/22 B66F 11/04 B66F 17/00 (11) EP3868700 (21) EP21156932.2 (47) 12.07.2023 (22) 12.02.2021 (54) TRAVEL CONTROL DEVICE FOR VEHICLE WITH AN AERIAL WORK PLATFORM (73) Kabushiki Kaisha Aichi Corporation (72) YAEGASHI, Kou SATO, Mitsuru AOKI, Takuya (31) 2020025334 (32) 18.02.2020 (33) Japan <hr/>(51) B66F 9/075 B66F 17/00 (11) EP3312131 (21) EP17193765.9 (47) 12.07.2023 (22) 28.09.2017 (54) INDUSTRIAL TRUCK WITH A SENSOR DEVICE FOR MONITORING AN AMBIENT AREA (73) Linde Material Handling GmbH (72) SCHMIDT, Alexander KRUMBHOLZ, Peter (31) 102016120117 (32) 21.10.2016 (33) Germany <hr/>(51) B66F 9/24 G06F 9/30 G05B 19/04 B60R 16/023 B60W 50/00 H04L 45/02 G06F 8/60 G05B 19/042 (11) EP3329642 (21) EP16751073.4 (47) 12.07.2023 (87) US2016043981 02.02.2017 (22) 26.07.2016 (54) VEHICLE CONTROL MODULE WITH SIGNAL SWITCHBOARD AND OUTPUT TABLES (73) Crown Equipment Corporation (72) HAMMER, Joe, K. MANGETTE, Stephen, T.</p>	<p>ADDISON, Mark, E. CONLEY, Walter, III DAMMEYER, Karl, L. (31) 201562197836 P 201562197857 P (32) 28.07.2015 28.07.2015 (33) United States of America United States of America <hr/>(51) B66F 9/24 G06F 9/30 G05B 19/04 B60R 16/023 H04L 45/02 B60W 50/00 G06F 8/60 G05B 19/042 (11) EP3328785 (21) EP16751072.6 (47) 12.07.2023 (87) US2016043977 02.02.2017 (22) 26.07.2016 (54) VEHICLE CONTROL MODULE WITH SIGNAL SWITCHBOARD AND INPUT TABLES (73) Crown Equipment Corporation (72) MANGETTE, Stephen, T. DAMMEYER, Karl, L. CONLEY, Walter, III HAMMER, Joe, K. ADDISON, Mark, E. (31) 201562197857 P 201562197836 P (32) 28.07.2015 28.07.2015 (33) United States of America United States of America <hr/>(51) B66F 13/00 B66F 7/06 B66F 7/10 B66F 7/28 F16M 11/00 E21D 15/50 B25H 1/00 (11) EP3830018 (21) EP19844595.9 (47) 12.07.2023 (87) AU2019050796 06.02.2020 (22) 30.07.2019 (54) A HEAVY-DUTY JACK STAND (73) Stand Technologies Pty Ltd (72) DOW, Matthew MACDONALD, Brian (31) 2018902780 (32) 31.07.2018 (33) Australia <hr/>(51) B67C 3/28 (11) EP3789341 (21) EP20188413.7 (47) 12.07.2023 (22) 29.07.2020 (54) MULTI-STAGE FILLING VALVE (73) Weightpack S.r.l. (72) CORNIANI, Carlo (31) 201900015752 (32) 06.09.2019</p>
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(33) Italy	(54) USE OF MOLTEN SALT TO SEPARATE CARBON FROM A MOLTEN METAL CATALYST	(54) A DEVICE AND METHOD FOR PRODUCING HIGH-CONCENTRATION, LOW-TEMPERATURE NITRIC OXIDE
(51) B68C 1/04		
B68C 1/02		
(11) EP4038012	(73) Nederlandse Organisatie voor toegepast-natuurwetenschappelijk onderzoek TNO	(73) Origin, Inc.
(21) EP2078887.7		(72) MECK, David
(47) 12.07.2023	(72) BHARDWAJ, Rajat	CURAMENG, Lindley
(87) IB2020058612	LINDERS, Marco Johannes Gerardus	GUTSOL, Kirill
08.04.2021	GOETHEER, Earl Lawrence Vincent	NELSON, Howard
(22) 16.09.2020	ROELANDS, Cornelis Petrus Marcus	DIMINO, Andre'
(54) POSTURAL SYSTEM FOR EQUESTRIAN REHABILITATION	(31) 19155600	PARIS, Michael
(73) PRO Medicare S.r.l.	(32) 05.02.2019	(31) 201662434018 P
(72) GIOBELLINA, Roberta	(33) European Patent Office (EPO)	(32) 14.12.2016
LUZZOLI, Chiara	(51) C01B 17/04	(33) United States of America
CAFORIO, Rosaria Eugenia	C01B 3/00	
(31) 201900017999	C25B 1/02	(51) C01B 25/32
(32) 04.10.2019	C25B 1/00	C01G 25/00
(33) Italy	C25B 1/55	A61F 2/28
	C25B 15/08	C04B 41/87
(51) B81B 7/02	(11) EP3668816	C04B 35/486
B81B 3/00	(21) EP17913115.6	A61L 27/04
H04N 23/54	(47) 12.07.2023	A61L 27/32
H04N 23/68	(87) TR2017050724	A61L 27/40
(11) EP3697725	21.02.2019	(11) EP3882213
(21) EP19849013.8	(22) 29.12.2017	(21) EP19884649.5
(47) 12.07.2023	(54) A SYSTEM AND METHOD FOR DECOMPOSING GASEOUS HYDROGEN SULFIDE INTO HYDROGEN GAS AND ELEMENTARY SULFUR	(47) 12.07.2023
(87) CA2019000010	(73) Türkiye Petrol Rafinerileri Anonim Sirketi	(87) JP2019044718
09.07.2020	Tupras	22.05.2020
(22) 25.01.2019	(72) KARAKAYA, Cuneyt	(22) 14.11.2019
(54) FIVE DEGREES OF FREEDOM MEMS ACTUATOR FOR AUTOFOCUS, OPTICAL IMAGE STABILIZATION, AND SUPER RESOLUTION IMAGING IN MINIATURE CAMERAS	(31) 201712330	(54) METHOD FOR PRODUCING ZIRCONIA MATERIAL
(73) Sheba Microsystems Inc.	(32) 18.08.2017	(73) Orbray Co., Ltd.
(72) GALAOM, Ahmed	(33) Türkiye	Tokyo Metropolitan Public University Corporation
BANSS, Ali	(51) C01B 21/086	(72) MUTO Hikaru
BEN-MRAD, Ridha	H01M 10/052	KOBAYASHI Satoshi
BA-TIS, Faez	(11) EP3792221	(31) 2018215669
(31) 201916239897	(21) EP20204417.8	(32) 16.11.2018
(32) 04.01.2019	(47) 12.07.2023	(33) Japan
(33) United States of America	(22) 27.05.2011	(51) C01B 25/34
(51) C01B 3/04	(54) ALKALI METAL SALT OF FLUOROSULFONYL IMIDE	C07K 17/00
(11) EP3448803	(73) Nippon Shokubai Co., Ltd.	A61K 38/00
(21) EP17718914.9	(72) SATO, Shimpei	A61K 33/42
(47) 12.07.2023	SATO, Yuichi	A61K 33/02
(87) EP2017059596	OKUMURA, Yasunori	A61K 33/06
02.11.2017	(31) 2010196236	A61P 35/00
(22) 24.04.2017	2010136382	(11) EP3626746
(54) AMMONIA DISSOCIATION BY USE OF INDUCTIVE HEATING	2010123474	(21) EP18818605.0
(73) Topsoe A/S	(32) 01.09.2010	(47) 12.07.2023
(72) MORTENSEN, Peter Mølgaard	15.06.2010	(87) BR2018000031
HØJLUND NIELSEN, Poul Erik	28.05.2010	20.12.2018
HANSEN, John Bøgild	(33) Japan	(22) 14.06.2018
(31) 201600244	Japan	(54) METHODS FOR PRODUCING A NANOSTRUCTURED COMPLEX (CFI-1) AND A PROTEIN-ASSOCIATED NANOSTRUCTURED COMPLEX (MRB-CFI-1) AND USE
(32) 26.04.2016	Japan	(73) Universidade Estadual de Campinas - Unicamp
(33) Denmark	(51) C01B 21/24	
(51) C01B 3/24	C01B 21/32	(72) FAVARO, Wagner José
C01B 3/26	A61K 33/00	CABALLERO, Nelson Eduardo Duran
C01B 32/00	A61P 9/08	(31) 102017012768
C01B 3/56	(11) EP3554995	(32) 14.06.2017
C01B 32/05	(21) EP17881840.7	(33) Brazil
(11) EP3921278	(47) 12.07.2023	(51) C01B 32/158
(21) EP20702652.7	(87) US2017066216	C01B 32/174
(47) 12.07.2023	21.06.2018	C09K 8/66
(87) EP2020052879	(22) 13.12.2017	C09K 8/68
13.08.2020		C09K 8/70
(22) 05.02.2020		C09K 8/84

C09K 8/88	(11) EP4021853	C02F 1/52
C09K 8/90	(21) EP20756899.9	C02F 1/42
C09K 8/92	(47) 12.07.2023	C02F 1/66
A61P 25/28	(87) EP2020073366	C02F 101/20
(11) EP3440309	04.03.2021	C02F 1/00
(21) EP17779935.0	(22) 20.08.2020	C02F 101/10
(47) 12.07.2023	(54) PARTICULATE MATERIAL, METHOD	(11) EP3160912
(87) US2017026673	FOR ITS MANUFACTURE AND USE	(21) EP15751077.7
12.10.2017	(73) BASF SE	(47) 12.07.2023
(22) 07.04.2017	(72) TEUFL, Tobias Maximilian	(87) IB2015054908
(54) NANOTUBE MEDIATION OF	LAMPERT, Jordan K	07.01.2016
DEGRADATIVE CHEMICALS FOR OIL-	SIOSS, James A	(22) 30.06.2015
FIELD APPLICATIONS	KIM, Young Jin	(54) METHOD FOR TREATING SALTY
(73) Molecular Rebar Design LLC	(31) 19194088	WATER
(72) STURTEVANT, Bryce Daniel	(32) 28.08.2019	(73) SUEZ Groupe
KRUPP, August Charles	(33) European Patent Office (EPO)	(72) LEVEQUE, Jocelyn
(31) 201662424606 P	(51) C02F 1/20	BRUGIONI, Maité
201662319599 P	B01D 1/14	BAUDIN, Isabelle
(32) 21.11.2016	B01D 3/34	VANDERGHOTE, Guy
07.04.2016	B01D 19/00	(31) 1456150
(33) United States of America	C01C 1/10	(32) 30.06.2014
United States of America	(11) EP3990393	(33) France
(51) C01B 32/23	(21) EP20742365.8	(51) C03C 1/00
C01B 32/19	(47) 12.07.2023	C03C 17/00
C01B 32/192	(87) GB2020051515	(11) EP3630690
(11) EP2964574	30.12.2020	(21) EP18730026.4
(21) EP14760912.7	(22) 23.06.2020	(47) 12.07.2023
(47) 12.07.2023	(54) AMMONIA STRIPPER APPARATUS	(87) FR2018051244
(87) US2014021810	(73) Process Limited	06.12.2018
12.09.2014	(72) EDEN, Robert	(22) 30.05.2018
(22) 07.03.2014	MOULDEN, Mark	(54) MECHANICALLY RESISTANT
(54) LARGE SCALE OXIDIZED GRAPHENE	(31) 201909149	SUBSTRATE IN TINTED GLASS,
PRODUCTION FOR INDUSTRIAL	(32) 25.06.2019	COVERED WITH MINERAL PAINT FOR
APPLICATIONS	(33) United Kingdom	AN AUTOMOBILE ROOF
(73) University of Central Florida Research	(51) C02F 3/20	(73) SAINT-GOBAIN GLASS FRANCE
Foundation, Inc.	(11) EP3625178	(72) COMPOINT, Francois
(72) BLAIR, Richard	(21) EP17725486.9	GARNIER, Louis
(31) 201361774633 P	(47) 12.07.2023	(31) 1754814
(32) 08.03.2013	(87) US2017032681	(32) 31.05.2017
(33) United States of America	22.11.2018	(33) France
(51) C01F 17/00	(22) 15.05.2017	(51) C03C 3/091
C09K 3/14	(54) PROCESS FOR MANAGING WORMS	C03C 3/093
H01L 21/304	IN MEMBRANE AERATED BIOFILM	C03C 3/095
(11) EP3539926	(73) BL Technologies, Inc.	C03C 3/118
(21) EP17868653.1	(72) DAGNEW, Martha	C03C 10/00
(47) 12.07.2023	WALDNER, Kyle Robert	C03C 17/00
(87) JP2017036516	(51) C02F 3/28	(11) EP3067333
17.05.2018	B01F 25/21	(21) EP16158292.9
(22) 06.10.2017	B01F 25/50	(47) 12.07.2023
(54) CERIA COMPOSITE PARTICLE	C02F 1/00	(22) 02.03.2016
DISPERSION, METHOD FOR	C12M 1/02	(54) METHOD FOR THE PRODUCTION OF
PRODUCING SAME, AND POLISHING	B01F 35/53	A GLASS CERAMIC ARTICLE HAVING
ABRASIVE GRAIN DISPERSION	(11) EP3549918	A COLORED GLASS-BASED COATING,
COMPRISING CERIA COMPOSITE	(21) EP19167335.9	AND A COATED GLASS CERAMIC
PARTICLE DISPERSION	(47) 12.07.2023	ARTICLE
(73) JGC Catalysts and Chemicals Ltd.	(22) 04.04.2019	(73) SCHOTT AG
(72) TAWARAZAKO, Yuji	(54) METHOD AND APPARATUS FOR	(72) Knoche, Silke
KOMATSU, Michio	ANAEROBIC SLUDGE DIGESTION	Dr. Siebers, Friedrich
KAWAKAMI, Shota	MIXING AND HEAT EXCHANGE	Steigenberger, Vera
USUDA, Shinya	(73) Chicago Bridge & Iron Co.	(31) 102015103461
NAKAYAMA, Kazuhiro	(72) Creech, David Thomas	(32) 10.03.2015
(31) 2017013189	Kuscu, Koray	(33) Germany
2016221747	Hsu, Stephen	(51) C03C 3/247
(32) 27.01.2017	LaHaye, Chelsea Erin	C03B 11/08
14.11.2016	(31) 201862653839 P	(11) EP3858796
(33) Japan	(32) 06.04.2018	(21) EP18934652.1
Japan	(33) United States of America	(47) 12.07.2023
(51) C01G 53/00	(51) C02F 9/00	(87) CN2018108273

02.04.2020	KIM, Yunsung	C08J 7/04
(22) 28.09.2018	KIM, Youngseok	C03C 17/28
(54) FLUOROPHOSPHATE OPTICAL GLASS, AND OPTICAL PREFORM, ELEMENT AND INSTRUMENT	(31) 20170014831	(11) EP3749623
(73) CDGM Glass Co. Ltd.	(32) 02.02.2017	(21) EP19702645.3
(72) SUN, Wei	(33) Korea (Republic)	(47) 12.07.2023
(51) C03C 4/00	(51) C03C 10/12	(87) EP2019053115
C03C 3/091	C03C 17/00	15.08.2019
H01P 3/08	F24C 15/10	(22) 08.02.2019
H01Q 1/38	(11) EP2588426	(54) PROCESS FOR MODIFICATION OF A SOLID SURFACE
(11) EP3770128	(21) EP11738765.4	(73) Surfix B.V.
(21) EP19770831.6	(47) 12.07.2023	(72) ZUJLHOF, Johannes Teunis
(47) 12.07.2023	(87) FR2011051511	KNOBEN, Wout
(87) JP2019010423	05.01.2012	SCHUTZ-TRILLING, Anke Kristin
26.09.2019	(22) 29.06.2011	SCHERES, Luc Maria Wilhelmus
(22) 13.03.2019	(54) COOKING DEVICE	VAN DER MEER, Adriaan Martin Hubert
(54) SUBSTRATE, LIQUID CRYSTAL ANTENNA AND HIGH-FREQUENCY DEVICE	(73) Eurokera S.N.C.	Henri
(73) AGC INC.	(72) BRUNET, Edouard	RIJO DA COSTA CARVALHO, Rui Pedro
(72) ONO, Kazutaka	COMTE, Marie	(31) 18155697
NOMURA, Shuhei	DI GIOVANNI, Albert	(32) 08.02.2018
(31) 2018053081	MELSCOËT-CHAUVEL, Isabelle	(33) European Patent Office (EPO)
(32) 20.03.2018	(31) 1002747	(51) C03C 17/36
(33) Japan	(32) 30.06.2010	(11) EP3749624
(51) C03C 4/00	(33) France	(21) EP19708914.7
C03C 3/091	(51) C03C 15/00	(47) 12.07.2023
H01P 3/08	B24C 1/04	(87) US2019016524
H01Q 1/38	G02F 1/1333	08.08.2019
(11) EP3770129	C03B 23/02	(22) 04.02.2019
(21) EP19771064.3	B24C 1/06	(54) SOLAR CONTROL COATINGS WITH QUADRUPLE METALLIC LAYERS
(47) 12.07.2023	(11) EP3833643	(73) Vitro Flat Glass LLC
(87) JP2019010424	(21) EP19748834.9	(72) POLCYN, Adam, D.
26.09.2019	(47) 12.07.2023	FISHER, Patrick
(22) 13.03.2019	(87) EP2019071227	MEDWICK, Paul, A.
(54) GLASS SUBSTRATE, LIQUID CRYSTAL ANTENNA AND HIGH-FREQUENCY DEVICE	13.02.2020	WAGNER, Andrew
(73) AGC INC.	(22) 07.08.2019	(31) 201916265878
(72) NOMURA, Shuhei	(54) DISPLAY DEVICE	201862626332 P
ONO, Kazutaka	(73) AGC Glass Europe	(32) 01.02.2019
(31) 2018053082	(72) HABIBI, Zakaria	05.02.2018
(32) 20.03.2018	DEGAND, Etienne	(33) United States of America
(33) Japan	MARENNE, Ingrid	United States of America
(51) C03C 8/08	SINAPI, Fabrice	(51) C03C 27/06
C03C 8/04	(31) 18188012	E06B 3/663
C03C 8/14	(32) 08.08.2018	E06B 3/677
C03C 8/20	(33) European Patent Office (EPO)	E06B 3/66
F24C 15/00	(51) C03C 17/22	B32B 17/06
C03C 3/064	C03C 17/25	(11) EP3508460
C03C 3/066	C03C 17/30	(21) EP17846381.6
C03C 8/22	(11) EP3448820	(47) 12.07.2023
C03C 3/097	(21) EP17721435.0	(87) JP2017030675
C03C 3/115	(47) 12.07.2023	08.03.2018
C03C 8/06	(87) GB2017051168	(22) 28.08.2017
C23D 1/02	02.11.2017	(54) GLASS PANEL UNIT AND GLASS WINDOW
C23D 5/04	(22) 26.04.2017	(73) Panasonic Intellectual Property Management Co., Ltd.
(11) EP3578526	(54) CORROSION RESISTANT COATED GLASS SUBSTRATE	(72) HASEGAWA, Kazuya
(21) EP18748426.6	(73) Pilkington Group Limited	URIU, Eiichi
(47) 12.07.2023	(72) VARMA, Karikath Sukumar	ISHIBASHI, Tasuku
(87) KR2018001404	COLLEY, Anna Louise	ABE, Hiroyuki
09.08.2018	CHEETHAM, Kieran James	NONAKA, Masataka
(22) 01.02.2018	HARRIS, Peter Michael	(31) 2016170366
(54) GLASS COMPOSITION AND COOKING APPLIANCE	HURST, Simon James	(32) 31.08.2016
(73) LG Electronics Inc.	OLIVER, Simon Paul	(33) Japan
(72) KIM, Namjin	(31) 201607215	(51) C04B 7/32
	(32) 26.04.2016	(11) EP3967671
	(33) United Kingdom	(21) EP20195972.3
	(51) C03C 17/30	(47) 12.07.2023
	C03C 23/00	
	C09D 1/00	
	C09D 4/00	

(22) 14.09.2020	(54) CONCRETE WATERPROOFING	C04B 41/00
(54) CALCIUM ALUMINATE CEMENT (CAC), ITS USE AND PREPARATION	AGENT	C04B 41/52
(73) Almatix GmbH	(73) Zhang, Yuwen	F01D 5/28
(72) Klaus, Sebastian	(72) Zhang, Yuwen	(11) EP3130577
Hüller, Florian	(31) 201810567436	(21) EP16183659.8
Kuiper, Stefan	(32) 04.06.2018	(47) 12.07.2023
Neubauer, Jürgen	(33) China	(22) 11.08.2016
Götz-Neunhoeffler, Friedlinde	(51) C04B 28/04	(54) HOT DUST RESISTANT
Buhr, Andreas	C08K 3/00	ENVIRONMENTAL BARRIER
(51) C04B 14/02	C08L 95/00	COATINGS
C04B 14/04	(11) EP3328810	(73) General Electric Company
(11) EP3625184	(21) EP16766377.2	(72) MESCHTER, Peter Joel
(21) EP18801609.1	(47) 12.07.2023	RAMASWAMY, Vidya
(47) 12.07.2023	(87) IB2016054580	LUTHRA, Krishan Lal
(87) US2018028054	09.02.2017	CAO, Hongbo
22.11.2018	(22) 29.07.2016	(31) 201514826765
(22) 18.04.2018	(54) ADMIXTURE FOR THE	(32) 14.08.2015
(54) NANOCARBON PARTICLE	CONSTRUCTION OF	(33) United States of America
ADMIXTURES AND METHOD FOR	INFRASTRUCTURAL AND	(51) C05D 9/00
MAKING THEM	STRUCTURAL PRODUCTS AND	C05F 11/00
(73) Eden Innovations Ltd.	RELATED PRODUCTION PROCESS	C05G 3/00
(72) MARMARO, Roger W.	(73) CVR S.p.A.	C05G 5/27
SOLOMON, Gregory H.	(72) BARBETTI, Stefano	C05G 5/30
ABATELLI, Christopher Flatley	KOCK PETERSEN, Jesper	(11) EP3976557
LARSEN, Allan Godsk	(31) UB20152750	(21) EP20727824.3
CAVALIERO, Robert	(32) 31.07.2015	(47) 12.07.2023
MEREDITH, Shawn	(33) Italy	(87) EP2020064843
FULTON, Justin	(51) C04B 35/51	03.12.2020
(31) 201715597198	G21C 3/62	(22) 28.05.2020
(32) 17.05.2017	G21C 21/02	(54) COMPOSITION FOR COATING
(33) United States of America	C01G 43/025	SUBSTRATES
(51) C04B 28/00	(11) EP3951799	(73) Trade Corporation International, S.A.
C04B 28/04	(21) EP20819270.8	Unipersonal
C04B 28/08	(47) 12.07.2023	(72) CLAEYS BOUUAERT, Pascale
C04B 111/00	(87) RU2020000116	(31) 201905354
C04B 111/92	10.12.2020	(32) 29.05.2019
H01B 3/30	(22) 05.03.2020	(33) Belgium
H01B 7/295	(54) METHOD FOR PRODUCING CERAMIC	(51) C05D 9/02
C04B 28/26	NUCLEAR FUEL WITH A BURNABLE	(11) EP3548453
H01B 3/14	ABSORBER	(21) EP17825607.9
H01B 3/48	(73) Joint-Stock Company "Machinery	(47) 12.07.2023
C04B 111/28	Manufacturing Plant"	(87) IB2017057605
C04B 111/50	(72) TIMOSHIN, Ignat Sergeevich	14.06.2018
C04B 111/80	PAHOMOV, Dmitriy Sergeevich	(22) 04.12.2017
(11) EP3230231	VOYTENKO, Maksim Yur'yevich	(54) AQUEOUS SUSPENSION FOR
(21) EP15817979.6	SKOMOROHA, Andrey Evgen'evich	AGRONOMIC USE
(47) 12.07.2023	KARPEEVA, Anastasiya Evgen'evna	(73) SCL Italia S.p.A.
(87) FR2015053372	(31) 2019117736	(72) BONINI, Paolo
16.06.2016	(32) 07.06.2019	GUALERCI, Sandro
(22) 08.12.2015	(33) Russian Federation	CAVALLARO, Lorenzo
(54) CABLE OR CABLE ACCESSORY WITH	(51) C04B 37/00	(31) 201600126419
A FIRE-RESISTANT LAYER	C04B 37/02	201600123345
(73) Nexans	C04B 37/04	(32) 14.12.2016
(72) AUVRAY, Thierry	C04B 41/89	05.12.2016
GYPPAZ, Franck	(11) EP3260434	(33) Italy
(31) 1462188	(21) EP17172477.6	Italy
(32) 10.12.2014	(47) 12.07.2023	(51) C05F 17/90
(33) France	(22) 23.05.2017	C05F 17/907
(51) C04B 28/02	(54) JOINT SURFACE COATINGS FOR	C05F 17/95
C04B 40/00	CERAMIC COMPONENTS	(11) EP3945084
C04B 103/65	(73) Rolls-Royce Corporation	(21) EP21184209.1
(11) EP3725752	(72) Landwehr, Sean E	(47) 12.07.2023
(21) EP18872300.1	Xu, Raymond Ruiwen	(22) 07.07.2021
(47) 12.07.2023	Nelson, Scott	(54) COMPOSTING SYSTEM FOR
(87) CN2018121945	(31) 201662354027 P	ORGANIC WASTE
09.05.2019	(32) 23.06.2016	(73) UP FI Conseils
(22) 19.12.2018	(33) United States of America	(72) MAHAUT, Benoît
	(51) C04B 41/89	(31) 2007924

(32) 27.07.2020	(21) EP18820595.9	(22) 03.04.2018
(33) France	(47) 12.07.2023	(54) PROCESS FOR PURIFYING
(51) C07C 2/10	(87) CN2018092003	(METH)ACRYLIC ACID INCLUDING
C07C 7/04	27.12.2018	A DIVIDING-WALL DISTILLATION
C07C 11/02	(22) 20.06.2018	COLUMN
(11) EP3782970	(54) SSAO INHIBITOR	(73) Arkema France
(21) EP20190803.5	(73) Shandong Danhong Pharmaceutical Co.,	(72) FAUCONET, Michel
(47) 12.07.2023	Ltd.	TRETJAK, Serge
(22) 13.08.2020	(72) HE, Haiying	(31) 1752902
(54) METHOD FOR OLIGOMERIZATION	YANG, Yaxun	(32) 04.04.2017
OF OLEFINS WITH OPTIMIZED	LI, Xiaolin	(33) France
DISTILLATION	CHEN, Shuhui	(51) C07C 67/56
(73) Evonik Operations GmbH	YANG, Lele	C07C 67/58
(72) Six, Tanita Valérie	LI, Peng	C07C 69/738
Rix, Armin Matthias	LUO, Zhi	(11) EP3487585
Peitz, Stephan	LI, Jian	(21) EP17831964.6
Paul, Niklas	(31) 201810582595	(47) 12.07.2023
Stochniol, Guido	201711229457	(87) US2017043308
(31) 19192735	201710661017	25.01.2018
(32) 21.08.2019	201710470167	(22) 21.07.2017
(33) European Patent Office (EPO)	(32) 07.06.2018	(54) OLEOCANTHAL ISOLATION
(51) C07C 2/10	29.11.2017	(73) Board of Supervisors for the University of
C07C 11/02	04.08.2017	Louisiana System
C10G 50/00	20.06.2017	(72) SIDDIQUE, Abu Bakar
(11) EP3738945	(33) China	EL SAYED, Khalid A.
(21) EP20174408.3	China	EBRAHIM, Hassan Y.
(47) 12.07.2023	China	(31) 201662365148 P
(22) 13.05.2020	China	(32) 21.07.2016
(54) METHOD FOR INHIBITING AN	(51) C07C 41/48	(33) United States of America
OLIGOMERIZATION OF C3 TO C5	C07C 43/303	(51) C07C 68/04
OLEFINS	C07C 43/313	C07C 69/96
(73) Evonik Operations GmbH	C07C 45/51	(11) EP4021883
(72) Reeker, Helene	C07C 47/21	(21) EP20749916.1
Stochniol, Guido	(11) EP3978466	(47) 12.07.2023
Paul, Niklas	(21) EP21200068.1	(87) EP2020072124
Bukohl, Reiner	(47) 12.07.2023	04.03.2021
Peitz, Stephan	(22) 30.09.2021	(22) 06.08.2020
(31) 19174290	(54) DIALKOXYALKENYL ALKOXYMETHYL	(54) ORGANIC CARBONATE PRODUCTION
(32) 14.05.2019	ETHER COMPOUND AND A PROCESS	PROCESS
(33) European Patent Office (EPO)	FOR PREPARING A TERMINAL	(73) Shell Internationale Research
(51) C07C 17/42	CONJUGATED ALKADIENAL	Maatschappij B.V.
C07C 21/04	COMPOUND FROM THE SAME	(72) FISCHER, Kai Jürgen
(11) EP3351524	(73) Shin-Etsu Chemical Co., Ltd.	NENU, Nicoleta Cristina
(21) EP16846462.6	(72) TSUKAGUCHI, Shogo	VAN DER HEIDE, Evert
(47) 12.07.2023	KINSHO, Takeshi	VAN DE HAAR, Peter
(87) JP2016076999	MIYAKE, Yuki	ONWUSOGH, Udeogu Chijioke
23.03.2017	(31) 2020167451	(31) 19194630
(22) 13.09.2016	(32) 02.10.2020	(32) 30.08.2019
(54) HOMOALLYL HALIDE COMPOSITION	(33) Japan	(33) European Patent Office (EPO)
AND METHOD FOR STORING	(51) C07C 51/275	(51) C07C 69/003
HOMOALLYL HALIDE	C07C 65/34	C10N 30/00
(73) Kuraray Co., Ltd.	(11) EP3838883	C10N 30/02
(72) SUGIOKA, Takashi	(21) EP19216393.9	C10N 40/02
SATO, Junko	(47) 12.07.2023	C10M 105/34
UJITA, Katsuji	(22) 16.12.2019	(11) EP3901130
TSURUTA, Takuo	(54) METHOD FOR OXIDIZING A 1,1-BIS-	(21) EP19898441.1
(31) 2015184595	(3,4-DIMETHYLPHENYL)-ALKANE	(47) 12.07.2023
(32) 18.09.2015	TO 3,3',4,4'-BENZOPHENONE	(87) JP2019049301
(33) Japan	TETRACARBOXYLIC ACID	25.06.2020
(51) C07C 22/04	(73) Evonik Fibres GmbH	(22) 17.12.2019
C07C 211/03	(72) RÖGL, Harald	(54) LUBRICATING BASE OIL FOR FLUID
C07D 413/04	(51) C07C 51/44	DYNAMIC BEARING
A61K 31/425	C07C 57/04	(73) New Japan Chemical Co., Ltd.
A61K 31/4245	(11) EP3606903	(72) SUGIYAMA, Meguru
A61K 31/4353	(21) EP18718888.3	MOCHIDA, Hirotsugu
A61K 31/4709	(47) 12.07.2023	MANDAI, Yumi
A61P 1/16	(87) FR2018050826	(31) 2018237825
(11) EP3626699	11.10.2018	(32) 20.12.2018

(33) Japan	GERMANI, ANTONIO	(11) EP3419627
(51) C07C 69/54	(51) C07C 235/06	(21) EP17712031.8
C07C 323/12	C07C 235/08	(47) 12.07.2023
C07F 7/18	A61P 25/14	(87) EP2017054422
A62D 3/02	A61P 25/18	31.08.2017
A62D 3/176	A61P 25/22	(22) 24.02.2017
C07C 69/653	A61P 25/24	(54) PROCESS FOR THE MANUFACTURE
C09D 4/00	A61P 25/28	OF ANTIVIRAL COMPOUNDS, SUCH
A62D 101/22	(11) EP3755684	AS TRIAZAVIRIN
(11) EP3896054	(21) EP18708346.4	(73) Doring International GmbH
(21) EP21178677.7	(47) 12.07.2023	(72) SOROKIN, Pavel Vladimirovich
(47) 12.07.2023	(87) EP2018054057	THORNE, David Edmund
(22) 16.12.2015	29.08.2019	(31) 16157237
(54) FLUORINATED COMPOUNDS	(22) 20.02.2018	(32) 24.02.2016
(73) Merck Patent GmbH	(54) ALCOHOL DERIVATIVES AS KV7	(33) European Patent Office (EPO)
(72) Friedrich, Reiner	POTASSIUM CHANNEL OPENERS	(51) C07D 209/08
(31) 14004337	(73) H. Lundbeck A/S	A61K 31/427
(32) 19.12.2014	(72) CHEN, Shu, Hui	A61P 37/00
(33) European Patent Office (EPO)	DAS, Debasis	A61P 43/00
(51) C07C 69/732	SAMS, Anette, Graven	C07D 401/12
A61K 31/216	WANG, Xiaofang	C07D 403/12
C07C 235/34	ROTTLÄNDER, Mario	C07D 413/12
C07C 69/618	HONG, Jian	C07D 417/12
C07C 69/65	(51) C07C 401/00	(11) EP3632898
C07C 69/734	C07J 9/00	(21) EP18805980.2
(11) EP3423429	A23L 33/155	(47) 12.07.2023
(21) EP17759057.7	C07J 15/00	(87) JP2018019440
(47) 12.07.2023	(11) EP3233793	29.11.2018
(87) CA2017050294	(21) EP15871215.8	(22) 21.05.2018
08.09.2017	(47) 12.07.2023	(54) EP4 ANTAGONIST
(22) 03.03.2017	(87) US2015066829	(73) ONO Pharmaceutical Co., Ltd.
(54) MODULATORS OF LIPOXYGENASE	23.06.2016	(72) TANI, Kousuke
AND CYCLOOXYGENASE ENZYME	(22) 18.12.2015	ASADA, Masaki
ACTIVITY	(54) METHODS FOR IMPROVED	HIGUCHI, Satonori
(73) Universite De Moncton	PRODUCTION OF VITAMINS D2 AND	(31) 2017100512
(72) TOUAIBIA, Mohamed	D3	(32) 22.05.2017
SURETTE, Marc Edgar	(73) Cibus Europe B.V.	(33) Japan
(31) 201662303120 P	(72) TREIBER, Laszlo	(51) C07D 209/46
(32) 03.03.2016	(31) 201462093904 P	C07D 213/30
(33) United States of America	(32) 18.12.2014	C07D 213/56
(51) C07C 229/12	(33) United States of America	C07D 213/82
C07C 229/24	(51) C07C 405/00	C07D 277/28
C07D 207/16	(11) EP3383845	C07D 277/30
C07D 211/60	(21) EP16822513.4	C07D 277/42
C12Q 1/68	(47) 12.07.2023	C07D 277/46
(11) EP3461807	(87) HU2016000071	C07D 277/48
(21) EP18185275.7	08.06.2017	C07D 277/50
(47) 12.07.2023	(22) 11.11.2016	C07D 277/54
(22) 08.06.2012	(54) PREPARATION OF LATANOPROSTENE	C07D 277/82
(54) DESIGN AND DEVELOPMENT OF	BUNOD OF DESIRED, PRE-	C07D 279/12
NOVEL DETERGENTS FOR USE IN	DEFINED QUALITY BY GRAVITY	C07D 295/192
PCR SYSTEMS	CHROMATOGRAPHY	C07D 401/04
(73) Life Technologies Corporation	(73) EUROAPI Hungary Limited Liability	C07D 401/06
(72) YANG, Zhiwei	Company	C07D 405/04
ANGRISH, Parul	(72) HAVASI, Gábor	C07D 405/14
WANG, Jonathan	BUZDER-LANTOS, Péter	A61K 31/535
(31) 201161494812 P	KARDOS, Zsuzsanna	A61P 37/00
(32) 08.06.2011	HORTOBÁGYI, Irén	C07D 417/04
(33) United States of America	FEKETE, Ibolya	C07D 417/12
(51) C07C 233/18	LÁSZLÓFI, István	C07D 417/14
(11) EP3075724	TAKÁCS, László	C07D 471/04
(21) EP15162055.6	(31) 1500594	C07D 487/04
(47) 12.07.2023	(32) 04.12.2015	C07D 513/18
(22) 31.03.2015	(33) Hungary	(11) EP3515449
(54) SOLID FORM OF AGOMELATINE	(51) C07D 201/00	(21) EP17854068.8
(73) F.I.S.- Fabbrica Italiana Sintetici S.p.A.	A61K 31/53	(47) 12.07.2023
(72) BYDLINSKI, GREGORY	C07D 253/10	(87) US2017053229
GAGNONI, ALESSANDRO	A61P 31/14	29.03.2018

(22) 25.09.2017	(73) Takeda Pharmaceutical Company Limited	C07D 421/12
(54) QUINOLINE DERIVATIVES AS CHROMOBOX (CBX) PROTEIN INHIBITORS FOR TREATING CANCER	(72) YONEMORI, Jinichi	C07D 495/04
(73) Dana-Farber Cancer Institute, Inc.	OHASHI, Tomohiro	C07D 279/36
(72) QI, Jun	KOIKE, Tatsuki	A61K 31/5415
VARCA, Anthony	SUZUKI, Shinkichi	A61K 31/395
BRADNER, James E.	FUJII, Kouji	A61K 41/00
FEDERATION, Alexander	YAMADA, Masami	A61K 31/55
JACOBSON, Zoe	OGINO, Masaki	A61K 47/55
(31) 201662399857 P	FUSHIMI, Makoto	A61P 35/00
(32) 26.09.2016	MASUDA, Kei	(11) EP3663286
(33) United States of America	WAKABAYASHI, Takeshi	(21) EP17920392.2
(51) C07D 211/96	KIMURA, Eiji	(47) 12.07.2023
C08L 33/08	(31) 2016134234	(87) CN2017112765
C08L 33/10	2016048866	07.02.2019
C08K 5/00	(32) 06.07.2016	(22) 24.11.2017
C09D 4/02	11.03.2016	(54) PHOTSENSITIZER DERIVATIVES AND APPLICATION THEREOF
C09J 4/02	(33) Japan	(73) Dalian Chromas Bioscience Co., Ltd.
(11) EP3932906	Japan	Dalian University of Technology
(21) EP20763394.2	(51) C07D 233/04	(72) LI, Mingle
(47) 12.07.2023	C07D 235/04	WANG, Jingyun
(87) JP2020006838	G01N 33/543	YAO, Qichao
03.09.2020	G01N 33/553	LONG, Saran
(22) 20.02.2020	(11) EP3865477	DU, Jianjun
(54) NOVEL COMPOUND, COMPOSITION CONTAINING SAID COMPOUND, AND CURED OBJECT	(21) EP19871674.8	PENG, Xiaojun
(73) ADEKA CORPORATION	(47) 12.07.2023	FAN, Jiangli
Tokyo Institute of Technology	(87) KR2019013314	(31) 201710660846
(72) OTSUKA, Hideyuki	16.04.2020	(32) 04.08.2017
KOBAYASHI, Atsushi	(22) 10.10.2019	(33) China
CHIKAOKA, Satoyuki	(54) CARBENE COMPOUND, CARBENE-METAL NANOPARTICLE COMPLEX AND PREPARATION METHOD THEREOF	(51) C07D 301/28
SAWAMOTO, Daisuke	(73) Korea Research Institute of Bioscience and Biotechnology	C07D 303/34
AOKI, Daisuke	(72) KWON, Oh Seok	(11) EP3816159
(31) 2019036118	PARK, Chul Soon	(21) EP19825577.0
(32) 28.02.2019	PARK, Seon Joo	(47) 12.07.2023
(33) Japan	KANG, Tae Joon	(87) JP2019023009
(51) C07D 213/56	LEE, Ji Yeon	02.01.2020
A61K 31/415	KIM, Kyung Ho	(22) 11.06.2019
A61K 31/4192	LEE, Chang Soo	(54) METHOD FOR PRODUCING POLYFUNCTIONAL SULFUR-CONTAINING EPOXY COMPOUND
A61K 31/427	KIM, Jin Yeong	(73) MITSUBISHI GAS CHEMICAL COMPANY, INC.
A61K 31/4406	(31) 20180120648	(72) HORIKOSHI Hiroshi
A61K 31/4439	(32) 10.10.2018	IMAGAWA Yousuke
A61P 25/04	(33) Korea (Republic)	(31) 2018124395
A61P 25/16	(51) C07D 255/02	(32) 29.06.2018
A61P 25/18	A61K 31/395	(33) Japan
A61P 25/20	A61K 31/675	(51) C07D 333/10
A61P 25/28	(11) EP3765447	C07D 333/54
C07D 231/12	(21) EP19715609.4	C07C 245/08
C07D 249/06	(47) 12.07.2023	C09K 9/02
C07D 401/04	(87) US2019022533	G02F 1/1333
C07D 405/12	19.09.2019	C07D 495/10
C07D 405/14	(22) 15.03.2019	C07D 209/12
C07D 413/12	(54) TRIAZACYCLODODECANSULFONAMIDE ("TCD")-BASED PROTEIN SECRETION INHIBITORS	(11) EP3453705
C07D 417/12	(73) Kezar Life Sciences	(21) EP17802186.1
A61K 31/4155	(72) JOHNSON, Henry	(47) 12.07.2023
(11) EP3428150	(31) 201962803704 P	(87) CN2017085720
(21) EP17763390.6	201862643931 P	30.11.2017
(47) 12.07.2023	(32) 11.02.2019	(22) 24.05.2017
(87) JP2017009529	16.03.2018	(54) PHOTOISOMERIC COMPOUNDS AND DEVICE COMPRISING SAME
14.09.2017	(33) United States of America	(73) Peking University
(22) 09.03.2017	United States of America	(72) JIA, Chuancheng
(54) AROMATIC RING COMPOUND HAVING A CHOLINERGIC MUSCARINE M1 RECEPTOR POSITIVE ALLOSTERIC MODULATOR ACTIVITY	(51) C07D 293/10	XIN, Na
	C07D 417/12	GUO, Xuefeng
		LI, Mingliang
		QU, Dahui

CHEN, Hongliang	COMPOUNDS AND THEIR USE FOR	LOWE, Christian, T.
(31) 201610383815	TREATING LYMPHOMA	(31) 201361790391 P
201610346549	(73) Celgene Corporation	(32) 15.03.2013
(32) 01.06.2016	(72) CORREA, Matthew, D.	(33) United States of America
24.05.2016	HANSEN, Joshua	<hr/>
(33) China	NAGY, Mark, A.	(51) C07D 403/12
China	HARRIS, Roy, L.	C07D 239/28
<hr/>	GRANT, Virginia Heather, Sharron	C07D 405/12
(51) C07D 401/04	PLANTEVIN-KRENITSKY, Veronique	C07D 413/12
C07D 403/04	LOPEZ-GIRONA, Antonia	C07D 417/12
C07D 405/04	CARRANCIO, Soraya	A01N 43/40
C07D 409/04	KERCHEK, Timothy, S.	(11) EP3853219
C07D 413/04	HUANG, Dehua	(21) EP19769745.1
C07D 417/04	ALEXANDER, Matthew, D.	(47) 12.07.2023
C07D 207/22	(31) 201862661525 P	(87) EP2019074235
A01N 43/36	(32) 23.04.2018	26.03.2020
(11) EP3558962	(33) United States of America	(22) 11.09.2019
(21) EP17829745.3	<hr/>	(54) HERBICIDALLY ACTIVE SUBSTITUTED
(47) 12.07.2023	(51) C07D 401/14	PHENYLPIRIMIDINE HYDRAZIDES
(87) US2017064213	C09K 9/02	(73) Bayer Aktiengesellschaft
28.06.2018	G02F 1/1516	(72) ASMUS, Elisabeth
(22) 01.12.2017	(11) EP3575292	GATZWEILER, Elmar
(54) NITRONE HERBICIDES	(21) EP17894451.8	MACHETTIRA, Anu Bheemaiah
(73) FMC Corporation	(47) 12.07.2023	ROSINGER, Christopher Hugh
(72) CAMPBELL, Matthew, James	(87) KR2017005011	SCHMUTZLER, Dirk
(31) 201662437248 P	02.08.2018	KUHN, Birgit
(32) 21.12.2016	(22) 15.05.2017	SCHNATTERER, Stefan
(33) United States of America	(54) BLACK ELECTROCHROMIC	(31) 18195364
<hr/>	COMPOUND, AND ELECTROLYTE-	(32) 19.09.2018
(51) C07D 401/14	INTEGRATED RADIATION CURABLE	(33) European Patent Office (EPO)
C07D 401/04	ELECTROCHROMIC COMPOSITION	<hr/>
C07D 487/04	AND ELECTROCHROMIC DEVICE	(51) C07D 403/12
C07D 213/75	WHICH CONTAIN SAME	C07D 413/14
C07D 451/04	(73) LG Electronics Inc.	C07D 401/10
A61K 31/444	(72) AN, Gukhwan	C07D 403/10
A61P 35/00	PARK, Koun	C07D 403/14
A61P 37/00	CHO, Sanggeun	C07D 407/14
A61P 25/28	KOO, Sangmo	C07D 413/10
(11) EP3793552	KIM, Sooyeun	C07D 417/10
(21) EP19803323.5	(31) 20170013010	C07D 417/14
(47) 12.07.2023	(32) 26.01.2017	C07D 471/04
(87) US2019032290	(33) Korea (Republic)	A61K 31/41
21.11.2019	<hr/>	A61K 31/4184
(22) 14.05.2019	(51) C07D 403/04	A61K 31/428
(54) ABHD12 INHIBITORS AND METHODS	A01N 43/40	A61K 31/4439
OF MAKING AND USING SAME	A01N 43/54	A61P 31/04
(73) The Scripps Research Institute	C07D 405/04	(11) EP3313828
(72) OGASAWARA, Daisuke	C07D 409/04	(21) EP16815358.3
HULCE, Jonathan	C07D 411/04	(47) 12.07.2023
ICHU, Taka-Aki	(11) EP2970185	(87) US2016039185
CRAVATT, Benjamin F.	(21) EP14769792.4	29.12.2016
(31) 201862671998 P	(47) 12.07.2023	(22) 24.06.2016
(32) 15.05.2018	(87) US2014024749	(54) METALLO-BETA-LACTAMASE
(33) United States of America	25.09.2014	INHIBITORS
<hr/>	(22) 12.03.2014	(73) Merck Sharp & Dohme LLC
(51) C07D 401/14	(54) 4-AMINO-6-	(72) FU, Jianmin
C07D 491/08	(HETEROCYCLIC)PICOLINATES	TANG, Haiqun
C07D 401/04	AND 6-AMINO-2-	ZHENG, Zhixiang
C07D 417/14	(HETEROCYCLIC)PYRIMIDINE-4-	ZHANG, Xu
C07D 491/10	CARBOXYLATES AND THEIR USE AS	YANG, Dexi
A61P 35/00	HERBICIDES	HUANG, Yuhua
A61K 31/454	(73) Corteva Agriscience LLC	DONG, Shuzhi
(11) EP3784663	(72) ECKELBARGER, Joseph, D.	BENNETT, Frank
(21) EP19726225.6	SCHMITZER, Paul, Richard	ZHANG, Zhibo
(47) 12.07.2023	FISCHER, Lindsey, G.	GU, Xin
(87) US2019028471	SATCHIVI, Norbert, M.	BAI, Yunfeng
31.10.2019	ROTH, Joshua	XIAO, Li
(22) 22.04.2019	PETKUS, Jeff	SCOTT, Jack, D.
(54) SUBSTITUTED 4-	EPP, Jeffrey, B.	PASTERNAK, Alexander
AMINOISINDOLINE-1,3-DIONE	SIDDALL, Thomas, L.	JIANG, Jinlong



YOUNG, Katherine	(54) 3-((((2S,5R)-2-	IP, Nancy Yuk Yu
HUNTER, David	CARBAMOYL-7-OXO-1,6-	(31) 201361847432 P
ZHAO, Zhiqiang	DIAZABICYCLO[3.2.1]OCTAN-6-	(32) 17.07.2013
(31) PCT/CN2015/082514	YL)OXY)SULFONYL)OXY)-2,2-	(33) United States of America
(32) 26.06.2015	DIMETHYLPROPANOATE	(51) C07D 487/04
(33) World Intellectual Property Office (WIPO)	DERIVATIVES AND RELATED	(11) EP3778602
(51) C07D 405/12	COMPOUNDS AS PERORALLY	(21) EP20181645.1
A61K 31/4433	ADMINISTERED PROFRUGS OF	(47) 12.07.2023
A61K 31/506	BETA-LACTAMASE INHIBITORS FOR	(22) 21.07.2016
A61P 11/00	TREATING BACTERIAL INFECTIONS	(54) METHODS OF PREPARING
(11) EP3632909	(73) Arixa Pharmaceuticals, Inc.	CYTOTOXIC BENZODIAZEPINE
(21) EP18805893.7	(72) FREUND, John	DERIVATIVES
(47) 12.07.2023	GALLOP, Mark, A.	(73) ImmunoGen, Inc.
(87) CN2018088168	DUNCTON, Matthew, Alexander, James	(72) MILLER, Michael Louis
29.11.2018	GORDON, Eric, M.	GÉRARD, Baudouin
(22) 24.05.2018	(31) 201815934497	SHIZUKA, Manami
(54) SALT AND CRYSTAL FORM OF	201762551043 P	SILVA, Richard A.
MODIFIED ANDROGRAPHOLIDE	201762504523 P	(31) 201662327973 P
COMPOUND AND PREPARATION	(32) 23.03.2018	201562195023 P
METHOD THEREOF	28.08.2017	(32) 26.04.2016
(73) Medshine Discovery Inc.	10.05.2017	21.07.2015
Heilongjiang Zhenbaodao	(33) United States of America	(33) United States of America
Pharmaceutical Co., Ltd.	United States of America	United States of America
(72) JIANG, Zhigan	United States of America	(51) C07D 487/04
HE, Haiying	(51) C07D 471/10	C07D 519/00
XIA, Jianhua	A01N 43/90	H10K 50/15
WANG, Jing	(11) EP3558995	H10K 85/60
(31) 201710373576	(21) EP17828694.4	(11) EP3762387
(32) 24.05.2017	(47) 12.07.2023	(21) EP19711824.3
(33) China	(87) EP2017082984	(47) 12.07.2023
(51) C07D 471/04	28.06.2018	(87) EP2019055472
A61P 35/00	(22) 15.12.2017	12.09.2019
A61K 31/495	(54) POLYMORPHS	(22) 06.03.2019
(11) EP3774799	(73) Syngenta Participations AG	(54) COMPOUNDS FOR ELECTRONIC
(21) EP19721123.8	(72) HONE, John	DEVICES
(47) 12.07.2023	JONES, Ian, Kevin	(73) Merck Patent GmbH
(87) IB2019052688	GEORGE, Neil	(72) HARBACH, Philipp
10.10.2019	(31) 201622007	STENGEL, Ilona
(22) 02.04.2019	(32) 22.12.2016	MAIER-FLAIG, Florian
(54) NEK6 KINASE INHIBITORS USEFUL	(33) United Kingdom	MONTENEGRO, Elvira
FOR THE TREATMENT OF SOLID	(51) C07D 471/20	LUDEMANN, Aurélie
TUMORS	A61K 31/438	(31) 18197221
(73) Molipharma R&D S.r.l.	A61P 25/28	18161102
Consiglio Nazionale delle Ricerche	A61P 25/24	(32) 27.09.2018
(72) PETRILLO, Marco	A61P 25/22	09.03.2018
SCAMBIA, Giovanni	A61P 35/00	(33) European Patent Office (EPO)
DE ROSA, Maria Cristina	A61P 25/16	European Patent Office (EPO)
RIGHINO, Benedetta	A61K 31/352	(51) C07D 487/04
GALLO, Daniela	A61K 31/402	H10K 85/60
PIROLLI, Davide	A61K 31/403	H10K 50/00
DE DONATO, Marta	A61K 31/407	(11) EP4130002
(31) 201800004177	A61K 31/437	(21) EP21202077.0
201800004172	(11) EP3022206	(47) 12.07.2023
(32) 03.04.2018	(21) EP14826591.1	(22) 12.10.2021
03.04.2018	(47) 12.07.2023	(54) COMPOUND FOR ORGANIC
(33) Italy	(87) CN2014082386	ELECTRONIC ELEMENT, ORGANIC
Italy	22.01.2015	ELECTRONIC ELEMENT USING THE
(51) C07D 471/08	(22) 17.07.2014	SAME, AND AN ELECTRONIC DEVICE
A61K 31/551	(54) EPHA4 INHIBITORS AS	THEREOF
A61K 31/439	NEUROPROTECTIVE AGENTS	(73) Duk San Neolux Co., Ltd.
A61P 31/04	(73) The Hong Kong University of Science	(72) LEE, In Goo
A61K 45/06	and Technology	LEE, Yun Suk
(11) EP3625233	(72) HUANG, Xuhui	YOO, Jae Duk
(21) EP18729223.0	FU, Kit Yu	LI, Guang Ming
(47) 12.07.2023	FU, Wing Yu	PARK, Jong Gwang
(87) US2018030652	HUNG, Kwok Wang	MUN, Soung Yun
15.11.2018	IP, Fanny Chui Fun	(31) 20210103124
(22) 02.05.2018	GU, Shuo	(32) 05.08.2021

(33) Korea (Republic)	(72) HOENKE, Christoph	C08F 110/02
(51) C07D 493/22	GODBOUT, Cédricx	C08F 110/06
C07D 307/12	VINTONYAK, Viktor	C08F 210/02
A61K 31/357	TRIESELMANN, Thomas	C08F 2/06
(11) EP3712141	(31) 18154824	C08F 4/659
(21) EP18877106.7	(32) 02.02.2018	C08F 4/6592
(47) 12.07.2023	(33) European Patent Office (EPO)	(11) EP3452521
(87) KR2018013510	(51) C07D 498/18	(21) EP17792977.5
16.05.2019	A61K 31/439	(47) 12.07.2023
(22) 08.11.2018	A61P 35/00	(87) US2017025420
(54) INTERMEDIATE FOR PREPARING	(11) EP3844166	09.11.2017
ERIBULIN MESYLATE AND METHOD	(21) EP20806359.4	(22) 31.03.2017
FOR PREPARING SAME	(47) 12.07.2023	(54) TETRAHYDROINDACENYL CATALYST
(73) Yonsung Fine Chemical Co., Ltd.	(87) CN2020090070	COMPOSITION, CATALYST SYSTEM,
(72) LEE, Keeyoung	19.11.2020	AND PROCESSES FOR USE THEREOF
OH, Changyoung	(22) 13.05.2020	(73) ExxonMobil Chemical Patents Inc.
SHIN, Hyunik	(54) SUBSTITUTED MACROCYCLES	(72) KONONOVICH, Dmitry S.
(31) 20170149015	USEFUL AS KINASE INHIBITORS	VOSKOBOYNIKOV, Alexander Z.
(32) 09.11.2017	(73) TELIGENE LTD	IZMER, Vyatcheslav V.
(33) Korea (Republic)	(72) ZHANG, Dawei	ATIENZA, Crisita Carmen H.
(51) C07D 498/04	(31) 201962920732 P	CANICH, Jo Ann M.
A61P 25/28	(32) 14.05.2019	(31) 201615145314
A61K 31/5365	(33) United States of America	(32) 03.05.2016
C07D 519/00	(51) C07F 1/06	(33) United States of America
(11) EP3883936	C07F 17/00	(51) C07H 5/06
(21) EP19809026.8	(11) EP3941923	A61K 31/728
(47) 12.07.2023	(21) EP20716204.1	C08B 37/08
(87) EP2019081870	(47) 12.07.2023	A61P 13/00
28.05.2020	(87) IB2020052396	A61K 49/00
(22) 20.11.2019	24.09.2020	(11) EP2882767
(54) NEW HETEROCYCLIC COMPOUNDS	(22) 16.03.2020	(21) EP13829632.2
(73) F. Hoffmann-La Roche AG	(54) SYNTHESIS OF METALLOCENE	(47) 12.07.2023
(72) RICHTER, Hans	POLYMERIZATION CATALYST	(87) US2013054397
ROMBACH, Didier	(73) Nova Chemicals (International) S.A.	20.02.2014
KUHN, Bernd	(72) CARTER, Charles	(22) 09.08.2013
KROLL, Carsten	SMILEY-WIENS, Janelle	(54) EVALUATING RENAL INJURY USING
HORNSPERGER, Benoit	(31) 3037415	HYALURONIC ACID
GRETHER, Uwe	(32) 20.03.2019	(73) Astute Medical, Inc.
LUTZ, Marius Daniel Rinaldo	(33) Canada	University of Pittsburgh - Of the
O'HARA, Fionn	(51) C07F 9/6574	Commonwealth System of Higher
GROEBKE ZBINDEN, Katrin	C07H 19/04	Education
(31) 18207725	A61K 31/7052	(72) KAMPF, James, Patrick
(32) 22.11.2018	A61P 35/00	NAKAMURA, Kevin
(33) European Patent Office (EPO)	C07H 1/02	KELLUM, John, A., Jr.
(51) C07D 498/04	C07H 19/10	GRAY, Jeff
C07D 519/00	A61K 31/7068	ANDERGERG, Joseph
A61P 3/00	C07H 1/00	MCPHERSON, Paul
A61P 3/10	(11) EP3730504	SINGBARTL, Kai
A61K 31/437	(21) EP18892537.4	(31) 201261682213 P
A61K 31/444	(47) 12.07.2023	(32) 11.08.2012
A61K 31/5377	(87) CN2018122822	(33) United States of America
A61K 31/497	27.06.2019	(51) C07J 9/00
A61K 31/501	(22) 21.12.2018	(11) EP3613754
A61K 31/4545	(54) CYTARABINE PRODRUG	(21) EP18786942.5
(11) EP3746451	NUCLEOSIDE CYCLIC PHOSPHATE	(47) 12.07.2023
(21) EP19702246.0	COMPOUND BASED ON LIVER-	(87) KR2018004639
(47) 12.07.2023	SPECIFIC DELIVERY AND USE	25.10.2018
(87) EP2019051989	(73) Zhejiang Palo Alto Pharmaceuticals, Inc	(22) 20.04.2018
08.08.2019	(72) XU, Huaqiang	(54) METHOD FOR PREPARING BILE ACID
(22) 28.01.2019	XI, Zhijian	DERIVATIVE BY USING CONTINUOUS
(54) BENZYL-, (PYRIDIN-3-	WU, Zhongshan	FLOW REACTION
YL)METHYL- OR (PYRIDIN-4-	LU, Chunping	(73) Daewoong Bio Inc.
YL)METHYL-SUBSTITUTED	(31) 201711408942	(72) KANG, Phil Goo
OXADIAZOLOPYRIDINE DERIVATIVES	(32) 22.12.2017	EO, Jin Yong
AS GHRELIN O-ACYL TRANSFERASE	(33) China	HWANG, Tae Seop
(GOAT) INHIBITORS	(51) C07F 19/00	LEE, Seung Jae
(73) Boehringer Ingelheim International	C08F 4/76	LEE, Joon Hwan
GmbH	C07F 7/28	(31) 201762487870 P

(32) 20.04.2017	(32) 30.01.2015	201762543658 P
(33) United States of America	(33) Netherlands	PCT/US2018/018371
(51) C07K 4/12	(51) C07K 14/435	(32) 08.11.2017
A61K 39/00	A61K 38/17	10.08.2017
(11) EP3380488	A61P 25/28	15.02.2018
(21) EP16804852.8	A61P 9/00	(33) United States of America
(47) 12.07.2023	A61P 35/00	United States of America
(87) GB2016053652	(11) EP3368551	World Intellectual Property Office (WIPO)
01.06.2017	(21) EP16858502.4	(51) C07K 16/28
(22) 23.11.2016	(47) 12.07.2023	A61P 35/00
(54) PEPTIDES	(87) AU2016051010	(11) EP3609920
(73) Immunocore Limited	04.05.2017	(21) EP18720834.3
Adaptimmune Limited	(22) 27.10.2016	(47) 12.07.2023
(72) POWLESLAND, Alex	(54) A MODIFIED EPHA4 POLYPEPTIDE	(87) US2018026060
CHESTER, Fiona	(73) The Council of the Queensland Institute	18.10.2018
(31) 201520539	of Medical Research	(22) 04.04.2018
(32) 23.11.2015	The University Of Queensland	(54) ANTI-PD-L1-ANTI-TIM-3 BISPECIFIC
(33) United Kingdom	(72) COOPER, Leanne	ANTIBODIES
(51) C07K 5/062	BARTLETT, Perry	(73) Eli Lilly and Company
A23K 10/00	BOYD, Andrew	Zymeworks BC Inc.
A23K 20/142	GEROMETTA, Mike	(72) Li, Yiwen
(11) EP3868775	(31) 2015904387	D'ANGELO, Igor Edmondo Paolo
(21) EP18939378.8	(32) 27.10.2015	LUDWIG, Dale Lincoln
(47) 12.07.2023	(33) Australia	ZHANG, Yi
(87) CN2018113906	(51) C07K 14/705	SHEN, Yang
14.05.2020	C07K 4/12	(31) 201762484025 P
(22) 05.11.2018	(11) EP3380511	(32) 11.04.2017
(54) APPLICATION OF ASPARTIC ACID	(21) EP16805185.2	(33) United States of America
DERIVATIVE IN PREPARING ANIMAL	(47) 12.07.2023	(51) C07K 16/28
FEED ADDITIVE	(87) GB2016053647	C12N 15/13
(73) ANIPHA TECHNOLOGIES PTY LTD	01.06.2017	C12N 15/70
(72) HUANG, Huacheng	(22) 23.11.2016	C07K 1/22
PENG, Xianfeng	(54) PEPTIDES	A61K 39/395
(51) C07K 14/30	(73) Adaptimmune Limited	A61P 35/00
(11) EP3262061	Immunocore Limited	(11) EP3851455
(21) EP16706622.4	(72) SUN, Meidai	(21) EP18934071.4
(47) 12.07.2023	POWLESLAND, Alex	(47) 12.07.2023
(87) EP2016054065	(31) 201520567	(87) CN2018107812
01.09.2016	(32) 23.11.2015	26.03.2020
(22) 26.02.2016	(33) United Kingdom	(22) 27.09.2018
(54) PEPTIDES FOR FACILITATING	(51) C07K 14/79	(54) MONOCLONAL ANTIBODY
SECRETION AND USES THEREOF	C07K 14/705	SPECIFICALLY BINDING HUMAN
(73) Institució Catalana de Recerca i Estudis	A61K 38/00	AND MONKEY CD38 ANTIGENS,
Avançats	A61K 38/40	PREPARATION METHOD AND USE
Fundació Centre de Regulació Genòmica	A61K 39/00	THEREOF
(72) LLUCH SENAR, Maria	A61K 47/68	(73) Acrolimmune BioPharmaceutical Co., Ltd.
PAETZOLD, Bernhard	A61P 25/28	(72) YUAN, Yanping
SERRANO PUBUL, Luis	C07K 16/00	SONG, Xiaoqi
(31) 15157028	C07K 16/28	MA, Xiaoxiao
(32) 27.02.2015	C07K 16/40	CHEN, Zui
(33) European Patent Office (EPO)	(11) EP3665192	ZHOU, Qunmin
(51) C07K 14/415	(21) EP18756531.2	HU, Hongqun
C12N 9/90	(47) 12.07.2023	(31) 201811090932
C12N 15/82	(87) US2018046199	(32) 19.09.2018
(11) EP3250694	14.02.2019	(33) China
(21) EP16702101.3	(22) 10.08.2018	(51) C07K 16/28
(47) 12.07.2023	(54) ENGINEERED TRANSFERRIN	C40B 40/10
(87) EP2016051900	RECEPTOR BINDING POLYPEPTIDES	G01N 33/53
04.08.2016	(73) Denali Therapeutics Inc.	C12Q 1/68
(22) 29.01.2016	(72) WATTS, Ryan J.	C40B 40/00
(54) MODIFIED GENE RESULTING IN	KARIOLIS, Mihalis	(11) EP3712173
PARTHENOCARPIC FRUIT SET	DENNIS, Mark S.	(21) EP20154280.0
(73) Rijk Zwaan Zaadteelt en Zaadhandel B.V.	SILVERMAN, Adam P.	(47) 12.07.2023
(72) LASTDRAGER, Magdalena Barbara	WELLS, Robert C.	(22) 05.12.2012
HUIJBREGTS-DOORDUIN, Lena	SRIVASTAVA, Ankita	(54) PDGF RECEPTOR BETA BINDING
Johanna	ZUCHERO, Joy Yu	POLYPEPTIDES
VAN DUN, Cornelis Maria Petrus	CHEN, Xiaocheng	(73) X-Body, Inc.
(31) 2014215	(31) 201762583314 P	(72) WAGNER, Richard, W.

PAZMANY, Csaba	(54) NOVEL RECOMBINANT BI-	C08L 1/28
CHEN, Yan	FUNCTIONAL FUSION PROTEIN AND	(11) EP3426697
(31) 201261610905 P	PREPARATION AND APPLICATION	(21) EP17719034.5
201161566778 P	THEREFOR	(47) 12.07.2023
(32) 14.03.2012	(73) ImmuneOnco Biopharmaceuticals	(87) US2017021148
05.12.2011	(Shanghai) Inc.	14.09.2017
(33) United States of America	(72) JING, Deqiang	(22) 07.03.2017
United States of America	TIAN, Wenzhi	(54) METHODS FOR PROVIDING
(51) C07K 16/30	(31) 201510203619	POLYVINYL CHLORIDE PARTICLES
(11) EP3794041	(32) 24.04.2015	FOR PREPARING CHLORINATED
(21) EP19724502.0	(33) China	POLYVINYL CHLORIDE
(47) 12.07.2023	(51) C08B 37/16	(73) Oxy Vinyls LP
(87) EP2019062756	C08L 5/16	(72) MAYER, Lance
21.11.2019	A61F 13/00	KRAMER, Keith S.
(22) 17.05.2019	A61K 9/70	KLAUSMEYER, Rodney L.
(54) ANTI-MUC1 ANTIBODY	C08G 77/20	(31) 201662305136 P
(73) Glycotope GmbH	C08L 83/04	(32) 08.03.2016
(72) GELLERT, Johanna	(11) EP3969486	(33) United States of America
WEIGELT, Doreen	(21) EP20725770.0	(51) C08F 2/38
DANIELCZYK, Antje	(47) 12.07.2023	C08F 10/02
FLECHNER, Anke	(87) DK2020050137	C08F 4/24
(31) 18173253	19.11.2020	C08F 2/34
(32) 18.05.2018	(22) 13.05.2020	(11) EP3445790
(33) European Patent Office (EPO)	(54) ELASTOMERIC SILICONE	(21) EP17737923.7
(51) C07K 16/46	COMPOSITIONS COMPRISING	(47) 12.07.2023
C07K 16/30	GLYCEROL, CYCLODEXTRIN AND	(87) US2017027872
C07K 19/00	OCTENIDINE	26.10.2017
A61K 39/44	(73) Coloplast A/S	(22) 17.04.2017
A61P 35/00	(72) NIELSEN, Anders Christian	(54) POLYMER FLOW INDEX MODIFIER
A61P 35/02	CHIAULA, Valeria	(73) Univation Technologies, LLC
C07K 16/28	SKOV, Anne Ladegaard	(72) ALEXANDRE, Francois
(11) EP3450460	TORNOEE, Jens	MOORHOUSE, John H.
(21) EP16900170.8	MAZUREK, Piotr Stanislaw	CANN, Kevin J.
(47) 12.07.2023	(31) 19174565	LESTER, Charles D.
(87) CN2016101984	19174276	SUN, Kefu
02.11.2017	(32) 15.05.2019	MATTHEWS, William A.
(22) 13.10.2016	14.05.2019	LYNN, Timothy R.
(54) MULTI-SPECIFIC BINDING	(33) European Patent Office (EPO)	GOODE, Mark G.
CONJUGATE, RELATED	European Patent Office (EPO)	(31) 201662325175 P
PHARMACEUTICAL COMPOSITIONS	(51) C08F 2/00	(32) 20.04.2016
AND USE	C08F 210/02	(33) United States of America
(73) Benhealth Biopharmaceutic (Shenzhen)	C08F 210/16	(51) C08F 8/10
Co. Ltd.	C08L 23/14	C08F 287/00
(72) SU, Jing	(11) EP3707169	C08F 290/12
LI, Zhengcheng	(21) EP18792404.8	C08F 293/00
YU, Haoyang	(47) 12.07.2023	G02B 1/04
(31) PCT/CN2016/080749	(87) EP2018079043	(11) EP3523338
(32) 29.04.2016	09.05.2019	(21) EP17784060.0
(33) World Intellectual Property Office (WIPO)	(22) 23.10.2018	(47) 12.07.2023
(51) C07K 19/00	(54) COMBINED SEQUENTIAL PARALLEL	(87) US2017051456
C12N 15/62	REACTOR CONFIGURATION	12.04.2018
C12N 15/63	(73) Borealis AG	(22) 14.09.2017
C12N 5/10	(72) ALASTALO, Kauno	(54) TRI-BLOCK PREPOLYMERS AND
A61K 39/395	DAS, Shital	THEIR USE IN SILICONE HYDROGELS
A61P 35/00	(31) 17200142	(73) Johnson & Johnson Vision Care Inc.
A61P 35/02	(32) 06.11.2017	(72) FORD, James D.
A61P 29/00	(33) European Patent Office (EPO)	JOSLIN, Scott L.
A61P 19/02	(51) C08F 2/18	MAHADEVAN, Shivkumar
A61P 1/00	C08F 14/06	ZHANG, Yong
A61P 11/06	C08F 6/24	(31) 201715691829
A61P 37/08	C08L 27/06	201662404817 P
(11) EP3287470	C08F 8/20	(32) 31.08.2017
(21) EP15889744.7	C08L 101/06	06.10.2016
(47) 12.07.2023	C08F 2/20	(33) United States of America
(87) CN2015094739	C08F 114/06	United States of America
27.10.2016	C08F 6/00	(51) C08F 20/06
(22) 16.11.2015	C08F 8/22	C08F 265/06
	C08L 29/04	(11) EP2855542

(21) EP13793402.2	21.12.2017	(31) 201562244388 P
(47) 12.07.2023	(22) 16.06.2016	(32) 21.10.2015
(87) US2013042482	(54) AQUEOUS POLYMER DISPERSION	(33) United States of America
28.11.2013	AND AQUEOUS COATING	
(22) 23.05.2013	COMPOSITION COMPRISING THE	(51) C08F 230/06
(54) HYDROPHILIC, LOW ACID CONTENT	SAME	C10M 145/14
POLYMERS AS STABILIZERS FOR	(73) Dow Global Technologies, LLC	C08L 43/00
WATER-BASED EMULSIONS	Rohm and Haas Company	C08F 220/20
(73) BASF SE	(72) WANG, Tao	(11) EP3099722
(72) DEBLING, Jon A.	YANG, Xiaohong	(21) EP15703495.0
JHAVERI, Sarav Bharat		(47) 12.07.2023
(31) 201261651427 P	(51) C08F 220/18	(87) EP2015051517
(32) 24.05.2012	C08F 220/14	30.07.2015
(33) United States of America	C09D 11/107	(22) 26.01.2015
(51) C08F 210/02	C08F 2/30	(54) THERMOASSOCIATIVE AND
C08L 23/08	C09D 11/023	EXCHANGEABLE COPOLYMERS, AND
C08L 95/00	(11) EP3670549	COMPOSITIONS COMPRISING SAME
(11) EP3129412	(21) EP19793477.1	(73) Ecole Supérieure de Physique et de
(21) EP15718533.1	(47) 12.07.2023	Chimie Industrielles de la Ville de Paris
(47) 12.07.2023	(87) CN2019076911	Centre National de la Recherche
(87) FR2015050850	31.10.2019	Scientifique (CNRS)
15.10.2015	(22) 05.03.2019	TotalEnergies OneTech
(22) 01.04.2015	(54) NANOSCALE WATER-BASED	(72) NICOLAY, Renaud
(54) BITUMINOUS BINDER HAVING	NARROW-MOLECULAR-WEIGHT	DEVES, Lise
AN IMPROVED SOFTENING	DISTRIBUTION ACRYLIC	NGUYEN, Thi Hang Nga
TEMPERATURE	COPOLYESTER AND PREPARATION	(31) 1450654
(73) SK Geo Centric Co., Ltd.	THEREFOR	(32) 27.01.2014
(72) PALLUAULT, Vincent	(73) Shanghai Xianke Chemical Co., Ltd.	(33) France
QUINEBECHÉ, Sébastien	(72) ZHANG, Yuan	(51) C08F 279/02
(31) 1453192	ZHANG, Yijun	C08F 283/12
(32) 10.04.2014	(31) 201810400560	C08F 265/06
(33) France	(32) 28.04.2018	C08F 291/02
(51) C08F 210/14	(33) China	C08F 285/00
C08F 220/28	(51) C08F 226/04	C08L 101/00
C08F 222/10	B01J 29/03	C08L 51/04
C08J 5/18	B01J 29/08	C08L 69/00
(11) EP3390467	B01J 29/40	C08L 25/12
(21) EP16809001.7	B01J 29/44	(11) EP3693402
(47) 12.07.2023	B01J 29/70	(21) EP18864766.3
(87) EP2016080105	B01J 29/89	(47) 12.07.2023
22.06.2017	B01J 35/00	(87) JP2018037020
(22) 07.12.2016	B01J 35/08	11.04.2019
(54) ETHYLENE COPOLYMERS AND	B01J 35/10	(22) 03.10.2018
PROCESS FOR THE PRODUCTION	C08F 8/30	(54) RUBBER-CONTAINING GRAFT
THEREOF	C08F 8/44	POLYMER, RESIN COMPOSITION
(73) SABIC Global Technologies B.V.	C08F 230/02	CONTAINING RUBBER-CONTAINING
(72) DE LOS ANGELES TOLOZA PORRAS,	B01J 37/00	GRAFT POLYMER, AND SHAPED
Carolina	B01J 37/02	ARTICLE THEREOF
VACHON, Jerome	B01J 29/80	(73) Mitsubishi Chemical Corporation
CASTANEDA ZUNIGA, Diego, Mauricio	C01B 39/04	(72) SUENAGA Naotaka
NEUTEBOOM, Peter	C10G 3/00	HAGI Misaki
DUCHATEAU, Jan Nicolaas Eddy	(11) EP3686226	MAENAKA Yuuta
SCHREURS, Franciscus Petrus	(21) EP20161051.6	IIMORI Masashi
Hermanus	(47) 12.07.2023	ARAI Hiroya
(31) 15200734	(22) 20.10.2016	MATSUOKA Shinji
(32) 17.12.2015	(54) CATIONIC POLYMERS AND POROUS	FUJITA Saki
(33) European Patent Office (EPO)	MATERIALS	(31) 2017193934
(51) C08F 220/10	(73) King Abdullah University Of Science And	(32) 04.10.2017
C08F 220/56	Technology	(33) Japan
C08F 220/04	Saudi Arabian Oil Company	(51) C08F 290/04
C08F 220/02	(72) DONG, Xinglong	C09K 3/10
C08F 265/06	SHAIKH, Sohel	H01M 8/0284
C08F 275/00	BASSET, Jean-Marie	H01M 8/10
C09D 151/00	HAN, Yu	(11) EP3919533
(11) EP3472214	SAIH, Youssef	(21) EP20859369.9
(21) EP16905034.1	SUN, Miao	(47) 12.07.2023
(47) 12.07.2023	LIU, Zhaohui	(87) JP2020031290
(87) CN2016085966	TIAN, Qiwei	04.03.2021
	XU, Wei	(22) 19.08.2020

(54) RADICAL-CURABLE SEAL MEMBER FOR FUEL CELL	C08G 18/77 C08G 18/79	C08G 18/75 C08G 18/79
(73) Sumitomo Riko Company Limited	C08G 18/72	C08G 18/22
(72) NIMURA, Yasunori	C08G 18/38	C08G 18/28
TANIGUCHI, Shota	C08G 18/62	C08G 18/32
YAMAMOTO, Kenji	C08K 5/00	C09D 5/02
(31) 2019155491	C08K 5/01	(11) EP3481880
(32) 28.08.2019	C08K 5/101	(21) EP17737155.6
(33) Japan	C08K 5/205	(47) 12.07.2023
(51) C08F 290/06	(11) EP3527595	(87) US2017039415
C08G 18/10	(21) EP17859511.2	11.01.2018
C08G 18/22	(47) 12.07.2023	(22) 27.06.2017
C08G 18/32	(87) JP2017037264	(54) COMPOSITIONS COMPRISING
C08G 18/34	19.04.2018	POLYETHER-URETHANE-UREA
C08G 18/42	(22) 13.10.2017	ADDITIVES FOR BLOCK RESISTANCE
C08G 18/48	(54) ISOCYANATE COMPOSITION,	AND OPEN TIME
C08G 18/66	AQUEOUS DISPERSION OF	(73) Dow Global Technologies, LLC
C08G 18/67	ISOCYANATE COMPOSITION,	Rohm and Haas Company
C08G 18/72	PRODUCTION METHOD THEREFOR,	(72) VAN DYK, Antony K.
C08G 18/75	COATING COMPOSITION, AND	YEUNG, Kimy
C08G 18/79	COATING FILM	RABASCO, John J.
C09D 175/04	(73) ASahi KASEI KABUSHIKI KAISHA	DEROCHER, Jonathan
C08G 18/28	(72) FUKUCHI, Takashi	BRENNAN, David J.
C08G 18/83	MIWA, Yuichi	CARDOEN, Gregoire
(11) EP3870618	(31) 2016203143	(31) 201662358224 P
(21) EP19786806.0	2016203142	(32) 05.07.2016
(47) 12.07.2023	2016203096	(33) United States of America
(87) EP2019078307	2016203091	(51) C08G 18/48
30.04.2020	(32) 14.10.2016	C08G 18/71
(22) 18.10.2019	14.10.2016	C08G 18/75
(54) AQUEOUS BINDER FORMULATION	14.10.2016	C08G 18/10
BASED ON FUNCTIONALIZED	14.10.2016	C08G 18/22
POLYURETHANES	(33) Japan	C08G 18/28
(73) BASF SE	Japan	(11) EP3976684
(72) PAULUS, Wolfgang	Japan	(21) EP20727638.7
(31) 18202800	Japan	(47) 12.07.2023
(32) 26.10.2018	(51) C08G 18/32	(87) EP2020064380
(33) European Patent Office (EPO)	C08G 18/66	03.12.2020
(51) C08F 297/04	C08L 75/04	(22) 25.05.2020
C08L 53/02	C08G 18/30	(54) METHOD FOR PRODUCING A MIXED
C08L 23/12	C08G 18/42	SILANE-TERMINATED POLYMER
C08F 8/04	C08G 18/48	(73) Covestro Intellectual Property GmbH &
A61J 1/10	C08G 18/76	Co. KG
B32B 27/30	C08L 23/08	(72) STEMPFLE, Florian, Johannes
(11) EP3816199	C08G 101/00	LAAS, Hans-Josef
(21) EP19824530.0	(11) EP4017891	THIEBES, Christoph
(47) 12.07.2023	(21) EP20751572.7	(31) 19176824
(87) JP2019025862	(47) 12.07.2023	(32) 27.05.2019
02.01.2020	(87) EP2020072448	(33) European Patent Office (EPO)
(22) 28.06.2019	25.02.2021	(51) C08G 18/48
(54) HYDROGENATED BLOCK	(22) 11.08.2020	C08K 3/30
COPOLYMER	(54) A PREPARATION COMPRISING	C08L 75/08
(73) Kuraray Co., Ltd.	THERMOPLASTIC POLYISOCYANATE	C08J 3/20
(72) TAKAHASHI, Naoto	POLYADDITION PRODUCT, A	C08G 18/50
NOJIMA, Yusuke	PROCESS FOR PREPARING THE	A61M 25/00
(31) 2018245574	SAME AND THE USE THEREOF	A61L 29/06
2018125338	(73) BASF SE	C08G 18/76
(32) 27.12.2018	(72) DRAWE, Patrick	C08G 18/66
29.06.2018	RICHTER, Sebastian	B29C 48/00
(33) Japan	(31) 19196739	B29C 48/10
Japan	19192845	B29C 48/395
(51) C08G 18/08	(32) 11.09.2019	C08K 5/00
C08G 18/00	21.08.2019	(11) EP3362493
C08G 18/28	(33) European Patent Office (EPO)	(21) EP16785659.0
C08G 18/78	European Patent Office (EPO)	(47) 12.07.2023
C08G 18/80	(51) C08G 18/48	(87) US2016056738
C09D 175/04	C08G 18/66	20.04.2017
C07C 265/14	C08G 18/73	(22) 13.10.2016

(54) THERMOPLASTIC POLYURETHANE MATERIALS FOR FORMING MEDICAL DEVICES	30.04.2020 (22) 25.10.2019 (54) POLYESTERS, POLYMER COMPOSITIONS, AND METHODS OF USING THEREOF	(47) 12.07.2023 (22) 09.08.2019 (54) POLYAMIDE MOULDING COMPOUND AND USE THEREOF AND MOULDED BODIES PRODUCED FROM SAID MOULDING COMPOUND
(73) Becton, Dickinson and Company (72) HERMEL-DAVIDOCK, Theresa ZHOU, Ming	(73) University of São Paulo Ohio State Innovation Foundation (72) DEAN, David CATALANI, Luiz, Henrique	(73) EMS-CHEMIE AG (72) SCHUBERT, Christian HARDER, Philipp EBLING, Ronny
(31) 201615291291 201562241339 P	(31) 201862750665 P	
(32) 12.10.2016 14.10.2015	(32) 25.10.2018	
(33) United States of America United States of America	(33) United States of America	(51) C08G 101/00
(51) C08G 18/66	(51) C08G 63/181	A61F 13/42
C08G 18/76	C08G 63/85	G01N 31/22
C08G 18/02	C08G 63/16	A61L 15/56
C08G 18/42	(11) EP3201252	A61L 15/26
C08L 75/06	(21) EP15781313.0	C08K 5/00
(11) EP3004198	(47) 12.07.2023	C08K 5/18
(21) EP14730104.8	(87) EP2015072818	C09D 7/00
(47) 12.07.2023	07.04.2016	C09D 7/41
(87) EP2014061120	(22) 02.10.2015	C08J 9/36
11.12.2014	(54) PROCESS FOR THE PRODUCTION OF ALIPHATIC-AROMATIC POLYESTERS	C08J 3/12
(22) 28.05.2014	(73) Novamont S.p.A.	C08J 3/205
(54) SOFT THERMOPLASTIC POLYURETHANE ELASTOMERS AND PROCESS FOR THEIR PREPARATION	(72) FAIELLA, Federico MILIZIA, Tiziana VALLERO, Roberto	C08J 7/06
(73) BASF SE	(31) MI20141733	C08G 18/76
(72) YIN, DeHui	(32) 03.10.2014	A61F 13/00
NOMURA, Akira	(33) Italy	(11) EP2920223
CHEN, Bin-Eric	(51) C08G 63/181	(21) EP13792948.5
LIM, Tienkuan	C08G 63/85	(47) 12.07.2023
(31) PCT/CN2013/000670	C08G 63/16	(87) GB2013052982
(32) 04.06.2013	(11) EP3201253	22.05.2014
(33) World Intellectual Property Office (WIPO)	(21) EP15781886.5	(22) 12.11.2013
(51) C08G 18/76	(47) 12.07.2023	(54) MOISTURE INDICATING HYDROPHILIC POLYURETHANE
C08J 9/28	(87) EP2015072817	(73) Mölnlycke Health Care AB
C08G 18/22	07.04.2016	(72) GREENER, Bryan
C08G 18/28	(22) 02.10.2015	(31) 201220481
C08G 18/32	(54) PROCESS FOR THE PRODUCTION OF POLYESTERS	(32) 14.11.2012
C08G 18/38	(73) Novamont S.p.A.	(33) United Kingdom
C08G 101/00	(72) FAIELLA, Federico MILIZIA, Tiziana VALLERO, Roberto	(51) C08J 5/00
(11) EP3405509	(31) MI20141733	C08L 67/00
(21) EP17702307.4	(32) 03.10.2014	C08L 23/14
(47) 12.07.2023	(33) Italy	C08L 33/04
(87) EP2017050947	(51) C08G 64/30	C08L 77/02
27.07.2017	C08G 73/02	B65D 63/00
(22) 18.01.2017	(11) EP3935100	(11) EP2768889
(54) PROCESS FOR PRODUCING POROUS MATERIALS	(21) EP19709927.8	(21) EP12842045.2
(73) aerogel-it GmbH	(47) 12.07.2023	(47) 12.07.2023
(72) FRICKE, Marc	(87) EP2019055862	(87) US2012060963
WEINRICH, Dirk	17.09.2020	25.04.2013
LÖLSBERG, Wibke	(22) 08.03.2019	(22) 19.10.2012
NOBIS, Marcel	(54) NOVEL EXPANDING COPOLYMERS	(54) STRAPPING AND METHODS OF MAKING THE SAME
(31) 16151675	(73) Polymer Competence Center Leoben Gmbh	(73) Samuel Strapping Systems Inc.
(32) 18.01.2016	(72) WINDBERGER, Matthias Sebastian WIESBROCK, Frank	(72) TOHILL, Des
(33) European Patent Office (EPO)	(51) C08G 69/26	(31) 201161549659 P
(51) C08G 63/12	C08K 7/14	(32) 20.10.2011
C08G 63/02	C08K 3/34	(33) United States of America
C08G 63/40	C08K 3/04	(51) C08J 5/04
C08G 63/42	C08K 3/014	C08J 5/10
C08G 63/52	(11) EP3772520	C08L 67/02
C08G 63/58	(21) EP19191017.3	B32B 27/12
C08G 63/672		B32B 3/12
(11) EP3870626		B32B 5/12
(21) EP19875565.4		B32B 5/18
(47) 12.07.2023		B32B 5/24
(87) US2019058207		B32B 5/28
		B32B 15/14
		B32B 21/10

(11) EP3802674	20.11.2014	KARTUSCH, Christiane
(21) EP19812407.5	(22) 16.05.2014	RACK, Erich
(47) 12.07.2023	(54) CARBON FIBRE-CONTAINING	(31) 19203384
(87) US2019034294	PREPREGS	(32) 15.10.2019
05.12.2019	(73) Gurit (UK) Limited	(33) European Patent Office (EPO)
(22) 29.05.2019	(72) EDWARDS, Glynn John	(51) C08K 3/22
(54) FLAME RETARDANT CONTINUOUS	REDRUP, Kate Victoria	C08L 23/08
FIBER REINFORCED	SPENCER, Paul John	C08K 9/04
THERMOPLASTIC TAPE	(31) 201308970	C08L 31/04
(73) Avient Corporation	(32) 17.05.2013	C08K 3/34
(72) ZHOU, Jian	(33) United Kingdom	C08K 3/26
ELKOVITCH, Mark	(51) C08J 9/14	C09K 21/02
AVAKIAN, Roger W.	C08J 9/40	(11) EP3529305
FLAGG, Daniel	(11) EP3545028	(21) EP17784293.7
ZHOU, Chongfu	(21) EP17808710.2	(47) 12.07.2023
(31) 201862741902 P	(47) 12.07.2023	(87) EP2017076368
201862720781 P	(87) US2017062465	26.04.2018
201862678550 P	31.05.2018	(22) 16.10.2017
(32) 05.10.2018	(22) 20.11.2017	(54) SYNERGISTIC FLAME RETARDANT
21.08.2018	(54) CLEANING IMPLEMENT COMPRISING	COMPOSITIONS AND USES THEREOF
31.05.2018	A MODIFIED OPEN-CELL FOAM	IN POLYMER COMPOSITES
(33) United States of America	(73) The Procter & Gamble Company	(73) Martinswerk GmbH
United States of America	(72) ROBERTS, Megan, Showell	(72) DIAR BAKERLY, Bashar
United States of America	PUNG, David, John	DITTMAR, Thomas Olaf
(51) C08J 5/18	SZEIFERT, Johann, Martin	MIES, Martijn Jacobus Marinus
B32B 27/32	(31) 201662425629 P	(31) 201662409409 P
B32B 27/08	(32) 23.11.2016	(32) 18.10.2016
(11) EP3469017	(33) United States of America	(33) United States of America
(21) EP17727199.6	(51) C08J 9/224	(51) C08K 5/00
(47) 12.07.2023	C08J 9/236	C08K 5/3475
(87) EP2017063092	(11) EP3686236	(11) EP3374423
14.12.2017	(21) EP20151700.0	(21) EP16822745.2
(22) 31.05.2017	(47) 12.07.2023	(47) 12.07.2023
(54) COVER FILM	(22) 14.01.2020	(87) IB2016057550
(73) RKW AGRI GMBH & CO. KG	(54) NOISE AND/OR HEAT INSULATION	22.06.2017
(72) STEFFEN, Thomas	ELEMENT AND METHOD FOR	(22) 12.12.2016
PIAZZI, Jürgen	PRODUCING A NOISE AND/OR HEAT	(54) ABUSIVELY MOLDED ARTICLE
KUHLMANN, Benjamin	INSULATION ELEMENT	INCLUDING COLOR STABLE
EUBELER, Jan Philip	(73) STO SE & Co. KGaA	COMPONENTS
(31) 102016110570	(72) Weier, Andreas	(73) SABIC Global Technologies B.V.
(32) 08.06.2016	Hitzler, Martin	(72) ASSINK, Roland Sebastian
(33) Germany	Burgeth, Gerald	BROEKAART, Eduardus Ludovicus
(51) C08J 5/18	(31) 102019000385	Louisa
C08K 5/00	(32) 22.01.2019	VAN DE GRAMPPEL, Robert Dirk
C08K 5/053	(33) Germany	EGGENHUISEN, Tamara Marijke
B65D 65/46	(51) C08J 9/40	(31) 201562269343 P
(11) EP3491050	E04B 1/68	(32) 18.12.2015
(21) EP17755586.9	(11) EP3489293	(33) United States of America
(47) 12.07.2023	(21) EP17203464.7	(51) C08K 5/14
(87) US2017044790	(47) 12.07.2023	C08F 4/34
08.02.2018	(22) 24.11.2017	(11) EP3730546
(22) 01.08.2017	(54) JOINT SEALING STRIP COMPRISING	(21) EP20166358.0
(54) PLASTICIZER BLEND FOR CHLORINE	A FOAM CONTAINING AT LEAST ONE	(47) 12.07.2023
STABILITY OF WATER-SOLUBLE	PHASE CHANGE MATERIAL	(22) 27.03.2020
FILMS	(73) Hanno Werk GmbH & Co. KG	(54) ORGANIC PEROXIDE EMULSION AND
(73) Monosol, LLC	(72) Hohlfeld, Andreas	METHOD FOR THEIR PREPARATION
(72) Nii, Shinsuke	Kethorn, Björn	AND THEIR USE
MIRANDA, Nathanael R.	(51) C08K 3/014	(73) Pergan GmbH
(31) 201662369742 P	(11) EP4045582	(72) VON ZADOW, Edgar
(32) 01.08.2016	(21) EP20789984.0	WORMLAND, Bernhard
(33) United States of America	(47) 12.07.2023	(31) 102019110214
(51) C08J 5/24	(87) EP2020078824	(32) 17.04.2019
C08G 59/40	22.04.2021	(33) Germany
C08G 59/68	(22) 14.10.2020	(51) C08K 5/16
(11) EP2997080	(54) THERMAL STABILIZER FOR	C08K 13/06
(21) EP14724110.3	POLYESTER	C08L 27/06
(47) 12.07.2023	(73) Treibacher Industrie AG	C08L 63/00
(87) EP2014060139	(72) AUER, Anton	C08G 18/80



C08G 18/76	WADA, Naoto	(22) 19.12.2017
C08G 18/77	(31) 2014190599	(54) THERMOPLASTIC RESIN
C08G 18/79	(32) 18.09.2014	COMPOSITION AND MOLDED
C08G 18/28	(33) Japan	ARTICLE MANUFACTURED
(11) EP3765562	(51) C08L 23/08	THEREFROM
(21) EP19709463.4	(11) EP3541873	(73) Lotte Advanced Materials Co., Ltd.
(47) 12.07.2023	(21) EP17818348.9	(72) YANG, Yun Jeong
(87) EP2019055468	(47) 12.07.2023	(31) 20160179614
19.09.2019	(87) US2017062277	(32) 27.12.2016
(22) 06.03.2019	24.05.2018	(33) Korea (Republic)
(54) CARDANOL BLOCKED ISOCYANATE	(22) 17.11.2017	(51) C08L 29/04
ADHESION PROMOTOR FOR PVC	(54) POLYMER BLENDS FOR USE	B29C 64/314
PLASTISOL	IN MULTILAYER STRUCTURE	B33Y 70/00
(73) Evonik Operations GmbH	AND MULTILAYER STRUCTURES	C08F 8/12
(72) PATEL, Pritesh G	COMPRISING THE SAME	C08L 71/02
LAL, Gauri Sankar	(73) DOW GLOBAL TECHNOLOGIES LLC	(11) EP3831879
BOYCE, Stephen Michael	(72) PEREZ, Carmelo Declet	(21) EP19844979.5
(31) 201862641377 P	WALTHER, Brian W.	(47) 12.07.2023
(32) 11.03.2018	BROWN, Hayley A.	(87) JP2019029618
(33) United States of America	COOPER, James L.	06.02.2020
(51) C08L 21/00	(31) 201662424101 P	(22) 29.07.2019
B60C 1/00	(32) 18.11.2016	(54) MATERIAL FOR FUSED DEPOSITION
C08C 19/25	(33) United States of America	MODELING TYPE ADDITIVE
C08J 3/24	(51) C08L 23/10	MANUFACTURING
C08K 3/04	C08L 23/16	(73) Mitsubishi Chemical Corporation
C08K 3/36	(11) EP3929244	(72) SAKAI, Norihito
C08L 15/00	(21) EP20758436.8	(31) 2018142344
C08L 7/00	(47) 12.07.2023	(32) 30.07.2018
C08L 9/00	(87) JP2020006066	(33) Japan
C08L 9/06	27.08.2020	(51) C08L 55/02
(11) EP3508526	(22) 17.02.2020	C08L 25/12
(21) EP17846702.3	(54) OLEFIN- BASED POLYMER	C08L 67/02
(47) 12.07.2023	COMPOSITION AND FROMED	C08K 3/016
(87) JP2017031560	PRODUCT THEREOF	C08K 3/22
08.03.2018	(73) Mitsui Chemicals, Inc.	(11) EP3739003
(22) 01.09.2017	(72) YODA Yusuke	(21) EP19739138.6
(54) RUBBER COMPOSITION	JITSUKATA Masakazu	(47) 12.07.2023
(73) Kuraray Co., Ltd.	(31) 2019030631	(87) KR2019000416
(72) KANBARA, Hiroshi	(32) 22.02.2019	18.07.2019
MAEDA, Hiromi	(33) Japan	(22) 10.01.2019
KODA, Daisuke	(51) C08L 23/14	(54) THERMOPLASTIC RESIN
OHTA, Satomi	C08L 23/12	COMPOSITION
(31) 2016171605	(11) EP4038137	(73) LG CHEM, LTD.
(32) 02.09.2016	(21) EP20780203.4	(72) NAM, Ki Young
(33) Japan	(47) 12.07.2023	KIM, In Seok
(51) C08L 23/04	(87) EP2020077284	BAE, Seon Hyeong
C08J 11/04	08.04.2021	SIM, Jae Yong
C08K 3/22	(22) 30.09.2020	BAE, Jae Yeon
C08K 3/26	(54) POLYMER COMPOSITION SUITABLE	YOO, Je Sun
C08L 23/10	FOR MAKING BLOWN FILMS	(31) 20190002852
C08L 25/04	(73) Borealis AG	20180003197
C08L 23/06	(72) BERNREITNER, Klaus	(32) 09.01.2019
C08L 23/12	WANG, Jingbo	10.01.2018
C08L 25/06	LESKINEN, Pauli	(33) Korea (Republic)
(11) EP3196245	GAHLEITNER, Markus	Korea (Republic)
(21) EP15842223.8	(31) 19200680	(51) C08L 63/00
(47) 12.07.2023	(32) 01.10.2019	C08G 59/24
(87) JP2015076242	(33) European Patent Office (EPO)	C08G 59/18
24.03.2016	(51) C08L 25/12	C08G 59/68
(22) 16.09.2015	C08L 51/04	C08K 3/36
(54) CABLE TROUGH MOLDED ARTICLE	C08K 3/22	C08K 7/28
FORMED OF A FLAME-RETARDANT	C08K 5/3475	C08L 101/12
RESIN COMPOSITION	C08K 5/3435	G10K 11/02
(73) Furukawa Electric Co. Ltd.	(11) EP3564309	B06B 1/00
(72) MITSUGI, Shingo	(21) EP17888521.6	(11) EP3890350
HIROISHI, Jirou	(47) 12.07.2023	(21) EP19891422.8
HABU, Koji	(87) KR2017015048	(47) 12.07.2023
NAKAJIMA, Yasuo	05.07.2018	(87) JP2019038207

04.06.2020	READ, Michael, D.	(54) DISPERSE AZO DYES, A PROCESS FOR THE PREPARATION THEREOF AND THE USE THEREOF
(22) 27.09.2019	(31) 201261617768 P	(73) Huntsman Textile Effects (Switzerland) GmbH
(54) RESIN COMPOSITION FOR ACOUSTIC MATCHING LAYER	(32) 30.03.2012	(72) NOWACK, Patric
(73) Nissinbo Holdings Inc.	(33) United States of America	DREIER, Romeo
(72) SAITO, Yoshitaka	(51) C08L 79/00	PETERMANN, Ralf
ISOMOTO, Nana	C08L 79/02	LAUK, Urs
SUZUKI, Takashi	C08K 5/13	(31) 12178163
TOMITA, Hideshi	C08K 5/42	(32) 27.07.2012
(31) 2018221481	C08L 65/00	(33) European Patent Office (EPO)
(32) 27.11.2018	H01G 9/028	(51) C09B 69/10
(33) Japan	C08G 73/02	C09K 19/38
(51) C08L 63/00	(11) EP2441802	C09K 19/60
C08J 5/24	(21) EP10785981.1	C09B 1/22
(11) EP2812393	(47) 12.07.2023	C09B 1/473
(21) EP13706419.2	(87) JP2010003922	C09B 1/58
(47) 12.07.2023	16.12.2010	(11) EP3145997
(87) EP2013000290	(22) 14.06.2010	(21) EP15726030.8
15.08.2013	(54) II-CONJUGATED POLYMER COMPOSITION	(47) 12.07.2023
(22) 30.01.2013	(73) Idemitsu Kosan Co., Ltd.	(87) EP2015060833
(54) EPOXY RESIN FORMULATIONS FOR TEXTILES, MATS AND OTHER FIBROUS REINFORCEMENTS FOR COMPOSITE APPLICATIONS	(72) KURODA, Norihiro	(22) 18.05.2015
(73) Westlake Epoxy Inc.	ONODERA, Shingo	(54) POLYMERIZABLE DICHROIC DYES
(72) LEROY, Alain	(31) 2010066496	(73) ROLIC Technologies AG
DEVELDER, Helga	2009294855	(72) REVEAUD, Frédéric
RUEHLE, Eckard	2009204330	KLEIN, Cédric
RIVIERE, Jean	2009140715	LINCKER, Frédéric
(31) 12008431	(32) 23.03.2010	(31) 14169195
12075011	25.12.2009	(32) 21.05.2014
(32) 19.12.2012	04.09.2009	(33) European Patent Office (EPO)
06.02.2012	12.06.2009	(51) C09C 1/56
(33) European Patent Office (EPO)	(33) Japan	C09C 1/48
European Patent Office (EPO)	Japan	(11) EP4048738
(51) C08L 67/02	(51) C08L 83/07	(21) EP20807905.3
(11) EP4028475	C08K 3/22	(47) 12.07.2023
(21) EP20764907.0	C08K 3/28	(87) IT2020050257
(47) 12.07.2023	C08K 5/29	29.04.2021
(87) US2020047308	C08K 5/5415	(22) 23.10.2020
18.03.2021	C08K 7/06	(54) ECOLOGICAL PURIFICATION AND REACTIVATION PROCESS OF CARBON BLACK OBTAINED FROM THE PYROLYSIS OF USED TYRES
(22) 21.08.2020	C08L 83/05	(73) T.E.C. S.r.l.
(54) COMPATIBILIZED POLYMERIC COMPOSITIONS FOR OPTICAL FIBER CABLE COMPONENTS	(11) EP3981836	(72) CATALDO, Franco
(73) Dow Global Technologies LLC	(21) EP21829487.4	PRIORI, Angelo
(72) ESSEGHIR, Mohamed	(47) 12.07.2023	(31) 201900019595
COGEN, Jeffrey M.	(87) JP2021019617	(32) 23.10.2019
SEVEN, Karl M.	30.12.2021	(33) Italy
(31) 201962899823 P	(22) 24.05.2021	(51) C09D 4/06
(32) 13.09.2019	(54) THERMALLY CONDUCTIVE RESIN COMPOSITION AND THERMALLY CONDUCTIVE SHEET USING THE SAME	(11) EP3775055
(33) United States of America	(73) Dexerials Corporation	(21) EP19709945.0
(51) C08L 75/14	(72) MATSUSHIMA, Masayuki	(47) 12.07.2023
(11) EP2841502	(31) 2020110874	(87) EP2019056047
(21) EP13879246.0	(32) 26.06.2020	03.10.2019
(47) 12.07.2023	(33) Japan	(22) 11.03.2019
(87) US2013033101	(51) C09B 67/22	(54) THREE-DIMENSIONAL ARTICLES MADE BY ADDITIVE MANUFACTURING HAVING REDUCED SURFACE HAZE
18.12.2014	C09B 29/08	(73) Henkel AG & Co. KGaA
(22) 20.03.2013	C09B 43/42	(72) BRANAGAN, David
(54) DISPERSION OF A FUNCTIONALIZED POLYOLEFIN IN A POLYOL	C09B 29/01	KENNEDY, Lisa
(73) Dow Global Technologies LLC	C09B 29/036	SMYTH, Martin
(72) ADRIAN, David, J.	C09B 29/033	FITZPATRICK, Darragh
CLAESSENS, Sven	(11) EP2877628	HERSEE, Rachel
VIRGILI, Justin, M.	(21) EP13731767.3	(31) 201805017
SONNENSCHNEIN, Mark, F.	(47) 12.07.2023	(32) 28.03.2018
WENDT, Benjamin, L.	(87) EP2013063346	
STRANDBURG, Gary, M.	30.01.2014	
	(22) 26.06.2013	

(33) United Kingdom	(33) Japan	(31) 102013216781
(51) C09D 5/00	Japan	(32) 23.08.2013
(11) EP3916067	Japan	(33) Germany
(21) EP20176894.2	(51) C09D 7/62	(51) C09D 191/00
(47) 12.07.2023	C09C 1/00	C09D 133/08
(22) 27.05.2020	C08K 9/06	C08K 5/01
(54) BIOCEMENTATION MIXTURE FOR DUST SUPPRESSION	C08K 9/10	A47B 1/10
(73) Bind-X GmbH	C08K 3/08	A47B 88/00
(72) Fried, Luitpold	(11) EP3775062	B05D 5/08
Spitznagel, Martin	(21) EP19712229.4	B05D 7/16
Pazur, Saskia	(47) 12.07.2023	B32B 15/08
Merkel, Jan-Philip	(87) EP2019057676	B23Q 1/00
Hornung, Florian	03.10.2019	C07C 9/14
(51) C09D 5/00	(22) 27.03.2019	C07C 9/22
C09D 5/16	(54) METHOD FOR MANUFACTURING BISMUTH VANADATE PIGMENT HAVING AN IMPROVED ALKALINE RESISTANCE	C25D 11/20
(11) EP3910032	(73) Ferro Performance Pigments Belgium	C25D 13/12
(21) EP21182618.5	(72) SABERI, Ali	E05D 15/06
(47) 12.07.2023	DEVREUX, Vincent	F16C 29/00
(22) 18.07.2017	CLABAUX, Emmanuelle	F16C 29/02
(54) ANTIMICROBIAL PAINT COMPOSITION AND RELATED METHODS	VERSPAILLE, Greta	F16C 33/10
(73) Behr Process Corporation	MARCH, Ricard	(11) EP3589426
(72) Sarnecki, Greg J.	D'HAEEVELOOSE, Jurgen	(21) EP18761158.7
Schwengel, Bill R.	(31) 18164365	(47) 12.07.2023
Gilbert, John A.	(32) 27.03.2018	(87) SE2018050200
(31) 201662363922 P	(33) European Patent Office (EPO)	07.09.2018
(32) 19.07.2016	(51) C09D 175/14	(22) 02.03.2018
(33) United States of America	C09D 4/00	(54) FURNITURE LUBRICANT COMPRISING A C10 TO C28 ALKANE AND A TRI-GLYCERIDE
(51) C09D 5/02	C09D 7/63	(73) IKEA Supply AG
C08K 3/36	C09D 7/65	(72) ANDERSSON, Benny
C09D 7/61	C08J 7/04	(31) 1750237
C08K 3/22	C08G 18/42	(32) 03.03.2017
(11) EP3694932	C08G 18/67	(33) Sweden
(21) EP18814665.8	C08G 18/75	(51) C09J 7/00
(47) 12.07.2023	C09D 175/16	B32B 27/00
(87) FI2018050734	C09D 7/40	B32B 27/40
18.04.2019	(11) EP3572474	C08G 18/62
(22) 11.10.2018	(21) EP18788131.3	C08J 5/18
(54) METHOD OF PRODUCING AN ELASTIC COATING AND AN ELASTIC COATING	(47) 12.07.2023	C09J 175/04
(73) Build Care Oy	(87) KR2018004530	G09F 9/00
(72) KOPONEN, Vesa	25.10.2018	C09J 7/30
(31) 20175894	(22) 19.04.2018	C09J 7/10
(32) 11.10.2017	(54) BIOMATERIAL-BASED UV COATING COMPOSITION	H01L 21/00
(33) Finland	(73) LG Hausys, Ltd.	(11) EP3412740
(51) C09D 5/28	(72) KIM, Heon Jo	(21) EP17747202.4
C09D 11/101	PARK, Dong Hyung	(47) 12.07.2023
B32B 27/08	CHO, Hyemin	(87) JP2017001680
(11) EP3053738	YUN, Sam Hun	10.08.2017
(21) EP14848303.5	PARK, Jongdae	(22) 19.01.2017
(47) 12.07.2023	SEO, Ji Yeon	(54) OPTICAL TRANSPARENT ADHESIVE SHEET, OPTICAL TRANSPARENT ADHESIVE SHEET PRODUCTION METHOD, LAMINATE, AND TOUCH PANEL-EQUIPPED DISPLAY DEVICE
(87) JP2014075972	(31) 20170051609	(73) Bando Chemical Industries, Ltd.
02.04.2015	(32) 21.04.2017	(72) NAKANE, Soichiro
(22) 29.09.2014	(33) Korea (Republic)	HOSOKAWA, Yuki
(54) DECORATIVE SHEET AND DECORATIVE RESIN MOLDED ARTICLE	(51) C09D 183/04	ONISHI, Jun
(73) DAI NIPPON PRINTING CO., LTD.	(11) EP3036296	(31) 2016018254
(72) KATAOKA, Sakie	(21) EP14744854.2	(32) 02.02.2016
HIROSE, Emi	(47) 12.07.2023	(33) Japan
(31) 2014070293	(87) EP2014066374	(51) C09J 7/24
2014070292	26.02.2015	G09F 3/02
2013204239	(22) 30.07.2014	B32B 27/32
(32) 28.03.2014	(54) COATING COMPOUNDS	C08L 23/06
28.03.2014	(73) Evonik Operations GmbH	C08L 23/08
30.09.2013	(72) FERENZ, Michael	(11) EP3112152
	FIEDEL, Michael	
	KLOTZBACH, Thomas	

(21) EP16184928.6	(22) 11.05.2011	(72) MAKKONEN, Jaana
(47) 12.07.2023	(54) PVC-FREE CLOSURES	KANERVO, Jaana
(22) 15.03.2013	(73) Actega DS GmbH	TIITTA, Marja
(54) A METHOD FOR PRODUCING A LABEL AND A LABEL	(72) MÄNGEL, Dany	MYLLYOJA, Jukka
(73) UPM Raflatac Oy	(51) C09K 5/04	(31) 20186145
(72) VÄHÄLÄ, Martti	F25B 1/00	20186144
SAXBERG, Tom	(11) EP3730579	(32) 31.12.2018
MITCHELL, Noel	(21) EP18891868.4	31.12.2018
(31) 20125333	(47) 12.07.2023	(33) Finland
(32) 23.03.2012	(87) JP2018038749	Finland
(33) Finland	27.06.2019	(51) C10G 67/04
(51) C09J 7/38	(22) 17.10.2018	C10G 21/00
C09J 133/04	(54) COMPOSITION CONTAINING REFRIGERANT, USE OF SAID COMPOSITION, REFRIGERATOR HAVING SAID COMPOSITION, AND METHOD FOR OPERATING SAID REFRIGERATOR	C10C 3/08
C08K 5/00	(73) DAIKIN INDUSTRIES, LTD.	C10G 55/06
(11) EP3645647	(72) TAKAHASHI, Kazuhiro	C10G 65/14
(21) EP18736842.8	KARUBE, Daisuke	C10G 65/16
(47) 12.07.2023	YOTSUMOTO, Yuuki	C10G 69/14
(87) EP2018067149	ITANO, Mitsubishi	C10G 65/10
03.01.2019	OHKUBO, Shun	(11) EP2947133
(22) 26.06.2018	(31) 2017242185	(21) EP15305574.4
(54) METHOD FOR PRODUCING AN ADHESIVE TAPE	(32) 18.12.2017	(47) 12.07.2023
(73) Certoplast Technische Klebebänder GmbH	(33) Japan	(22) 16.04.2015
(72) MEIER, Thorsten	(51) C09K 11/77	(54) METHOD FOR CONVERTING A HEAVY HYDROCARBON FEEDSTOCK INCLUDING SELECTIVE DE-ASPHALTING UPSTREAM FROM THE CONVERSION STEP
(31) 102017114266	H01L 33/50	(73) IFP Energies nouvelles
(32) 27.06.2017	C01B 21/082	(72) Majcher, Jerome
(33) Germany	(11) EP4069801	Feugnet, Frédéric
(51) C09J 201/00	(21) EP20829256.5	Merdrignac, Isabelle
C09J 4/02	(47) 12.07.2023	(31) 1454576
C09J 5/06	(87) US2020063385	(32) 21.05.2014
C09J 11/06	10.06.2021	(33) France
H01L 21/52	(22) 04.12.2020	(51) C10J 3/36
H01L 25/065	(54) NARROW BAND EMITTING SIALON PHOSPHOR	C10J 3/66
H01L 25/07	(73) Lumileds LLC	(11) EP3694956
H01L 25/18	(72) WEILER, Volker	(21) EP18792378.4
(11) EP3222692	STROBEL, Philipp-Jean	(47) 12.07.2023
(21) EP15860929.7	TUCKS, Andreas	(87) DK2018050256
(47) 12.07.2023	SCHMIDT, Peter Josef	18.04.2019
(87) JP2015076678	(31) 202017110080	(22) 12.10.2018
26.05.2016	201962944025 P	(54) A GASIFICATION UNIT, A METHOD FOR PRODUCING A PRODUCT GAS AND USE OF SUCH A METHOD
(22) 18.09.2015	20151188	(73) Danmarks Tekniske Universitet
(54) INKJET PHOTO- AND HEAT-CURABLE ADHESIVE, SEMICONDUCTOR DEVICE MANUFACTURING METHOD, AND ELECTRONIC PART	(32) 02.12.2020	(72) ØSTERGAARD, Rasmus Gadsbøl
(73) Sekisui Chemical Co., Ltd.	05.12.2019	AHRENFELDT, Jesper
(72) FUJITA, Yoshito	10.01.2020	HENRIKSEN, Ulrik Birk
WATANABE, Takashi	(33) United States of America	(31) PA201770775
TANIKAWA, Mitsuru	United States of America	(32) 12.10.2017
INOUE, Takanori	European Patent Office (EPO)	(33) Denmark
INUJ, Osamu	(51) C10G 3/00	(51) C10J 3/52
FUJITA, Yusuke	C10L 1/04	C10J 3/72
TAKAHASHI, Ryosuke	C10M 105/04	C10J 3/82
UEDA, Michihisa	C10N 30/00	(11) EP3819359
(31) 2015144911	C10N 60/02	(21) EP19208115.6
2014232996	C10N 60/04	(47) 12.07.2023
(32) 22.07.2015	(11) EP3887483	(22) 08.11.2019
17.11.2014	(21) EP19906703.4	(54) METHOD AND DEVICE FOR ADJUSTING THE FILL LEVEL IN A FLOATING BED REACTOR
(33) Japan	(47) 12.07.2023	(73) SynCraft Engineering GmbH
Japan	(87) FI2019050917	(72) KRUEGER, Jan
(51) C09K 3/10	09.07.2020	HUBER, Marcel
B65D 41/04	(22) 20.12.2019	KREUTNER, Georg
C08K 5/00	(54) METHOD FOR PRODUCING RENEWABLE BASE OIL AND RENEWABLE FUEL COMPONENTS	(51) C10L 1/188
(11) EP3699251	(73) Neste Oyj	C10L 1/197
(21) EP20162703.1		
(47) 12.07.2023		

C10L 1/22	(32) 30.01.2018	(21) EP16797209.0
C10L 1/222	(33) United Kingdom	(47) 12.07.2023
C10L 1/224	(51) C10M 149/12	(87) US2016033067
C10L 1/2387	C10M 149/14	24.11.2016
C10M 133/04	C10M 159/12	(22) 18.05.2016
C10M 133/08	C10N 40/25	(54) EFFICIENT SURFACTANT SYSTEM ON
C10M 133/16	C10N 30/02	PLASTIC AND ALL TYPES OF WARE
C10N 30/04	C10N 30/04	(73) Ecolab USA Inc.
C10N 40/25	C10N 30/06	(72) DAILEY, James S.
(11) EP3383978	(11) EP3194538	GESSNER, Thomas
(21) EP16822790.8	(21) EP15778420.8	KIEFFER, Janel M.
(47) 12.07.2023	(47) 12.07.2023	EVERSON, Terrence P.
(87) US2016064612	(87) US2015050157	TROPSCH, Juergen
08.06.2017	24.03.2016	(31) 201562163454 P
(22) 02.12.2016	(22) 15.09.2015	(32) 19.05.2015
(54) ULTRA-LOW MOLECULAR WEIGHT	(54) USE OF DISPERSANT VISCOSITY	(33) United States of America
AMIDE/ESTER CONTAINING	MODIFIERS WITH AMINE	(51) C11D 1/835
QUATERNARY AMMONIUM SALTS	FUNCTIONALITY	C11D 1/68
HAVING SHORT HYDROCARBON	(73) The Lubrizol Corporation	C11D 1/62
TAILS	(72) ZHANG, Yanshi	C11D 3/08
(73) The Lubrizol Corporation	SLOCUM, Sona, S.	C11D 3/36
(72) BUSH, James H.	PRESTON, Adam	(11) EP3374487
STEVENSON, Paul R.	GIESELMAN, Matthew, D.	(21) EP16865183.4
GREENFIELD, Hannah	(31) 201462050325 P	(47) 12.07.2023
ARTERS, David C.	(32) 15.09.2014	(87) US2016061737
MORETON, David J.	(33) United States of America	18.05.2017
ADAMS, Paul E.	(51) C10M 161/00	(22) 14.11.2016
(31) 201562262140 P	C10M 167/00	(54) LOW-FOAMING WAREWASH
(32) 02.12.2015	(11) EP2814920	DETERGENT CONTAINING MIXED
(33) United States of America	(21) EP13706137.0	CATIONIC/NONIONIC SURFACTANT
(51) C10L 3/10	(47) 12.07.2023	SYSTEM FOR ENHANCED OILY SOIL
B01D 9/00	(87) US2013025669	REMOVAL
C07C 29/76	22.08.2013	(73) Ecolab USA Inc.
C02F 1/52	(22) 12.02.2013	(72) ROERDINK-LANDER, Monique
C02F 101/10	(54) LUBRICANT ADDITIVE BOOSTER	MANSERGH, John
C02F 103/10	SYSTEM	LUEDTKE, Matthew
(11) EP3129450	(73) The Lubrizol Corporation	FU, Richard
(21) EP15716695.0	(72) KELLEY, Jack C.	DOTZAUER, David
(47) 12.07.2023	JONES, Craig J.	SANDERS, Lisa
(87) US2015024316	DEREVJANIK, Thomas S.	SILVERNAIL, Carter
15.10.2015	DAVIES, Mark C.	(31) 201510767603
(22) 03.04.2015	(31) 201261599509 P	(32) 12.11.2015
(54) DIVALENT ION REMOVAL FROM	(32) 16.02.2012	(33) China
MONOETHYLENE GLYCOL-WATER	(33) United States of America	(51) C11D 3/37
STREAMS	(51) C11B 1/12	(11) EP3983514
(73) Cameron Solutions, Inc.	C11B 3/00	(21) EP20744202.1
(72) MESSENGER, Brian, E.	C11B 3/04	(47) 12.07.2023
(31) 201414247003	C11B 5/00	(87) US2020034804
(32) 07.04.2014	(11) EP2944683	17.12.2020
(33) United States of America	(21) EP14187154.1	(22) 28.05.2020
(51) C10M 141/08	(47) 12.07.2023	(54) A POLYMER FOR CLEANING
C10M 111/04	(22) 30.09.2014	BOOSTING
C10N 10/04	(54) Feed supplement for the formulation of	(73) Dow Global Technologies LLC
C10N 10/12	feeds destined to aquatic organisms,	Rohm and Haas Company
C10N 30/06	especially fishes and crustaceans under	(72) ROBERTS, Roy
C10N 40/02	industrial cultivation	DONOVAN, Stephen
C10N 40/04	(73) Trio S.A.	PEERA, Asghar, A.
C10N 30/00	(72) Perez Rodriguez, Victor Alberto	(31) 201962861473 P
(11) EP3746529	Luque Camino, Ana Francisca	(32) 14.06.2019
(21) EP19702383.1	(31) 2014001287	(33) United States of America
(47) 12.07.2023	(32) 15.05.2014	(51) C11D 3/37
(87) EP2019051956	(33) Chile	(11) EP3983515
08.08.2019	(51) C11D 1/72	(21) EP20744203.9
(22) 28.01.2019	C11D 1/722	(47) 12.07.2023
(54) LUBRICANT COMPOSITION	C11D 1/825	(87) US2020034805
(73) Castrol Limited	C11D 3/20	17.12.2020
(72) SIMMS, Jonathan	C11D 3/37	(22) 28.05.2020
(31) 201801489	(11) EP3313967	

(54) LIQUID LAUNDRY DETERGENT WITH CLEANING BOOSTER	(54) WATER-SOLUBLE UNIT DOSE ARTICLE	(32) 14.03.2018 (33) Germany
(73) Rohm and Haas Company Dow Global Technologies LLC	(73) The Procter & Gamble Company	(51) C12N 5/077
(72) ROBERTS, Roy PEERA, Asghar, A. DONOVAN, Stephen	(72) MARTINEZ-BECARES, Alberto COLACE, Gianmarco BRANDT-SANZ, Miguel	A61P 3/00 A61P 3/04 A61P 3/10 C12N 5/0775
(31) 201962861475 P	(31) 19193970	(11) EP3795678
(32) 14.06.2019	(32) 28.08.2019	(21) EP20204990.4
(33) United States of America	(33) European Patent Office (EPO)	(47) 12.07.2023
(51) C11D 3/37 C11D 3/00	(51) C12M 1/107 B01D 53/52 B01J 12/00 B01J 19/26 C10L 3/10 C12M 1/00	(22) 17.04.2014 (54) HUMAN BROWN ADIPOSE DERIVED STEM CELLS AND USES
(11) EP3983512	(11) EP3848446	(73) Silva, Francisco, Javier Biorestorative Therapies, Inc.
(21) EP20733146.3	(21) EP21150310.7	(72) SILVA, Francisco Javier
(47) 12.07.2023	(47) 12.07.2023	(31) 201361906087 P 201361813771 P
(87) US2020034800 17.12.2020	(22) 05.01.2021	(32) 19.11.2013 19.04.2013
(22) 28.05.2020	(54) DIGESTER COMPRISING AN OXYGEN INJECTION SYSTEM HAVING A TUBULAR MEANS ARRANGED IN GRID PATTERN	(33) United States of America United States of America
(54) CLEANING BOOSTER POLYMER	(73) L'Air Liquide, société anonyme pour l'Étude et l'Exploitation des procédés Georges Claude	(51) C12N 9/10 C12N 15/52 C12N 15/77 C12P 19/32
(73) Rohm and Haas Company Dow Global Technologies LLC	(72) VALENTIN, Solène FRIMAT, David TRUEBA, Antonio SEIWERT, Jacopo BERTRANDIAS, Aude OLLIER, Jérémy	(11) EP3739044 (21) EP19762700.3 (47) 12.07.2023 (87) KR2019008924 01.10.2020 (22) 19.07.2019
(72) PEERA, Asghar A. DONOVAN, Stephen CREAMER, Marianne	(31) 2000178 (32) 09.01.2020 (33) France	(54) VARIANT PHOSPHORIBOSYL PYROPHOSPHATE AMIDOTRANSFERASE AND METHOD FOR PRODUCING PURINE NUCLEOTIDE BY USING SAME
(31) 201962861467 P	(51) C12M 1/34 C12M 1/00	(73) Cj Cheiljedang Corporation
(32) 14.06.2019	(11) EP3775151 (21) EP19711135.4 (47) 12.07.2023 (87) EP2019057092 03.10.2019	(72) LEE, Ji Hye BAEK, Min Ji PARK, So Jung (31) 20190035683 (32) 28.03.2019
(33) United States of America	(33) Korea (Republic)	(33) Korea (Republic)
(51) C11D 3/37 C11D 3/00	(73) The Automation Partnership (Cambridge) Limited	(51) C12N 9/12 G01N 33/542
(11) EP3983511	(72) STACEY, Adrian GRACE, Edmund HUTTLESTONE, Daren	(11) EP3844270 (21) EP19769998.6 (47) 12.07.2023 (87) EP2019073179 05.03.2020 (22) 30.08.2019
(21) EP20733145.5	(31) 18164441 (32) 27.03.2018 (33) European Patent Office (EPO)	(54) CALCIUM DEPENDENT PROTEIN KINASE CONSTRUCTS AND USES THEREOF
(47) 12.07.2023	(51) C12M 1/42 (11) EP3765594 (21) EP19710617.2 (47) 12.07.2023 (87) EP2019054983 19.09.2019	(73) Leibniz-Institut für Pflanzenbiochemie (IPB)
(87) US2020034799 17.12.2020	(22) 28.02.2019	(72) LIESE, Anja ROMEIS, Tina
(22) 28.05.2020	(54) MICROWAVE PORATOR	(31) 18191949 (32) 31.08.2018 (33) European Patent Office (EPO)
(54) LIQUID LAUNDRY DETERGENT FORMULATION	(73) Technische Universität Darmstadt	(51) C12N 9/22 C12N 15/52
(73) Rohm and Haas Company Dow Global Technologies LLC	(72) SCHMIDT, Sönke CARDOSO, Maria Cristina HERCE, Henry David SCHÜSSLER, Martin JAKOBY, Rolf BERTULAT, Bianca	(11) EP3374501 (21) EP16797827.9 (47) 12.07.2023 (87) EP2016077487
(72) DONOVAN, Stephen CREAMER, Marianne PEERA, Asghar A.	(31) 102018105931	
(31) 201962861470 P		
(32) 14.06.2019		
(33) United States of America		
(51) C11D 17/04 C11D 17/04		
(11) EP4038174		
(21) EP20743714.6		
(47) 12.07.2023		
(87) EP2020071111 08.04.2021		
(22) 27.07.2020		
(54) MACHINE DISHWASHER CAPSULE WITH THREE COMPARTMENTS		
(73) Unilever IP Holdings B.V.		
(72) BOUX DE CASSON, Alexandre, François ADAMS, Amanda, Jane MIXTRO SERRASQUEIRO, Marina		
(31) 19200470		
(32) 30.09.2019		
(33) European Patent Office (EPO)		
(51) C11D 17/04 B65D 65/46		
(11) EP3786275		
(21) EP20169589.7		
(47) 12.07.2023		
(22) 15.04.2020		

18.05.2017	(22) 23.10.2009	JORIS, Bernard
(22) 11.11.2016	(54) MULTIPLE EXON SKIPPING	(31) 19193190
(54) CRISPR-ASSOCIATED (CAS)	COMPOSITIONS FOR DMD	(32) 22.08.2019
PROTEINS WITH REDUCED	(73) Sarepta Therapeutics, Inc.	(33) European Patent Office (EPO)
IMMUNOGENICITY	(72) SAZANI, Peter	(51) C12Q 1/6804
(73) Lonza Ltd	KOLE, Ryszard	C12Q 1/6827
(72) ZURDO, Jesús	(31) 108416 P	(11) EP3650553
SMITH, Noel Hillier	(32) 24.10.2008	(21) EP18204788.6
PAYNE, Thomas	(33) United States of America	(47) 12.07.2023
(31) 201562253961 P	(51) C12P 21/04	(22) 07.11.2018
(32) 11.11.2015	C12P 21/06	(54) METHOD FOR DETECTION OF
(33) United States of America	C12N 1/20	SPECIFIC NUCLEIC ACIDS
(51) C12N 9/78	C12N 15/00	(73) Siemens Healthcare GmbH
C12P 21/06	C12N 15/67	(72) Würstle, Maximilian
(11) EP3487998	C12N 15/74	Huang, Yiwei
(21) EP16909733.4	C07K 14/535	Mach, Tivadar
(47) 12.07.2023	C07K 14/62	Prause, Stefan
(87) US2016054525	C07K 14/635	(51) C12Q 1/6806
25.01.2018	C12N 9/64	G01N 33/53
(22) 29.09.2016	(11) EP3227455	(11) EP3728632
(54) COMPOSITIONS AND METHODS	(21) EP15866061.3	(21) EP18842809.8
FOR IDENTIFYING RNA BINDING	(47) 12.07.2023	(47) 12.07.2023
POLYPEPTIDE TARGETS	(87) US2015063027	(87) FR2018053533
(73) Brandeis University	09.06.2016	27.06.2019
(72) XU, Weijin	(22) 30.11.2015	(22) 21.12.2018
ROSBASH, Michael	(54) FUSION PARTNERS FOR PEPTIDE	(54) DOUBLE-STRANDED DNA
MCMAHON, Aoife	PRODUCTION	MOLECULE FOR DETECTING AND
JIN, Hua	(73) Pfenex Inc.	CHARACTERIZING MOLECULAR
(31) 201662364170 P	(72) RETALLACK, Diane M.	INTERACTIONS
(32) 19.07.2016	CHAPMAN, Adam	(73) Institut National de la Santé et de la
(33) United States of America	JIN, Hongfan	Recherche Médicale (INSERM)
(51) C12N 15/10	BRUCK, Torben R.	Paris Sciences et Lettres
A61B 10/02	(31) 201462086119 P	Ecole Normale Supérieure
(11) EP3455354	(32) 01.12.2014	Centre National de la Recherche
(21) EP17722791.5	(33) United States of America	Scientifique (CNRS)
(47) 12.07.2023	(51) C12Q 1/00	Université Paris Cité
(87) EP2017061304	C12Q 1/34	(72) KOSTRZ, Dorota
16.11.2017	C12Q 1/56	STRICK, TERENCE
(22) 11.05.2017	G01N 33/579	NADAL, Marc
(54) PROTEIN-BASED SAMPLE	C07K 1/34	WANG, Jinglong
COLLECTION MATRICES AND	(11) EP3943608	GOSSE, Charlie
DEVICES	(21) EP21183657.2	(31) 1762848
(73) F. Hoffmann-La Roche AG	(47) 12.07.2023	(32) 21.12.2017
(72) WILL, Stephen	(22) 02.08.2017	(33) France
(31) 201662336342 P	(54) METHOD OF PRODUCING LIMULUS	(51) C12Q 1/6827
(32) 13.05.2016	AMEBOCYTE LYSATE	C40B 30/04
(33) United States of America	(73) Lonza Walkersville, Inc.	C12Q 1/6869
(51) C12N 15/10	(72) NICHOLS, Kenneth, E.	(11) EP3495506
C12Q 1/68	HERBST, David, S.	(21) EP18202891.0
C12Q 1/6806	STUMBAUGH, Candice	(47) 12.07.2023
(11) EP3578652	(31) 201662370493 P	(22) 11.12.2014
(21) EP18208038.2	(32) 03.08.2016	(54) METHODS FOR DETECTING RARE
(47) 12.07.2023	(33) United States of America	SEQUENCE VARIANTS
(22) 13.03.2014	(51) C12Q 1/18	(73) AccuraGen Holdings Limited
(54) RIBONUCLEIC ACID PURIFICATION	G01N 33/94	(72) Tang, Paul Ling-Fung
(73) ModernaTX, Inc.	(11) EP3997240	Sun, Zhaohui
(72) Aunins, John Grant	(21) EP20754605.2	Zhao, Grace Qizhi
Issa, William Joseph	(47) 12.07.2023	Lin, Shengrong
Bancel, Stephane	(87) EP2020073473	(31) 201462010975 P
(31) 201361794842 P	25.02.2021	201461987414 P
(32) 15.03.2013	(22) 21.08.2020	201361914907 P
(33) United States of America	(54) METHODS FOR DETERMINING	(32) 11.06.2014
(51) C12N 15/113	THE CONCENTRATION OF A	01.05.2014
C12N 15/11	CARBAPENEM ANTIBIOTIC IN A	11.12.2013
A61K 31/712	BIOLOGICAL SAMPLE	(33) United States of America
(11) EP3875587	(73) Université de Liège	United States of America
(21) EP21155461.3	(72) AMOROSO, Ana	United States of America
(47) 12.07.2023	VERLAINE, Olivier	(51) C12Q 1/6844

C12Q 1/6862	WITTMANN, Diana	Handelmaatschappij A. Smit en Zoon
(11) EP3697930	USBECK, Sylvia	B.V.
(21) EP18789144.5	SUMMER, Burkhard	(72) MULDER, Wilhelmus Johannes
(47) 12.07.2023	(31) 102018104133	MA, Yujie
(87) EP2018078737	(32) 23.02.2018	EHRHART, Wolfgang
25.04.2019	(33) Germany	VAN DER KLIS, Frits
(22) 19.10.2018	(51) C12Q 1/6886	VAN HAVEREN, Jacco
(54) PRIMER-INDEPENDENT DNA	(11) EP3981885	(31) 18164636
POLYMERASES AND THEIR USE FOR	(21) EP21200307.3	(32) 28.03.2018
DNA SYNTHESIS	(47) 12.07.2023	(33) European Patent Office (EPO)
(73) Consejo Superior de Investigaciones	(22) 17.12.2013	(51) C14C 11/00
Científicas	(54) METHOD FOR DETERMINING THE	(11) EP3981888
Institut Pasteur	DEGREE OF DNA METHYLATION	(21) EP21190109.5
(72) FORTERRE, Patrick	(73) Santourlidis, Simeon	(47) 12.07.2023
SALAS FALGUERAS, Margarita	(72) Wernet, Peter	(22) 06.08.2021
REDREJO RODRIGUEZ, Modesto	Arauzo Bravo, Marcos	(54) FINISHING AGENT FOR LEATHER
KRUPOVIC, Mart	Ghanjati, Foued	(73) Schill + Seilacher GmbH
(31) 201731236	Ackermann, Rolf	(72) Armbruster, Wolfgang
(32) 20.10.2017	Santourlidis, Simeon	Nagel, Siegfried
(33) Spain	Beermann, Agnes	Schelle, Stefan
(51) C12Q 1/6853	(31) 12199152	Schweizer, Andy
C12Q 1/6806	(32) 21.12.2012	(31) 202020104808 U
(11) EP3924512	(33) European Patent Office (EPO)	(32) 19.08.2020
(21) EP20705331.5	(51) C12Q 1/6886	(33) Germany
(47) 12.07.2023	G16B 20/00	(51) C21B 13/12
(87) EP2020053487	G16B 40/20	B01D 53/60
20.08.2020	(11) EP4031688	C21B 13/00
(22) 11.02.2020	(21) EP20801170.0	C22B 1/24
(54) PROTOCOLS AND KITS FOR	(47) 12.07.2023	C01B 32/50
MULTIPLEX AMPLIFICATION AND	(87) EP2020079612	C22B 1/243
NGS-SPECIFIC TAGGING	29.04.2021	C22B 1/244
(73) Biocartis NV	(22) 21.10.2020	C22B 1/245
(72) MEERSSEMAN, Geert	(54) IN VITRO METHOD FOR	B01D 53/14
(31) 19156801	DETERMINING THE RISK OF	B01D 53/22
(32) 12.02.2019	DEVELOPING BREAST CANCER IN A	B01D 53/26
(33) European Patent Office (EPO)	SUBJECT	B01D 53/62
(51) C12Q 1/6869	(73) Sistemas Genómicos, S.L.	(11) EP3986596
C12N 15/87	(72) CORTINA GIL, Belén	(21) EP20760837.3
(11) EP3500685	LEGARDA CRISTÓBAL, Garikoitz	(47) 12.07.2023
(21) EP17841944.6	CABO DíEZ, Miguel	(87) EP2020073455
(47) 12.07.2023	MIÑAMBRES HERRAIZ, Rebeca	04.03.2021
(87) US2017046794	PITA MACPHERSON, Guillermo	(22) 21.08.2020
22.02.2018	CEBA PERIS, Andrea	(54) METHOD AND A DIRECT REDUCTION
(22) 14.08.2017	BERNAD PALOMARES, Lucía	PLANT FOR PRODUCING DIRECT
(54) HIGH THROUGHPUT OIL-EMULSION	GONZÁLEZ NEIRA, Ana Isabel	REDUCED IRON
SYNTHESIS OF BOWTIE BARCODES	TRIVIÑO PARDO, Juan Carlos	(73) Karner, Wilhelm
FOR PAIRED MRNA CAPTURE AND	RIBAS DESPUIG, Gloria	SCHULTES, John W.
SEQUENCING FROM INDIVIDUAL	DÍAZ CHACÓN, José Leonardo	(72) Karner, Wilhelm
CELLS	RUBIO SOLSONA, Estrella	SCHULTES, John W.
(73) Arizona Board of Regents on behalf of	ROSA FERRERRO, Ricardo	(31) 2772019
Arizona State University	BENÍTEZ ORTIZ, Javier	(32) 23.08.2019
(72) BLATTMAN, Joseph	(31) 19382918	(33) Austria
SCHOETTLE, Louis	(32) 22.10.2019	(51) C21C 7/00
(31) 201662377123 P	(33) European Patent Office (EPO)	C21D 8/02
(32) 19.08.2016	(51) C14C 3/08	F27D 3/00
(33) United States of America	C14C 3/28	C22C 38/40
(51) C12Q 1/6883	C14C 9/00	C22C 38/58
(11) EP3755815	C14C 9/02	C22C 38/48
(21) EP19714312.6	(11) EP3775293	C22C 38/46
(47) 12.07.2023	(21) EP19712614.7	C22C 38/50
(87) DE2019200006	(47) 12.07.2023	C22C 38/44
29.08.2019	(87) EP2019057907	C22C 38/42
(22) 04.02.2019	03.10.2019	C22C 38/00
(54) BIOMARKER FOR DETECTING A	(22) 28.03.2019	C21D 1/28
POSSIBLE INCOMPATABILITY WITH	(54) TREATMENT OF LEATHER INCLUDING	C21C 7/072
RESPECT TO METAL IMPLANTS	EMPLOYING PECTIN	(11) EP3561124
(73) Klinikum der Universität München	(73) Exploitiemaatschappij Smit-Vecht B.V.	(21) EP17883354.7
(72) THOMAS, Peter		(47) 12.07.2023



(87) KR2017014847 28.06.2018	C25C 7/00	C21D 8/02
(22) 15.12.2017	(11) EP3686299	C21D 9/46
(54) STEEL MATERIAL FOR PRESSURE VESSELS WHICH HAS EXCELLENT RESISTANCE TO HYDROGEN INDUCED CRACKING AND MANUFACTURING METHOD THEREOF	(21) EP18859742.1	C22C 38/02
(73) POSCO Co., Ltd	(47) 12.07.2023	C22C 38/24
(72) KIM, Dae-Woo CHA, Woo-Yeol	(87) CN2018095674 28.03.2019	(11) EP3730647
(31) 20160178221	(22) 13.07.2018	(21) EP18890351.2
(32) 23.12.2016	(54) ENVIRONMENTALLY FRIENDLY PROCESS FOR EXTRACTING SILVER	(47) 12.07.2023
(33) Korea (Republic)	(73) Institute of Process Engineering, Chinese Academy of Sciences	(87) KR2018014462 27.06.2019
(51) C21D 8/12	(72) ZHANG, Hui DONG, Xulong	(22) 22.11.2018
C21D 9/46	(72) ZHANG, Hui DONG, Xulong	(54) HIGH-STRENGTH HOT-ROLLED STEEL SHEET HAVING EXCELLENT BENDABILITY AND LOW- TEMPERATURE TOUGHNESS AND METHOD FOR MANUFACTURING SAME
C23C 8/28	(31) 201710859553	(73) POSCO Co., Ltd
C22C 38/02	(32) 21.09.2017	(72) KANG, Hee-Sung
C22C 38/04	(33) China	KIM, Sung-Il
C21D 1/42	(51) C22C 1/04	TAK, Hyun-Seok
C23C 2/02	C22C 21/00	(31) 20170178826
C23C 2/26	C22C 45/08	(32) 22.12.2017
C23C 22/20	(11) EP3976844	(33) Korea (Republic)
C23G 1/08	(21) EP20754315.8	(51) C22C 38/24
C21D 9/56	(47) 12.07.2023	C22C 38/02
H01F 1/18	(87) FR2020050697 03.12.2020	C22C 38/04
C21D 1/26	(22) 23.04.2020	C22C 38/22
C23C 8/80	(54) ALUMINUM-BASED ALLOY HAVING IMPROVED MECHANICAL STRENGTH IN AGEING AT HIGH TEMPERATURES AND ADAPTED TO RAPID SOLIDIFICATION	B29C 33/38
C23C 24/08	(73) Safran	C21D 1/18
C22C 38/00	(72) AUGUSTIN, Rémi, Marie, François MENO, Edern	C21D 1/25
C22C 38/06	(31) 1905643	C21D 1/32
C22C 38/08	(32) 28.05.2019	C22C 33/02
C22C 38/16	(33) France	C22C 38/00
C22C 38/34	(51) C22C 19/00	B22F 1/00
C22C 38/60	C22C 19/03	(11) EP3692180
C21D 1/76	C22C 19/07	(21) EP18864586.5
C21D 6/00	C22F 1/10	(47) 12.07.2023
C23C 2/40	(11) EP3708687	(87) SE2018051019 11.04.2019
C23C 8/40	(21) EP20161706.5	(22) 04.10.2018
H01F 1/147	(47) 12.07.2023	(54) STAINLESS STEEL, A PREALLOYED POWDER OBTAINED BY ATOMIZING THE STEEL AND USE OF THE PREALLOYED POWDER
(11) EP3770282	(22) 09.03.2020	(73) Uddeholms AB
(21) EP19771282.1	(54) THERMALLY STABILIZED NICKEL- COBALT MATERIALS AND METHODS OF THERMALLY STABILIZING THE SAME	(72) BRÄNNBACKA, Magnus SJÖQVIST PERSSON, Eva TIDESTEN, Magnus
(47) 12.07.2023	(73) Unison Industries, LLC	(31) 1751230
(87) JP2019011489 26.09.2019	(72) PHELPS, Emily Marie JONNALAGADDA, Guru Venkata Dattu	(32) 05.10.2017
(22) 19.03.2019	SCHMITT, Joseph Richard	(33) Sweden
(54) METHOD FOR MANUFACTURING GRAIN-ORIENTED ELECTRICAL STEEL SHEET AND GRAIN-ORIENTED ELECTRICAL STEEL SHEET	DVORAK, Ashley Rose	(51) C23C 2/06
(73) NIPPON STEEL CORPORATION	TAJIRI, Gordon	C21D 9/46
(72) ATSUMI, Haruhiko FUKUTANI, Kazuhiko MORISHIGE, Nobusato KUBOTA, Masamitsu MAYUMI, Yasuhiro KATAOKA, Takashi TAKECHI, Toshiya MASUMITSU, Naoto HAMAMURA, Hideyuki SUENAGA, Tomoya	SHIPLEY, Gary Stephen KRISHNAN, Lakshmi	C25D 11/02
(31) 2018052899	(31) 202016794438	C22C 38/00
(32) 20.03.2018	201962818270 P	(11) EP3749793
(33) Japan	(32) 19.02.2020	(21) EP19703657.7
(51) C22B 3/04	14.03.2019	(47) 12.07.2023
C22B 3/06	(33) United States of America United States of America	(87) EP2019052191 15.08.2019
C22B 11/00	(51) C22C 38/22	(22) 30.01.2019
C25C 1/20	C22C 38/04	(54) METHOD FOR PRODUCING A STEEL STRIP WITH IMPROVED BONDING OF METALLIC HOT-DIP COATINGS
	C22C 38/26	(73) Salzgitter Flachstahl GmbH
	C22C 38/28	(72) KÖPPER, Nils DEBEAUX, Marc
	C22C 38/32	(31) 102018102624

(32) 06.02.2018	(32) 29.03.2018	(73) AB Sandvik Coromant
(33) Germany	(33) Germany	(72) SLAIWA, Warka
(51) C23C 2/26	(51) C23C 14/34	YUSSEFIAN, Nima, Zarif
C23C 2/06	C23C 14/06	PAULSRUD, Gabriel
C23C 2/40	H01J 37/32	(31) 19194612
B21B 1/22	C23C 14/35	(32) 30.08.2019
C21D 8/02	H01J 37/34	(33) European Patent Office (EPO)
B21B 27/00	(11) EP3983571	(51) C25B 1/04
B32B 15/01	(21) EP20737235.0	C25B 9/17
C22C 18/00	(47) 12.07.2023	C25B 11/02
C22C 18/04	(87) FR2020050801	C25B 9/60
C21D 7/04	17.12.2020	C25B 9/63
C21D 9/48	(22) 14.05.2020	C25B 11/042
(11) EP4038216	(54) METHOD FOR COATING A	(11) EP3981897
(21) EP20780137.4	SUBSTRATE WITH TANTALUM	(21) EP21201249.6
(47) 12.07.2023	NITRIDE	(47) 12.07.2023
(87) EP2020076422	(73) SAFRAN	(22) 06.10.2021
08.04.2021	Centre national de la recherche	(54) ELECTROLYSER FOR THE
(22) 22.09.2020	scientifique	PRODUCTION OF ELECTROLYTIC
(54) SHEET STEEL HAVING A	UNIVERSITE DE BORDEAUX	HYDROGEN
DETERMINISTIC SURFACE	(72) TEULE-GAY, Lionel	(73) Geidoc S.r.l.
STRUCTURE	CAVARROC, Marjorie, Christine	(72) CANCELLIERI, Franco
(73) ThyssenKrupp Steel Europe AG	POULON, Angélique	(31) 202000023512
(72) CETINKAYA, Burak William	GIROIRE, Baptiste, Simon	(32) 06.10.2020
JUNGE, Fabian	(31) 1906168	(33) Italy
MÜLLER, Gregor	(32) 11.06.2019	(51) C25B 1/23
(31) 102019215051	(33) France	C25B 15/00
(32) 30.09.2019	(51) C23C 22/00	C25B 15/08
(33) Germany	C23C 22/73	C10G 2/00
(51) C23C 8/06	C23C 22/78	C10K 3/02
C21D 9/00	C23C 22/62	C25B 1/04
C23C 8/26	C23C 22/07	(11) EP3372708
C21D 9/32	C23G 3/00	(21) EP17189373.8
C21D 1/06	F16C 33/64	(47) 12.07.2023
C21D 1/34	(11) EP3625378	(22) 05.09.2017
C21D 1/74	(21) EP18729862.5	(54) CHEMICAL REACTION SYSTEM
(11) EP3260571	(47) 12.07.2023	(73) KABUSHIKI KAISHA TOSHIBA
(21) EP17175808.9	(87) DE2018100446	(72) Mikoshiba, Satoshi
(47) 12.07.2023	22.11.2018	Motoshige, Asahi
(22) 13.06.2017	(22) 09.05.2018	Sugano, Yoshitsune
(54) SURFACE TREATMENT METHOD AND	(54) METHOD FOR THE SURFACE	Ono, Akihiko
SURFACE TREATMENT DEVICE	MODIFICATION OF AT LEAST ONE	(31) 2017046000
(73) Toyota Jidosha Kabushiki Kaisha	COMPONENT AND REACTOR DEVICE	(32) 10.03.2017
(72) YAMANISHI, Kazuomi	FOR CARRYING OUT THE METHOD	(33) Japan
YAMAMOTO, Izuru	(73) Schaeffler Technologies AG & Co. KG	(51) C25D 5/08
INOUE, Hiroyuki	(72) PODGAYNY, Nikolay	C25D 17/12
HIRAMATSU, Shinnichi	JAKOB, Christian	C25D 17/00
(31) 2016121911	HAAG, Bertram	C25D 21/10
(32) 20.06.2016	WELZER, Bernd	C25D 21/12
(33) Japan	(31) 102017112736	(11) EP4006210
(51) C23C 14/04	102017110680	(21) EP20210367.7
C23C 14/50	(32) 09.06.2017	(47) 12.07.2023
C23C 14/32	17.05.2017	(22) 27.11.2020
F01D 5/28	(33) Germany	(54) DISTRIBUTION SYSTEM FOR A
F01D 25/28	Germany	PROCESS FLUID AND AN ELECTRIC
(11) EP3775314	(51) C23C 30/00	CURRENT FOR ELECTROLYTIC
(21) EP19714658.2	C23C 28/04	SURFACE TREATMENT OF A
(47) 12.07.2023	C23C 14/58	SUBSTRATE
(87) EP2019058087	C23C 16/56	(73) Semsysco GmbH
03.10.2019	C23C 16/34	(72) GLEISSNER, Andreas
(22) 29.03.2019	(11) EP4022110	ÖTZLINGER, Herbert
(54) DEVICE AND METHOD FOR	(21) EP20760866.2	(51) C30B 11/00
SELECTIVE VAPOR COATING OF A	(47) 12.07.2023	C30B 29/06
SUBSTRATE	(87) EP2020073911	(11) EP3114259
(73) Oerlikon Surface Solutions AG, Pfäffikon	04.03.2021	(21) EP15708218.1
(72) MEILER, Rudolf	(22) 27.08.2020	(47) 12.07.2023
BOURQUAIN, Christoph	(54) A METHOD OF TREATING A COATED	(87) EP2015054762
(31) 102018107606	CUTTING TOOL	11.09.2015

(22) 06.03.2015	(54) METHOD FOR PREPARING A	(47) 12.07.2023
(54) HYBRID CRUCIBLE FOR	LYOCELL MATERIAL FOR TOBACCO	(22) 10.09.2012
CRYSTALLIZING MATERIALS	FILTER	(54) METHOD FOR THE MANUFACTURE
(73) ALD Vacuum Technologies GmbH	(73) KT & G Corporation	OF FIBROUS YARN
(72) WENGERTER, Armin	Kolon Industries, Inc.	(73) Spinnova Oy
FRANZ, Henrik	(72) KIM, Jong Yeol	(72) SALMELA, Juha
HOHMANN, Michael	SEO, Man Seok	KIISKINEN, Harri
ZIMMERMANN, Andreas	JIN, Sang Woo	OKSANEN, Antti
MÜLLER, Kai	JEONG, Jong Cheol	(31) 20115882
MORCHE, Christoph	CHO, Hyun Suk	(32) 08.09.2011
(31) 102014102980	KIM, Woo Chul	(33) Finland
(32) 06.03.2014	LEE, Kyung Joon	(51) D03C 3/06
(33) Germany	YANG, Burm Ho	D03C 3/36
(51) C30B 15/30	(31) 20130075002	D03C 3/32
C30B 29/06	(32) 28.06.2013	(11) EP3719187
(11) EP3953504	(33) Korea (Republic)	(21) EP20166942.1
(21) EP20722790.1	(51) D01D 5/00	(47) 12.07.2023
(47) 12.07.2023	B32B 3/26	(22) 31.03.2020
(87) US2020026684	B32B 7/04	(54) DEVICE FOR FORMING A SHED AND
15.10.2020	B32B 7/06	JACQUARD LOOM EQUIPPED WITH
(22) 03.04.2020	B32B 7/12	SUCH A DEVICE
(54) PROCESS FOR PREPARING INGOT	B32B 9/04	(73) STAUBLI LYON
HAVING REDUCED DISTORTION AT	B32B 27/08	(72) BUCHET, Baptiste
LATE BODY LENGTH	B32B 27/12	PRZYTARSKI, Patrice
(73) GlobalWafers Co., Ltd.	B32B 27/28	(31) 1903572
(72) BHAGAVAT, Sumeet S.	B32B 27/30	(32) 03.04.2019
TSAI, Feng-Chien	B32B 27/32	(33) France
HUANG, Hong-Huei	B32B 27/36	(51) D03D 1/00
JAIN, Tapas	B32B 27/40	D03D 11/00
LU, Zheng	(11) EP3507396	D03D 25/00
(31) 201962832561 P	(21) EP17777313.2	B29B 11/16
(32) 11.04.2019	(47) 12.07.2023	D03D 15/267
(33) United States of America	(87) GB2017052530	(11) EP3827118
(51) C30B 15/30	08.03.2018	(21) EP19753172.6
C30B 29/06	(22) 31.08.2017	(47) 12.07.2023
C30B 30/04	(54) METHOD AND APPARATUS FOR	(87) FR2019051806
(11) EP4025726	FABRICATING A FIBRE ARRAY AND	30.01.2020
(21) EP20751546.1	STRUCTURE INCORPORATING A	(22) 18.07.2019
(47) 12.07.2023	FIBRE ARRAY	(54) FIBER TEXTURE FOR A CASING
(87) EP2020072014	(73) Nottingham Trent University	MADE OF COMPOSITE MATERIAL
11.03.2021	(72) CHEMMARAPPALLY, Joseph	WITH IMPROVED SHEAR
(22) 05.08.2020	STEVENS, Robert	RESISTANCE
(54) METHOD FOR PRODUCING	(31) 201614778	(73) SAFRAN
SEMICONDUCTOR WAFERS FROM	(32) 01.09.2016	SAFRAN AIRCRAFT ENGINES
MONOCRYSTALLINE SILICON	(33) United Kingdom	(72) COUPE, Dominique, Marie, Christian
(73) Siltronic AG	(51) D02G 1/16	CHARLEUX, François
(72) MANGELBERGER, Karl	D02J 1/08	GRELIN, Hervé
VETTERHÖFFER, Jürgen	(11) EP3103904	(31) 1856795
HEUWIESER, Walter	(21) EP15815740.4	(32) 23.07.2018
(31) 102019213236	(47) 12.07.2023	(33) France
(32) 02.09.2019	(87) JP2015065053	(51) D03D 1/02
(33) Germany	07.01.2016	D02G 3/44
(51) D01D 1/02	(22) 26.05.2015	D03D 15/00
A24D 3/10	(54) MANUFACTURING METHOD OF A	D01D 5/092
A24D 3/02	DOWN-LIKE FIBERFILL MATERIAL	(11) EP3524718
B29C 48/00	(73) ZHEJIANG EIDER WARTH NEW	(21) EP19166560.3
D01F 2/00	MATERIAL CO., LTD	(47) 12.07.2023
D01D 5/06	(72) HIRAKAWA Shoichi	(22) 20.01.2009
D02G 1/12	(31) 2014240547	(54) RAW YARN FOR AIR BAG, AND
A24D 3/06	2014134720	METHOD FOR PRODUCE OF THE
(11) EP3015579	(32) 27.11.2014	RAW YARN
(21) EP14817842.9	30.06.2014	(73) Toray Industries, Inc.
(47) 12.07.2023	(33) Japan	(72) OZAWA, Hiroaki
(87) KR2014004881	Japan	YOKOI, Daisuke
31.12.2014	(51) D02G 3/02	HORIGUCHI, Hiroataka
(22) 02.06.2014	D21F 11/16	(31) 2008059831
	(11) EP3162931	(32) 10.03.2008
	(21) EP16186214.9	(33) Japan

(51) D03J 1/14	(73) Slashter OY	TOBIESON, Gustaf
(11) EP3772549	Orneule OY	BERNREITNER, Klaus
(21) EP19190024.0	(72) UOTILA, Jyrki	(51) D04H 3/013
(47) 12.07.2023	NIEMINEN, Toni	D04H 3/02
(22) 05.08.2019	UOTILA, Timo	D01D 5/06
(54) DRAWING-IN GRIPPER, DRAWING- IN MACHINE INCLUDING SUCH A GRIPPER AND PROCESS FOR DRAWING-IN WARP YARNS ON SUCH A DRAWING-IN MACHINE	(31) 20165951	D01D 7/00
(73) Stäubli Sargans AG	(32) 09.12.2016	D01F 2/00
(72) ROMAGNA, Hanspeter	(33) Finland	(11) EP3824128
FROMMELT, Igor	(51) D04C 3/18	(21) EP19739307.7
(51) D04B 1/10	D04C 3/20	(47) 12.07.2023
A41C 3/00	D04C 3/30	(87) EP2019069239
D04B 1/24	(11) EP3985152	23.01.2020
(11) EP3861158	(21) EP19759630.7	(22) 17.07.2019
(21) EP19783829.5	(47) 12.07.2023	(54) METHOD AND APPARATUS FOR RECOVERING SOLVENT FROM PROCESS AIR DURING THE PRODUCTION OF A SPUNBOND
(47) 12.07.2023	(87) ES2019070418	(73) Lenzing Aktiengesellschaft
(87) US2019052592	17.12.2020	(72) SAGERER-FORIC, Ibrahim
09.04.2020	(22) 14.06.2019	(31) 18183887
(22) 24.09.2019	(54) BRAIDING MACHINE	(32) 17.07.2018
(54) UPPER-TORSO GARMENT WITH THREE-DIMENSIONAL KNIT STRUCTURES	(73) TALLERES RATERA, SA	(33) European Patent Office (EPO)
(73) NIKE Innovate C.V.	(72) RATERA FRANCI TORRA, Josep	(51) D04H 18/02
(72) BURTON, Jesse	(51) D04H 1/26	(11) EP3901348
MECKLEY, Virginia	B29C 51/20	(21) EP21169004.5
WOODARD, Samantha E.G.	B31F 1/00	(47) 12.07.2023
LUCAS GAUS, Vanessa L.	D04H 1/425	(22) 16.04.2021
MONTGOMERY, Paul R.	D04H 1/732	(54) ELLIPTIC NEEDLE LOOM WITH SEALED HOUSING AND BOX FOR GUIDING THE CROSSMEMBER
RENDONE, Nicole	D21H 17/17	(73) Andritz Asselin-Thibeau
(31) 201916576244	D21H 19/00	(72) POTDEVIN, Eric
201862740613 P	D21H 21/16	LAUNE, Jean-Christophe
(32) 19.09.2019	D21H 27/10	DEMANGE, Frédéric
03.10.2018	D21H 27/42	(31) 2004058
(33) United States of America	(11) EP3994304	(32) 23.04.2020
United States of America	(21) EP20735535.5	(33) France
(51) D04B 1/10	(47) 12.07.2023	(51) D04H 18/02
D04B 1/26	(87) EP2020068039	(11) EP3901349
D04B 1/28	07.01.2021	(21) EP21169008.6
(11) EP3875651	(22) 26.06.2020	(47) 12.07.2023
(21) EP21159834.7	(54) A METHOD FOR PRODUCING A CELLULOSE PRODUCT AND A CELLULOSE PRODUCT	(22) 16.04.2021
(47) 12.07.2023	(73) PulPac AB	(54) DEVICE FOR CONTROLLING THE MOVEMENT OF THE NEEDLES OF A NEEDLE LOOM, IN PARTICULAR AN ELLIPTIC NEEDLE LOOM, AND NEEDLE LOOM COMPRISING SUCH A DEVICE
(22) 01.03.2021	(72) JABBARI, Mostafa	(73) Andritz Asselin-Thibeau
(54) KNITTED SEMI-FINISHED PRODUCT FOR MANUFACTURING STOCKINGS, FOOTWEAR AND GLOVES AND PROCESS FOR THE ATTAINMENT THEREOF	GUIDOTTI, Edward	(72) DEMANGE, Frédéric
(73) Altexa Srl	(31) 1950832	(31) 2004062
MACPI S.p.A. PRESSING DIVISION	(32) 02.07.2019	(32) 23.04.2020
(72) MORLACCHI, Matteo	(33) Sweden	(33) France
LANCINI, Paolo	(51) D04H 3/007	(51) D06B 11/00
(31) 202000004468	D04H 3/16	D03D 1/00
(32) 03.03.2020	B01D 39/16	G09F 3/00
(33) Italy	D01F 1/10	D03D 13/00
(51) D04B 1/18	D04H 1/56	B41F 16/02
D04B 1/24	D01F 6/06	B41F 16/00
(11) EP3551793	C08K 5/3435	B41F 33/00
(21) EP17836038.4	D01D 5/098	(11) EP3851566
(47) 12.07.2023	(11) EP4032598	(21) EP21151569.7
(87) FI2017050873	(21) EP21152814.6	(47) 12.07.2023
14.06.2018	(47) 12.07.2023	(22) 14.01.2021
(22) 11.12.2017	(22) 21.01.2021	(54) SYSTEM AND METHOD FOR COLORED WOVEN LABEL FABRICATION
(54) METHOD FOR MANUFACTURING A CUT RESISTANT FABRIC AND A CUT RESISTANT FABRIC	(54) POLYPROPYLENE COMPOSITION CONTAINING A NEW CHARGE- STABILIZING AGENT FOR ELECTRET MELT BLOWN WEBS	(73) Pai, Fu-Hua
	(73) Borealis AG	
	(72) SARS, Wilhelmus	
	GAHLEITNER, Markus	
	LESKINEN, Pauli	
	FIEBIG, Joachim	
	VAN PARIDON, Henk	
	WANG, Jingbo	

(72) WEI, Hong-Ming	(54) LAUNDRY WASHING APPLIANCE	(21) EP21150835.3
(31) 202010050163	(73) Electrolux Home Products Corporation N.V.	(47) 12.07.2023
(32) 17.01.2020		(22) 11.01.2021
(33) China	(72) FILIPPETTI, Mario	(54) MOTOR HOLDING DEVICE FOR A MOTOR OF A DOMESTIC APPLIANCE
(51) D06F 33/60	STABON, Elisa	(73) Miele & Cie. KG
D06F 103/04	DEL POS, Maurizio	(72) Zajak, Martin Michael
D06F 103/08	ZATTIN, Andrea	Müller, Michael
D06F 103/10	(51) D06F 39/02	(31) 102020102864
D06F 105/02	D06F 39/08	(32) 05.02.2020
D06F 105/28	D06F 37/26	(33) Germany
D06F 105/48	(11) EP3795734	(51) D06F 58/16
D06F 105/08	(21) EP20190850.6	D06F 57/00
D06F 33/40	(47) 12.07.2023	D06F 34/05
D06F 105/12	(22) 13.08.2020	D06F 34/18
D06F 25/00	(54) WASHING MACHINE	(11) EP3619353
(11) EP3798347	(73) Candy S.p.A.	(21) EP18720582.8
(21) EP20197938.2	(72) BOSSI, Mauro	(47) 12.07.2023
(47) 12.07.2023	DE NOIA, Eros	(87) EP2018060582
(22) 23.09.2020	MALACRIDA, Alessandro	08.11.2018
(54) A METHOD OF EXTRACTING LIQUID FROM A LAUNDRY LOAD	(31) 201900016712	(22) 25.04.2018
(73) Whirlpool Corporation	(32) 19.09.2019	(54) SYSTEM FOR MONITORING A DRYING PROMOCES AND METHOD FOR THE OPERATION THEREOF
(72) Vaive, Nicholas B.	(33) Italy	(73) BSH Hausgeräte GmbH
(31) 201916586060	(51) D06F 39/10	(72) DEININGER, Martina
(32) 27.09.2019	B01D 33/00	(31) 102017207324
(33) United States of America	B01D 29/11	(32) 02.05.2017
(51) D06F 34/18	B01D 29/58	(33) Germany
D06F 58/20	B01D 35/147	(51) D06F 58/20
D06F 25/00	D06F 34/14	D06F 58/26
D06F 39/02	D06F 34/20	D06F 58/34
D06F 103/08	D06F 103/42	D06F 103/32
(11) EP3794175	D06F 105/58	D06F 103/50
(21) EP19720857.2	(11) EP4015699	D06F 103/58
(47) 12.07.2023	(21) EP21212990.2	D06F 105/26
(87) EP2019060952	(47) 12.07.2023	D06F 105/28
21.11.2019	(22) 07.12.2021	(11) EP3533921
(22) 29.04.2019	(54) FILTER FOR WASHING MACHINE PROVIDED WITH A BYPASS VALVE AND USE OF A FILTERING ELEMENT WITH SAID VALVE	(21) EP19157626.3
(54) A BEARER FOR DETECTING DRYNESS TO BE USED IN A WASHER/ DRYER OPERATING IN INTERACTION WITH SAID BEARER	(73) SOGELI FILTRATION	(47) 12.07.2023
(73) Arçelik Anonim Sirketi	(72) SANET, Fabien	(22) 18.02.2019
(72) KARTAL, Resul	(31) 2013246	(54) HOUSEHOLD APPLIANCE COMPRISING HEATER AND HEAT PUMP
CERAN, Kadir	(32) 15.12.2020	(73) BSH Hausgeräte GmbH
HASANREISOGLU, Ali Levent	(33) France	(72) Ruiz Bermejo, Jose Antonio
GUNDUZ, Nihat	(51) D06F 58/04	(31) 201830208
BENGU, Basak	D06F 58/24	(32) 02.03.2018
(31) 201806966	D06F 25/00	(33) Spain
(32) 17.05.2018	D06F 39/08	(51) D06F 58/24
(33) Türkiye	(11) EP3847305	D06F 58/20
(51) D06F 39/02	(21) EP19858146.4	(11) EP3775359
(11) EP2597191	(47) 12.07.2023	(21) EP19708999.8
(21) EP12401235.2	(87) TR2019050374	(47) 12.07.2023
(47) 12.07.2023	12.03.2020	(87) EP2019054942
(22) 21.11.2012	(22) 24.05.2019	10.10.2019
(54) System with a rinsing unit of a washing machine and a capsule holder	(54) A LAUNDRY WASHING AND DRYING MACHINE COMPRISING A WATER-COOLED CONDENSER	(22) 28.02.2019
(73) Miele & Cie. KG	(73) Arçelik Anonim Sirketi	(54) A LAUNDRY DRYER WITH HEAT PUMP
(72) Wiens, Viktor	(72) AYAS, Recep	(73) Arçelik Anonim Sirketi
Witte, Olaf	GERMIYANLIOGLU, Caner	(72) ATILA, Meryem
(31) 11401639	OZERK, Kagan	ABDIK, Bora
(32) 22.11.2011	TOP, Ahmet Burak	ARSLAN, Ergin
(33) European Patent Office (EPO)	(31) 201812893	TASTAN, Dogan
(51) D06F 39/02	(32) 07.09.2018	(31) 201804587
(11) EP3460120	(33) Türkiye	(32) 02.04.2018
(21) EP18199776.8	(51) D06F 58/08	(33) Türkiye
(47) 12.07.2023	D06F 37/20	(51) D06F 58/24
(22) 11.05.2009	(11) EP3862480	D06F 58/30

D06F 58/38	(51) D07B 1/02	D21H 21/20
D06F 103/08	(11) EP3783149	(11) EP3350370
(11) EP3887592	(21) EP19382716.9	(21) EP16770092.1
(21) EP19797716.8	(47) 12.07.2023	(47) 12.07.2023
(47) 12.07.2023	(22) 19.08.2019	(87) IB2016055532
(87) EP2019079975	(54) METHOD FOR MANUFACTURING	23.03.2017
04.06.2020	A FIBROUS ROPE, AND	(22) 16.09.2016
(22) 01.11.2019	CORRESPONDING FIBROUS ROPE	(54) A METHOD FOR PRODUCING A
(54) A LAUNDRY DRYER WITH A WATER-	(73) Intermas Nets, S.A.	FILM HAVING GOOD BARRIER
COOLED CONDENSER	(72) MOUCHET, François	PROPERTIES
(73) Arçelik Anonim Şirketi	(51) D21B 1/02	(73) Stora Enso Oyj
(72) HOCAOGLU, Samet	D21B 1/06	(72) LYYTIKÄINEN, Katja
IPEK, Mutlu	D21B 1/12	RUOHONIEMI, Nina
ERTIS, Vasi Kadir	(11) EP3194651	BACKFOLK, Kaj
(31) 201818083	(21) EP15788200.2	SAUKKONEN, Esa
(32) 28.11.2018	(47) 12.07.2023	HEISKANEN, Isto
(33) Türkiye	(87) IB2015057204	(31) 1551194
(51) D06F 75/10	24.03.2016	(32) 17.09.2015
D06F 75/12	(22) 18.09.2015	(33) Sweden
(11) EP4073313	(54) METHOD AND PLANT FOR PRE-	(51) D21H 13/28
(21) EP20820233.3	TREATING BIOMASSES	D21H 13/00
(47) 12.07.2023	(73) ENTSORGAFIN SpA	D21H 13/34
(87) EP2020085867	(72) CELLA MAZZARIOL, Pietro Paolo	(11) EP3135810
17.06.2021	GALANZINO, Gian Francesco	(21) EP16186411.1
(22) 12.12.2020	(31) TO20140741	(47) 12.07.2023
(54) SAFETY SYSTEM FOR A GARMENT	(32) 19.09.2014	(2) 30.08.2016
CARE DEVICE COMPRISING A	(33) Italy	(54) PAPER MATERIAL COMPRISING
STEAM GENERATOR AND AN	(51) D21F 1/66	CELLULOSE FIBERS AND LEATHER
OPENING ARRANGED IN SAID STEAM	D21D 5/26	FIBERS AND PROCESS FOR THE
GENERATOR	(11) EP3303692	PRODUCTION THEREOF
(73) Koninklijke Philips N.V.	(21) EP16725529.8	(73) Favini S.r.l.
(72) LIM, Yu Xuan	(47) 12.07.2023	(72) STRAGLIOTTO, Flavio
YUAN, Ding	(87) EP2016061936	PRUSCINI, Giovanni
TAN, Kit Hai	01.12.2016	MONEGATO, Achille
CHEN, Sen Kee	(22) 26.05.2016	BERNO, Giacomo
(31) 19215484	(54) APPARATUS AND METHOD FOR	DAL BIANCO, Maurizio
(32) 12.12.2019	PROCESSING WHITE WATER IN A	(31) UB20153307
(33) European Patent Office (EPO)	PAPER MACHINE	(32) 31.08.2015
(51) D06F 75/12	(73) Valmet Aktiebolag	(33) Italy
D06F 75/14	(72) ENGQVIST, Elin	(51) D21H 27/30
(11) EP4006227	VIDEGREN, Leif	D21H 27/40
(21) EP21203477.1	(31) 1550683	D21J 3/00
(47) 12.07.2023	1550682	B32B 3/28
(22) 19.10.2021	(32) 27.05.2015	(11) EP3854939
(54) STEAM IRON AND METHOD FOR ITS	27.05.2015	(21) EP21152526.6
OPERATION	(33) Sweden	(47) 12.07.2023
(73) Miele & Cie. KG	Sweden	(22) 20.01.2021
(72) Mirshekari, Behnam	(51) D21F 7/00	(54) ACCOMMODATING BODY,
Taphorn, Bernd	D21G 9/00	BUFFERING MATERIAL, METHOD
(31) 102020131329	D21F 11/14	FOR MANUFACTURING BUFFERING
(32) 26.11.2020	D21G 5/00	MATERIAL, AND BUFFERING
(33) Germany	(11) EP2914771	MATERIAL MANUFACTURING
(51) D06F 95/00	(21) EP13850945.0	APPARATUS
D06F 58/12	(47) 12.07.2023	(73) Seiko Epson Corporation
D06F 58/20	(87) FI2013051018	(72) TAKANO, Hidehiro
(11) EP3947806	08.05.2014	OTA, Tsukasa
(21) EP20723192.9	(22) 28.10.2013	YOSHIOKA, Satomi
(47) 12.07.2023	(54) METHOD AND APPARATUS FOR	(31) 2020007409
(87) IB2020053085	MONITORING WEB	2020007405
08.10.2020	(73) Valmet Automation Oy	(32) 21.01.2020
(22) 01.04.2020	(72) KALANIEMI, Hannes	21.01.2020
(54) AUTOMATIC PERFUMING STATION	(31) 20126135	(33) Japan
FOR INDUSTRIAL LAUNDRY	(32) 31.10.2012	Japan
(73) Welcome S.p.A.	(33) Finland	(51) E01C 13/08
(72) LUCIANI, Lucio	(51) D21H 11/18	(11) EP3947818
(31) 201900004853	B29D 7/01	(21) EP20721122.8
(32) 01.04.2019	B65D 65/46	(47) 12.07.2023
(33) Italy	C08J 5/18	(87) IT2020050083

08.10.2020	(54) GUARDRAIL CRASH ABSORBING ASSEMBLY	22.08.2019
(22) 01.04.2020	(73) Lindsay Transportation Solutions, LLC	(22) 23.01.2019
(54) ARTIFICIAL TURF AND METHOD FOR PRODUCING IT	(72) MORALES FLORES, Alvaro E.	(54) SHEAR KEY FORMER APPARATUS AND METHOD(S)
(73) Radici Pietro Industries & Brands S.p.A.	THOMPSON, Jeffrey M.	(73) CCMJ SYSTEMS LTD
(72) RADICI, Marco Antonio	ANGHILERI, Marco	(72) COUPLAND, John
(31) 201900005068	LIM, Jason T.	(31) 201802477
(32) 04.04.2019	DECAYANAN LOYA, Daniel Paul	(32) 15.02.2018
(33) Italy	DYKE, Gerrit A.	(33) United Kingdom
(51) E01C 23/088	KROEKER, Scott G.	(51) E02D 29/12
E01C 23/12	(31) 201715420748	(11) EP3919685
E01H 1/05	(32) 31.01.2017	(21) EP21172433.1
E01H 1/08	(33) United States of America	(47) 12.07.2023
B08B 1/00	(51) E01H 1/12	(22) 06.05.2021
B08B 1/04	(11) EP3783153	(54) MANHOLE
E02F 3/18	(21) EP20192176.4	(73) Langmatz GmbH
E02F 3/96	(47) 12.07.2023	(31) 102020003345
(11) EP3916157	(22) 21.08.2020	(32) 03.06.2020
(21) EP21275031.9	(54) DEVICE FOR HOLDING EXCREMENT	(33) Germany
(47) 12.07.2023	(73) Hornbogen, Falk	(51) E02F 3/36
(22) 18.03.2021	(72) Hornbogen, Falk	(11) EP3052707
(54) WORKING MACHINES AND METHOD OF REMOVING MATERIAL FROM A SURFACE TO BE REPAIRED USING SUCH WORKING MACHINE	(31) 102020108227	(21) EP14792403.9
(73) J.C. Bamford Excavators Limited	102019006021	(47) 12.07.2023
(72) Naylor, Patrick	(32) 25.03.2020	(87) EP2014070971
Smith, Duncan	23.08.2019	09.04.2015
(31) 202014522	(33) Germany	(22) 30.09.2014
202004208	Germany	(54) A COUPLER DEVICE
(32) 15.09.2020	(51) E01H 11/00	(73) Oriel Attachments Limited
23.03.2020	A01M 21/04	(72) DE COURCEY, Thomas Martin
(33) United Kingdom	(11) EP3794182	CUNNINGHAM, Bartholomew James
United Kingdom	(21) EP19720643.6	(31) 201317354
(51) E01D 19/00	(47) 12.07.2023	(32) 01.10.2013
E01D 19/10	(87) EP2019061206	(33) United Kingdom
E01D 22/00	21.11.2019	(51) E02F 3/36
(11) EP3851585	(22) 02.05.2019	(11) EP3770330
(21) EP20211916.0	(54) A RAILWAY WEED CONTROL VEHICLE	(21) EP19020445.3
(47) 12.07.2023	(73) Bayer Aktiengesellschaft	(47) 12.07.2023
(22) 04.12.2020	(72) GIRAUD, Virginie	(22) 25.07.2019
(54) PRESTRESSED CANTILEVER INCLUDING FIXING MODULE	HADLOW, James	(54) QUICK CHANGER
(73) INOS Co., Ltd.	JIMENEZ TARODO, Sergio	(73) Rädlinger Maschinen- und Stahlbau GmbH
(72) LIM, Cheol Hwan	ARIANS, Thomas	(72) KÖPPL, Alois
(31) 20200005080	KILIAN, Michael	BOGNER, Thomas
(32) 15.01.2020	(31) 18172063	HIRMER, Reinhold
(33) Korea (Republic)	(32) 14.05.2018	WITTMANN, Michael
(51) E01F 9/692	(33) European Patent Office (EPO)	(51) E02F 3/36
E01F 13/12	(51) E02B 17/04	(11) EP4060124
E01F 9/688	E02D 27/42	(21) EP22162079.2
(11) EP3800293	F03D 13/25	(47) 12.07.2023
(21) EP19201014.8	(11) EP3695056	(22) 15.03.2022
(47) 12.07.2023	(21) EP18795310.4	(54) ASSEMBLY FOR SECURE COUPLING OF A TOOL FOR A WORK ARM OF A PUBLIC WORKS VEHICLE WITH IMPROVED OPERATION
(22) 02.10.2019	(47) 12.07.2023	(73) ACB Pume
(54) BARRIER	(87) EP2018077946	(72) CINQUIN, Didier
(73) Olcon Engineering AB	18.04.2019	RATNIK, Remi
(72) Eric, Olsson	(22) 12.10.2018	SIEFFERT, René
Olsson, Jonny	(54) GASKET	(31) 2102745
(51) E01F 15/02	(73) Rosen Swiss AG	(32) 18.03.2021
E01F 15/04	(72) KRÜMPEL, Hanna	(33) France
E01F 15/14	LARINK, Dirk	(51) E02F 3/40
(11) EP3577276	LINDNER, Alexander	E02F 5/32
(21) EP17895037.4	(31) 102017123935	E04G 23/08
(47) 12.07.2023	(32) 13.10.2017	B25D 17/00
(87) US2017058955	(33) Germany	(11) EP3786370
09.08.2018	(51) E02D 5/18	(21) EP20191359.7
(22) 30.10.2017	E02D 29/16	
	(11) EP3752679	
	(21) EP19704669.1	
	(47) 12.07.2023	
	(87) GB2019050195	

(47) 12.07.2023	E02F 5/28	(54) SHOVEL AND CONTROL METHOD
(22) 17.08.2020	E02F 9/00	FOR SAME
(54) VIBRATING APPARATUS FOR	E03F 9/00	(73) Sumitomo Heavy Industries, Ltd.
EXCAVATION AND/OR DEMOLITION	B08B 9/043	(72) OKADA, Junichi
(73) SOCOMEC - Società Costruzioni	(11) EP3943671	(31) 2015247017
Meccaniche Società per Azioni	(21) EP21187029.0	(32) 18.12.2015
(72) GAZZA, Fabio Maria	(47) 12.07.2023	(33) Japan
(31) 201900015114	(22) 21.07.2021	(51) E02F 9/20
(32) 28.08.2019	(54) METHOD AND SYSTEM OF	E02F 9/22
(33) Italy	DREDGING OF AN UNDERGROUND	F15B 11/02
(51) E02F 3/43	CONDUIT	(11) EP3951092
E02F 9/12	(73) Trattamenti Ecologici Doria Srl	(21) EP20784662.7
E02F 9/20	(72) DORIA, Roberto	(47) 12.07.2023
(11) EP3535458	DORIA, Paolo Pacifico	(87) JP2020014312
(21) EP17842303.4	(31) 202000017962	08.10.2020
(47) 12.07.2023	(32) 24.07.2020	(22) 27.03.2020
(87) US2017059736	(33) Italy	(54) EXCAVATOR
11.05.2018	(51) E02F 9/16	(73) Sumitomo Construction Machinery Co.,
(22) 02.11.2017	F16F 7/00	Ltd.
(54) SYSTEM AND METHOD FOR	E02F 9/08	(72) SHIRATANI, Ryuji
DEFINING A ZONE OF OPERATION	B60N 2/75	SANO, Kiminori
FOR A LIFT ARM	E02F 9/20	(31) 2019069171
(73) Clark Equipment Company	(11) EP3396073	(32) 29.03.2019
(72) GLASSER, David	(21) EP16878969.1	(33) Japan
ROEHL, Jonathan	(47) 12.07.2023	(51) E02F 9/20
(31) 201662416349 P	(87) JP2016088489	E02F 9/26
(32) 02.11.2016	29.06.2017	H04M 11/00
(33) United States of America	(22) 22.12.2016	H04Q 9/00
(51) E02F 3/76	(54) DEVICE FOR OPERATING	A61B 5/00
E02F 3/84	CONSTRUCTION MACHINE	G05D 1/00
E02F 9/00	(73) Hitachi Construction Machinery Co., Ltd.	G08C 17/02
E02F 3/96	(72) KAN, Satoshi	(11) EP3922775
(11) EP3699363	ISAKA, Wataru	(21) EP19921240.8
(21) EP20157642.8	(31) 2015253897	(47) 12.07.2023
(47) 12.07.2023	(32) 25.12.2015	(87) JP2019047071
(22) 17.02.2020	(33) Japan	01.10.2020
(54) CONSTRUCTION MACHINE EQUIPPED	(51) E02F 9/20	(22) 02.12.2019
WITH DOZER	(11) EP3670762	(54) REMOTE OPERATION SYSTEM AND
(73) KOBELCO CONSTRUCTION	(21) EP19212830.4	REMOTE OPERATION SERVER
MACHINERY CO., LTD.	(47) 12.07.2023	(73) KOBELCO CONSTRUCTION
(72) ISHIHAMA, Hiroyoshi	(22) 02.12.2019	MACHINERY CO., LTD.
TSUCHIHARA, Tatsuya	(54) OPERATING MECHANISM OF WORK	(72) OTANI Masaki
MAEDA, Satoko	VEHICLE	SASAKI Hitoshi
(31) 2019029631	(73) Kubota Corporation	YAMAZAKI Yoichiro
(32) 21.02.2019	(72) OSHITA, Masafumi	SAIKI Seiji
(33) Japan	YAMANAKA, Satoru	(31) 2019059760
(51) E02F 3/90	NOGAMI, Hironobu	(32) 27.03.2019
E02F 3/92	TOTTORI, Norita	(33) Japan
E02F 5/00	EZAKI, Hideaki	(51) E02F 9/22
E02F 5/28	NAKAMURA, Tadashi	F16L 3/223
E02F 9/26	(31) 2018238767	F16L 39/02
E02F 3/88	(32) 20.12.2018	F16L 3/12
E02F 9/06	(33) Japan	F16L 3/20
(11) EP3976890	(51) E02F 9/20	F16L 3/18
(21) EP20742889.7	E02F 9/22	(11) EP3798371
(47) 12.07.2023	E02F 3/30	(21) EP19199812.9
(87) IB2020054995	B60K 28/16	(47) 12.07.2023
10.12.2020	E02F 3/43	(22) 26.09.2019
(22) 27.05.2020	E02F 3/32	(54) HOSE CONNECTION SYSTEM
(54) SYSTEM FOR THE DREDGING OF	B60W 10/30	(73) Deere & Company
UNDERWATER SEA-BEDS	B60W 30/02	(72) Ketola, Ari-Pekka
(73) Mongiardino, Bartolomeo	B60W 30/18	Jokinen, Jarkko
(72) Mongiardino, Bartolomeo	(11) EP3392415	Suutari, Marko
(31) 201900007839	(21) EP16875223.6	(51) E02F 9/24
(32) 03.06.2019	(47) 12.07.2023	E02F 9/28
(33) Italy	(87) JP2016079835	(11) EP3874096
(51) E02F 3/90	22.06.2017	(21) EP19880052.6
E02F 3/92	(22) 06.10.2016	(47) 12.07.2023



(87) US2019059267 07.05.2020	(32) 16.05.2019	(32) 02.04.2020
(22) 31.10.2019	(33) Germany	(33) Germany
(54) WEAR ASSEMBLY	(51) E03B 3/02	(51) E03D 9/08
(73) ESCO Group LLC	E04D 13/08	(11) EP3995636
(72) HARDING, Darrin	(11) EP4012122	(21) EP20205663.6
BROCKMAN, Cornelius, J.	(21) EP21212456.4	(47) 12.07.2023
ROSKA, Michael, B.	(47) 12.07.2023	(22) 04.11.2020
BINGHAM, Bruce, C.	(22) 06.12.2021	(54) TOILET SHOWER SYSTEM WITH TELESCOPIC SHOWER ARM
BEATLEY, Mark, T.	(54) RAINWATER COLLECTOR FOR INSTALLATION ON A DOWNPIPE, COMPRISING A REMOVABLE BAILER	(73) Geberit International AG
(31) 201862753675 P	(73) Alux International Trading S.A.	(72) CODIROLI, Mattia
(32) 31.10.2018	(72) BABAZ, Michel	THALLER, Roman
(33) United States of America	(51) E03D 9/08	(51) E03D 9/08
(51) E02F 9/26	(11) EP3995637	(11) EP3995637
(11) EP3589790	(21) EP20205666.9	(21) EP20205666.9
(21) EP18711768.4	(47) 12.07.2023	(47) 12.07.2023
(47) 12.07.2023	(22) 04.11.2020	(22) 04.11.2020
(87) US2018020663	(54) TOILET SHOWER SYSTEM	(54) TOILET SHOWER SYSTEM
07.09.2018	(73) Geberit International AG	(73) Geberit International AG
(22) 02.03.2018	(72) CODIROLI, Mattia	(72) CODIROLI, Mattia
(54) SYSTEM AND METHOD FOR ESTIMATING IMPLEMENT LOAD WEIGHTS FOR A WORK VEHICLE	THALLER, Roman	THALLER, Roman
(73) CNH Industrial Belgium NV	(51) E03D 9/08	(51) E03D 9/08
(72) ZIMMERMAN, Joshua	(11) EP3933127	(11) EP3933127
MELCHINGER, Uli	(21) EP21151663.8	(21) EP21151663.8
(31) 201762466551 P	(47) 12.07.2023	(47) 12.07.2023
(32) 03.03.2017	(22) 14.01.2021	(22) 14.01.2021
(33) United States of America	(54) ELECTROLESS SHOWER-WC ATTACHMENT WITH SELF-CLEANING DEVICE AND A SELF-CLEANING METHOD FOR AN ELECTROLESS SHOWER-WC ATTACHMENT	(54) ELECTROLESS SHOWER-WC ATTACHMENT WITH SELF-CLEANING DEVICE AND A SELF-CLEANING METHOD FOR AN ELECTROLESS SHOWER-WC ATTACHMENT
(51) E02F 9/26	(73) Oceanwell (Xiamen) Industrial Co., Ltd.	(73) Oceanwell (Xiamen) Industrial Co., Ltd.
E02F 3/30	(72) PAN, Ruixue	(72) PAN, Ruixue
(11) EP3969673	PENG, Dong	PENG, Dong
(21) EP20724494.8	YU, Xingyi	YU, Xingyi
(47) 12.07.2023	(31) 202010608107	(31) 202010608107
(87) EP2020062644	(32) 29.06.2020	(32) 29.06.2020
19.11.2020	(33) China	(33) China
(22) 07.05.2020	(51) E04B 1/04	(51) E04B 1/04
(54) METHOD FOR CALCULATING AN EXCAVATION VOLUME	(11) EP3377710	(11) EP3377710
(73) Robert Bosch GmbH	(21) EP16810261.4	(21) EP16810261.4
(72) ROSE, Steffen	(47) 12.07.2023	(47) 12.07.2023
BUCHTALA, Boris	(87) EP2016078189	(87) EP2016078189
WAGNER, Horst	26.05.2017	26.05.2017
MANGA, Bilge	(22) 18.11.2016	(22) 18.11.2016
HASS, Erik	(54) WALL JOINT AND CONCRETE ELEMENT	(54) WALL JOINT AND CONCRETE ELEMENT
KRAUSE, Christian	(73) Iglauer, Bernd	(73) Iglauer, Bernd
LIU, Kai	(72) Iglauer, Bernd	(72) Iglauer, Bernd
SCHLEYER, Markus	(31) 102015119961	(31) 102015119961
(31) 102019207165	(32) 18.11.2015	(32) 18.11.2015
(32) 16.05.2019	(33) Germany	(33) Germany
(33) Germany	(51) E04B 1/26	(51) E04B 1/26
(51) E02F 9/26	(11) EP3615743	(11) EP3615743
E02F 9/20	(21) EP18727455.0	(21) EP18727455.0
(11) EP3969674	(47) 12.07.2023	(47) 12.07.2023
(21) EP20725462.4	(87) IT2018000043	(87) IT2018000043
(47) 12.07.2023	01.11.2018	01.11.2018
(87) EP2020062643	(22) 23.03.2018	(22) 23.03.2018
19.11.2020	(54) CONSTRUCTION SYSTEM FOR STRUCTURAL FRAMEWORKS OF BUILDINGS	(54) CONSTRUCTION SYSTEM FOR STRUCTURAL FRAMEWORKS OF BUILDINGS
(22) 07.05.2020	(73) Leapfactory S.r.l.	(73) Leapfactory S.r.l.
(54) METHOD FOR PUTTING DOWN A TOOL OF A CONSTRUCTION MACHINE	(72) TESTA, Stefano	(72) TESTA, Stefano
(73) Robert Bosch GmbH	GENTILCORE, Luca	GENTILCORE, Luca
(72) WAGNER, Horst	(31) 201700045810	(31) 201700045810
LIU, Kai	(32) 28.04.2017	(32) 28.04.2017
MANGA, Bilge		
KRAUSE, Christian		
(31) 102019207164		

(33) Italy	E04B 5/23	(47) 12.07.2023
(51) E04B 1/343	E04C 2/26	(22) 16.05.2022
E04B 1/61	(11) EP3868970	(54) DEVICE FOR OBSTRUCTING A
E04C 3/28	(21) EP21158505.4	DELIMITED OPENING UNDER A TILE
(11) EP3551812	(47) 12.07.2023	(73) MAFIGOP
(21) EP17818608.6	(22) 22.02.2021	(72) CHABANNE, Maxence
(47) 12.07.2023	(54) MIXED PREFABRICATED SLAB FOR	(31) 2105967
(87) GB2017053721	CONSTRUCTION, IN PARTICULAR	(32) 07.06.2021
21.06.2018	FOR FLOORS OR WALLS, AND	(33) France
(22) 12.12.2017	MANUFACTURING METHOD	(51) E04F 13/08
(54) A MODULAR CONSTRUCTED	(73) APB2	E04F 13/12
BUILDING INCORPORATING A	(72) ROUX, Philippe	(11) EP3483355
GROUND BEAM	DERREY, Jean-Bernard	(21) EP18204158.2
(73) Shapero, Robin William	KLEINDIENST, Quentin	(47) 12.07.2023
(72) Shapero, Robin William	(31) 2001721	(22) 02.11.2018
(31) 201621129	(32) 21.02.2020	(54) WALL PANEL WITH INTEGRAL
(32) 12.12.2016	(33) France	MOUNTING CLIP
(33) United Kingdom	(51) E04B 5/12	(73) Eleka Limited
(51) E04B 1/76	E04G 23/02	(72) BOURNE, Duncan
(11) EP3150772	E04B 5/23	(31) 201718487
(21) EP15188164.6	(11) EP3591130	(32) 08.11.2017
(47) 12.07.2023	(21) EP19175583.4	(33) United Kingdom
(22) 02.10.2015	(47) 12.07.2023	(51) E04F 15/02
(54) IMPROVED BUILDING WALL OR ROOF	(22) 21.05.2019	(11) EP4043663
SYSTEM COMPRISING FIBROUS	(54) CEILING CONSTRUCTION	(21) EP22164982.5
INSULATION	(73) Klasch Spezial- Bauartikel GmbH	(47) 12.07.2023
(73) URSA Insulation, S.A.	(72) Schiermair, Klaus	(22) 09.01.2019
(72) Molinero Arenas, Alejandro	(31) 505782018	(54) PANEL
Casado Domínguez, Arturo Luís	(32) 04.07.2018	(73) I4F LICENSING NV
Torrijos Hijón, Miguel Ángel	(33) Austria	(72) BOUCKÉ, Eddy Alberic
(51) E04B 2/06	(51) E04C 2/42	(31) 2020256
E04B 2/16	E04C 2/32	(32) 09.01.2018
E04C 2/38	E04H 17/14	(33) Netherlands
E04C 2/40	E04B 1/19	(51) E04F 15/02
E04B 1/82	(11) EP3929370	(11) EP3907346
E04C 1/39	(21) EP21178821.1	(21) EP20173023.1
E04C 1/40	(47) 12.07.2023	(47) 12.07.2023
E04B 1/84	(22) 10.06.2021	(22) 05.05.2020
E04B 2/02	(54) GRATE COMPRISING STRUCTURAL	(54) MULTI-PROFILE PANEL
(11) EP3913160	ELEMENT	(73) Eschlbeck, Franz
(21) EP21020265.1	(73) Staco Holding B.V.	(72) Eschlbeck, Franz
(47) 12.07.2023	(72) Kleuskens, Niek	(51) E04F 15/02
(22) 19.05.2021	Habets, Luc	B29C 63/00
(54) AN ACOUSTIC MODULAR SEGMENT	(31) 2025847	(11) EP3885511
AND AN ASSEMBLY OF ACOUSTIC	(32) 17.06.2020	(21) EP20165196.5
MODULAR SEGMENTS	(33) Netherlands	(47) 12.07.2023
(73) HON a.s.	(51) E04D 3/06	(22) 24.03.2020
(72) Juchelka, Pavel	E04C 2/54	(54) PANEL WITH SEALED PANEL EDGE
Václav, Hon	B32B 3/12	AND METHOD FOR PRODUCING THE
(31) 20203755	E04D 3/28	SAME
(32) 19.05.2020	(11) EP3470596	(73) Surface Technologies GmbH & Co. KG
(33) Czech Republic	(21) EP18198513.6	(72) Buhlmann, Carsten
(51) E04B 2/86	(47) 12.07.2023	Herrmann, Eberhard
E04G 9/05	(22) 03.10.2018	(51) E04F 15/02
(11) EP3507429	(54) REINFORCED PANEL FOR FORMING A	E04F 15/10
(21) EP17844693.6	ROOF COVERING	(11) EP3908719
(47) 12.07.2023	(73) DOTT. GALLINA S.r.l.	(21) EP20700101.7
(87) AU2017050938	(72) GALLINA, Daniel	(47) 12.07.2023
08.03.2018	(31) 201800008718	(87) EP2020050086
(22) 01.09.2017	201700110729	16.07.2020
(54) IMPROVEMENTS IN FORMWORK	(32) 19.09.2018	(22) 03.01.2020
(73) Rise Form Pty Ltd.	03.10.2017	(54) PANEL SUITABLE FOR ASSEMBLING A
(72) PSZCZONKA, Daniel	(33) Italy	FLOOR COVERING
(31) 2016903502	Italy	(73) Champion Link International Corporation
(32) 01.09.2016	(51) E04D 13/00	(72) VAN POYER, Tom
(33) Australia	E04D 13/17	BOON, Sven
(51) E04B 5/02	(11) EP4102003	BAERT, Thomas Luc Martine
	(21) EP22173536.8	

(31) 2022369	(51) E04G 11/04	E04G 11/28
(32) 10.01.2019	E04B 1/16	(11) EP3775435
(33) Netherlands	E04C 2/04	(21) EP19716832.1
(51) E04F 15/024	(11) EP3650614	(47) 12.07.2023
E04F 15/02	(21) EP19207683.4	(87) EP2019058132
(11) EP3807478	(47) 12.07.2023	10.10.2019
(21) EP19723201.0	(22) 07.11.2019	(22) 01.04.2019
(47) 12.07.2023	(54) BUILDING STRUCTURE	(54) SELF-CLIMBING SYSTEM WITH DRIVE
(87) IB2019052263	(73) Böhm, Peter	VIA A CIRCULATING DRIVE MEANS,
19.12.2019	Kleppe, Martin	AND METHOD FOR OPERATING A
(22) 20.03.2019	Weber, Lucie	SELF-CLIMBING SYSTEM
(54) AN HEAD FOR A SUPPORT OF	Röder, Ralf	(73) PERI SE
RAISED FLOORS	Müller, Helmut	(72) SCHMID, Josef
(73) Profilitec S.p.A. Socio Unico	Weber, Michael	(31) 102018204961
(72) BASSETTO, Andrea	(72) Kleppe, Martin	(32) 03.04.2018
EGLI, Roderick	Müller, Helmut	(33) Germany
(31) 201800006344	Böhm, Peter	(51) E04H 4/00
(32) 15.06.2018	Röder, Ralf	F16B 7/04
(33) Italy	Weber, Michael	(11) EP3907351
(51) E04F 15/14	Weber, Lucie	(21) EP21172870.4
E01C 11/04	(31) 102018127829	(47) 12.07.2023
E04B 1/68	(32) 07.11.2018	(22) 07.05.2021
(11) EP3702531	(33) Germany	(54) JOINT FOR SWIMMING POOL AND
(21) EP20155300.5	(51) E04G 13/06	SWIMMING POOL
(47) 12.07.2023	B28B 7/22	(73) Bestway Inflatables & Material Corp.
(22) 04.02.2020	(11) EP3502373	(72) ZHAO, Zhichao
(54) JOINT FILLING PROFILE	(21) EP18206784.3	DAI, Zhipeng
(73) SK Wiegriink Beteteiligungs GmbH	(47) 12.07.2023	YE, Feng
(72) WIEGRINK, Stefan	(22) 16.11.2018	CHEN, Xiaobo
(31) 202019101140 U	(54) FORMWORK FOR A FINISHED	(31) 202020747119 U
(32) 28.02.2019	STAIRCASE	(32) 08.05.2020
(33) Germany	(73) FRANZ OBERNDORFER GmbH & Co	(33) China
(51) E04G 3/26	KG	(51) E04H 9/02
E04G 5/00	(72) REDLBERGER, Florian	F16F 15/04
E04G 3/28	REDLBERGER, Alfred	(11) EP3417126
(11) EP3301241	(31) 510682017	(21) EP17731255.0
(21) EP17020446.5	(32) 21.12.2017	(47) 12.07.2023
(47) 12.07.2023	(33) Austria	(87) IB2017000126
(22) 28.09.2017	(51) E04G 17/00	24.08.2017
(54) SCAFFOLD PROVIDING WORK	E04G 11/04	(22) 17.02.2017
SAFETY	E04G 9/10	(54) DEVICE FOR SEISMIC ISOLATION OF
(73) Fleuren, Renate	E04B 2/86	STRUCTURES
(72) Fleuren, Renate	E04G 23/02	(73) Modula S.p.A.
(31) 102017000623	E04F 13/26	(72) CASSANI, Stefano
102017000173	E04F 21/00	STEFANI, Franco
102016015415	E04H 9/02	(31) UB20160880
102016011710	B25B 27/00	(32) 19.02.2016
(32) 25.01.2017	E04F 13/24	(33) Italy
12.01.2017	B25B 7/02	(51) E04H 12/08
23.12.2016	(11) EP3243978	(11) EP3704332
29.09.2016	(21) EP16207318.3	(21) EP17826528.6
(33) Germany	(47) 12.07.2023	(47) 12.07.2023
Germany	(22) 04.01.2013	(87) EP2017084670
Germany	(54) PANEL-TO-PANEL CONNECTIONS	09.05.2019
Germany	FOR STAY-IN-PLACE LINERS USED TO	(22) 27.12.2017
(51) E04G 7/30	REPAIR STRUCTURES	(54) METHOD FOR PRODUCING A SUB-
E04G 7/32	(73) CFS Concrete Forming Systems Inc.	SECTION OF A MULTI-PART TOWER
(11) EP3712348	(72) Fang, Zi Li	SECTION
(21) EP20164684.1	Richardson, George David	(73) eno energy systems GmbH
(47) 12.07.2023	Krivulin, Semion	(72) HEIN, Robert
(22) 20.03.2020	(31) 201261703209 P	AHRENS, Robin
(54) ASSEMBLY	201261583589 P	BULL, Michael
(73) ALTRAD plettac assco GmbH	(32) 19.09.2012	BOCKHOLT, Stefan
(72) Blobel, Erhard	05.01.2012	PORM, Karsten
(31) 102019107159	(33) United States of America	(31) 102017125717
(32) 20.03.2019	United States of America	(32) 03.11.2017
(33) Germany	(51) E04G 21/32	(33) Germany
	E04G 11/20	(51) E04H 12/22

E04G 23/02	(32) 24.09.2018	(72) Sferopoulos, Haralambos
E04H 12/34	(33) United Kingdom	(31) 20190100053
(11) EP3816370	(51) E05B 17/10	(32) 31.01.2019
(21) EP20204780.9	G07C 9/00	(33) Greece
(47) 12.07.2023	E05B 47/00	(51) E05B 27/00
(22) 29.10.2020	(11) EP3990725	E05B 19/00
(54) DEVICE AND METHOD FOR	(21) EP20728470.4	(11) EP3971371
SECURING A FOOT OF STRUCTURE	(47) 12.07.2023	(21) EP21197676.6
TO BE DISMANTLED BY CUTTING	(87) EP2020064414	(47) 12.07.2023
(73) RTE RESEAU DE TRANSPORT	(22) 25.05.2020	(22) 20.09.2021
D'ELECTRICITE	(54) ARRANGEMENT FOR ELECTRONIC	(54) LOCK AND KEY SYSTEM
(72) GERARD, Maxime	LOCKING SYSTEM, AND ELECTRONIC	(73) ASSA ABLOY Sicherheitstechnik GmbH
MOREAU, Stéphane	LOCKING SYSTEM	(72) Matschke, Steffen
(31) 1912211	(73) ASSA ABLOY AB	(31) 102020124366
(32) 30.10.2019	(72) NIEGMANN, Kaj	(32) 18.09.2020
(33) France	SKARP, Daniel	(33) Germany
(51) E04H 12/24	(31) 1950801	(51) E05B 41/00
H02G 7/20	(32) 27.06.2019	E05B 45/08
E04H 12/10	(33) Sweden	E05B 15/10
E04H 12/34	(51) E05B 17/14	E05B 47/00
H01Q 1/12	E05B 27/00	(11) EP3987133
(11) EP3492674	E05B 33/00	(21) EP20732232.2
(21) EP17833483.5	E05B 9/04	(47) 12.07.2023
(47) 12.07.2023	E05B 19/04	(87) EP2020066633
(87) CN2017093791	(11) EP4127364	24.12.2020
01.02.2018	(21) EP21713732.2	(22) 16.06.2020
(22) 21.07.2017	(47) 12.07.2023	(54) BOLT IDENTITY
(54) CROSS ARM FOR ANGLE TOWERS	(87) GR2021000014	(73) ASSA ABLOY AB
(73) Shanghai Shemar Power Engineering	30.09.2021	(72) JONSSON, Tomas
Co., Ltd	(22) 09.03.2021	MACKEGARD, Per
(72) YU, Jie	(54) DOOR LOCK AND KNOB SYSTEM	CEDERBLAD, Mats
LI, Dequan	WITH INVISIBLE HUB	JOHANSSON, Stefan
MA, Bin	(73) Sarbanis, Lampros	(31) 19181330
(31) 201610594229	(72) Sarbanis, Lampros	(32) 19.06.2019
201610597271	(31) 20200100154	(33) European Patent Office (EPO)
(32) 26.07.2016	(32) 23.03.2020	(51) E05B 45/00
26.07.2016	(33) Greece	E05B 67/00
(33) China	(51) E05B 17/20	E05B 71/00
China	E05C 9/18	B62H 5/00
(51) E05B 1/00	E05B 63/00	E05B 67/38
E05B 45/06	E05B 63/04	E05B 45/06
E05B 47/00	(11) EP3784854	(11) EP3739154
(11) EP3973119	(21) EP19727924.3	(21) EP20174554.4
(21) EP20734794.9	(47) 12.07.2023	(47) 12.07.2023
(47) 12.07.2023	(87) DE2019000072	(22) 14.05.2020
(87) GB2020051242	26.09.2019	(54) LOCKING SYSTEM
26.11.2020	(22) 18.03.2019	(73) ABUS August Bremicker Söhne KG
(22) 21.05.2020	(54) LOCKING SYSTEM FOR WINDOWS	(31) 102019113178
(54) CASEMENT WINDOW HANDLE	AND DOORS FOR RETROFIT	(32) 17.05.2019
SENSOR	(73) Spasovski, Marjan	(33) Germany
(73) Mighton Products Limited	(72) Spasovski, Marjan	(51) E05B 47/02
(72) DERHAM, Michael	(31) 102018106376	E05B 47/00
(31) 201907164	(32) 19.03.2018	E05C 9/00
(32) 21.05.2019	(33) Germany	(11) EP3714120
(33) United Kingdom	(51) E05B 19/04	(21) EP18822436.4
(51) E05B 9/00	B21D 53/42	(47) 12.07.2023
E05B 9/02	E05B 19/24	(87) GB2018053396
E05B 63/00	E05B 19/26	31.05.2019
E05B 63/04	(11) EP3918160	(22) 23.11.2018
(11) EP3626915	(21) EP20703283.0	(54) DOOR LOCK ASSEMBLY
(21) EP19199033.2	(47) 12.07.2023	(73) Mighton Products Limited
(47) 12.07.2023	(87) GR2020000008	(72) DERHAM, Michael
(22) 23.09.2019	06.08.2020	(31) 201719572
(54) LOCKCASE	(22) 16.01.2020	(32) 24.11.2017
(73) Gatemaster Ltd	(54) DETACHABLE IDENTIFICATION KEY	(33) United Kingdom
(72) MATTHEWS, Mark	HEAD	(51) E05B 47/06
NAPTHINE, Simon Garth	(73) Sferopoulos, Haralambos	(11) EP4039924
(31) 201815545		

(21) EP22153097.5	(73) Cogelec	(21) EP20747016.2
(47) 12.07.2023	(72) VIOT, Ambroise	(47) 12.07.2023
(22) 25.01.2022	(31) 2006681	(87) FR2020051079
(54) ELECTRONIC LOCK CYLINDER	(32) 25.06.2020	30.12.2020
(73) Cogelec	(33) France	(22) 22.06.2020
(72) KLUBA, Patrice	(51) E05B 65/00	(54) DEVICE FOR LOCKING AND/OR
(31) 2101059	E05B 65/46	UNLOCKING A MOTOR VEHICLE
(32) 04.02.2021	E05B 65/462	OPENING PANEL, VEHICLE
(33) France	E05G 1/00	COMPRISING SAID DEVICE AND
(51) E05B 47/06	E05G 1/04	METHOD FOR LOCKING OR
D06F 39/14	E05G 1/08	UNLOCKING A MOTOR VEHICLE
E05C 3/24	A47B 88/50	OPENING PANEL USING SAID DEVICE
E05B 47/00	G07C 9/00	(73) NOVARES France
E05B 17/00	E05B 47/00	Commissariat à l'Energie Atomique et
(11) EP3686384	E05B 47/02	aux Energies Alternatives
(21) EP19153955.0	A47B 88/75	(72) BENAÏSSA, Lamine
(47) 12.07.2023	A47B 88/90	CAZES, Christophe
(22) 28.01.2019	(11) EP4013929	MOULET, Jean-Sébastien
(54) DOOR LOCK FOR A DOOR, IN	(21) EP20758163.8	REICHHELD, Frédérick
PARTICULAR A WASHING MACHINE	(47) 12.07.2023	BOLLIER, François
(73) Kendrion Kuhnke Automation GmbH	(87) EP2020072994	(31) 1906774
(72) Heisen, Wolfram	25.02.2021	(32) 24.06.2019
Stegelmann, Jochen	(22) 17.08.2020	(33) France
Pfeiffer, Borgar	(54) STORAGE DEVICE FOR THEFT-	(51) E05B 85/00
(51) E05B 47/06	PROOF STORAGE OF VALUABLE	F16B 21/07
E05B 47/00	ARTICLES	F16B 5/06
(11) EP3699377	(73) Gunnebo Safe Storage AB	(11) EP4051857
(21) EP20155829.3	(72) KUNDLER, Nico	(21) EP20797368.6
(47) 12.07.2023	RYMILL, Andrew	(47) 12.07.2023
(22) 06.02.2020	(31) 1950941	(87) DE2020100890
(54) COUPLING MECHANISM FOR	(32) 16.08.2019	06.05.2021
MECHATRONIC LOCKING SYSTEM	(33) Sweden	(22) 14.10.2020
(73) Aug. Winkhaus GmbH & Co. KG	(51) E05B 67/36	(54) MOTOR VEHICLE CLIP CONNECTION
(72) Hartmann, Gernot	B60L 53/30	ELEMENT
(31) 102019202437	H05K 5/00	(73) Kiekert AG
(32) 22.02.2019	(11) EP4056793	(72) ÖZDOĞAN, Murat
(33) Germany	(21) EP22160917.5	STEFFEN, Tobias
(51) E05B 47/06	(47) 12.07.2023	FAITL, Jan
E05B 63/00	(22) 08.03.2022	(31) 102019129152
E05B 9/10	(54) SUPPLY STATION FOR ELECTRICAL	(32) 29.10.2019
E05B 17/00	VEHICLES AND SUPPLY FUNCTION	(33) Germany
E05B 17/04	BASE ASSEMBLY FOR SAME	(51) E05B 85/10
E05B 17/20	(73) Compleo Charging Solutions AG	E05B 81/06
E05B 47/00	(72) Kachouh, Checrallah	E05B 81/42
E05B 49/00	Dilgert, Simon	E05B 15/04
(11) EP3929380	(31) 102021105676	(11) EP4006275
(21) EP21181193.0	(32) 09.03.2021	(21) EP21215453.8
(47) 12.07.2023	(33) Germany	(47) 12.07.2023
(22) 23.06.2021	(51) E05B 77/28	(22) 14.04.2020
(54) LOCK CYLINDER	E05B 77/30	(54) MOVEMENT ARRANGEMENT FOR A
(73) Cogelec	(11) EP3663491	DOOR HANDLE ASSEMBLY
(72) VIOT, Ambroise	(21) EP17918305.8	(73) Witte Automotive GmbH
(31) 2006681	(47) 12.07.2023	(72) HERDERING, Markus
(32) 25.06.2020	(87) JP2017042536	(31) 102019206293
(33) France	24.01.2019	(32) 02.05.2019
(51) E05B 47/06	(22) 28.11.2017	(33) Germany
E05B 63/00	(54) VEHICLE DOOR LATCH DEVICE	(51) E05C 3/06
E05B 9/10	(73) Mitsui Kinzoku ACT Corporation	E05B 7/00
E05B 17/00	(72) NAGAOKA, Tomoharu	E05B 63/14
E05B 17/04	FUJIWARA, Hiroaki	E05B 63/20
E05B 17/20	(31) 2017140895	E05C 3/08
E05B 47/00	(32) 20.07.2017	E05C 5/00
E05B 49/00	(33) Japan	(11) EP2812519
(11) EP3929381	(51) E05B 81/76	(21) EP13728920.3
(21) EP21181201.1	E05B 85/10	(47) 12.07.2023
(47) 12.07.2023	E05B 81/78	(87) US2013024862
(22) 23.06.2021	E05B 17/10	15.08.2013
(54) LOCK CYLINDER	(11) EP3987137	(22) 06.02.2013

(54) LEVER ACTUATED COMPRESSION LATCH	(51) E05D 15/06 E06B 3/46 F16C 29/06	SECTION, CORRESPONDING VEHICLE AND CONTROL METHOD
(73) SOUTHCO, INC. Memmert GmbH + Co. KG	(11) EP3805501 (21) EP19806704.3 (47) 12.07.2023	(73) Faiveley Transport Tours (72) MONTANIE, Thierry SALLES, Olivier
(72) BENNETT, Nicholas, Paul KEMPSON, Philip, John	(87) KR2019006289 28.11.2019	(31) 2014119 (32) 24.12.2020 (33) France
(31) 201261597749 P 201261596571 P 201261596187 P	(22) 24.05.2019	(51) E05F 15/611
(32) 11.02.2012 08.02.2012 07.02.2012	(54) SLIDING WINDOW/DOOR SYSTEM INCLUDING ANNULAR ROLLER DEVICE FOR SLIDING WINDOW/DOOR	(11) EP3245372 (21) EP16701915.7 (47) 12.07.2023 (87) EP2016050850 21.07.2016 (22) 16.01.2016
(33) United States of America United States of America United States of America	(73) Filobe Co., Ltd. (72) LEE, Kwang-Seog (31) 20180058714 (32) 24.05.2018 (33) Korea (Republic)	(54) METHOD FOR OPERATING A DOOR DRIVE, DOOR DRIVE CONTROL, DOOR DRIVE AND HINGED DOOR
(51) E05C 19/08 A47C 1/14 E05B 47/00	(51) E05F 1/12 E05F 3/10 E05F 5/02	(73) Hörmann KG Antriebstechnik (72) SANKE, Michael (31) 102015104825 102015000571 (32) 27.03.2015 16.01.2015 (33) Germany Germany
(11) EP3795788 (21) EP19198908.6 (47) 12.07.2023 (22) 23.09.2019	(11) EP3969708 (21) EP20732492.2 (47) 12.07.2023 (87) EP2020063738 26.11.2020 (22) 15.05.2020	(51) E05F 15/63 E05F 1/10 E05F 3/22 (11) EP3483375 (21) EP17201744.4 (47) 12.07.2023 (22) 14.11.2017
(54) APPARATUS FOR LOCKING A RENTAL CHAIR	(54) COMPACT AND DAMPENED HINGE DEVICE	(54) DEVICE FOR AT LEAST PARTIALLY AUTOMATIC ACTUATION OF A DOOR WING
(73) BeachBuddy GmbH (72) Bliesener, Jens	(73) C.M.I. Cerniere Meccaniche Industriali S.r.L. (72) TERENCEI, Emanuele (31) 201900006985 (32) 17.05.2019 (33) Italy	(73) dormakaba Deutschland GmbH (72) LYGIN, Konstantin BUSCH, Sven
(51) E05D 3/02 E05D 3/18 E05D 7/04	(51) E05F 3/10 E05F 3/22 E05F 15/63	(51) E05F 15/63 E05F 1/12 E05F 1/10 E05F 5/10 E05F 5/00 (11) EP3916185 (21) EP21186881.5 (47) 12.07.2023 (22) 08.05.2018
(11) EP3971377 (21) EP21197513.1 (47) 12.07.2023 (22) 17.09.2021	(11) EP3683392 (21) EP19152192.1 (47) 12.07.2023 (22) 16.01.2019	(54) FURNITURE DRIVE SYSTEM (73) Julius Blum GmbH (72) HÄMMERLE, Kurt GRIMM, Matthias (31) 504052017 (32) 12.05.2017 (33) Austria
(54) HINGE, FRAME-PANEL ASSEMBLY FOR CLOSING AN OPENING AND PROCESS FOR ADJUSTING A FRAME-PANEL ASSEMBLY	(54) DOOR DRIVE AND METHOD FOR MOUNTING A DOOR DRIVE	(51) E06B 1/02 E06B 1/60 E06B 1/64 E06B 1/62 E06B 1/34 E04B 1/76 (11) EP3587718 (21) EP19180620.7 (47) 12.07.2023 (22) 17.06.2019
(73) OTLAV S.p.A (72) PICCOLO, Lorenzo (31) 202000022090 (32) 18.09.2020 (33) Italy	(73) dormakaba Deutschland GmbH (72) Vetter, Matthias	
(51) E05D 11/00 A47K 3/30 E05B 1/04	(51) E05F 5/02 (11) EP3969710 (21) EP20735013.3 (47) 12.07.2023 (87) FR2020000167 19.11.2020 (22) 11.05.2020	
(11) EP3699382 (21) EP20156852.4 (47) 12.07.2023 (22) 12.02.2020	(54) OVERLOAD BUMPER FOR MOTOR VEHICLE HOOD	
(54) SET COMPRISING A FITTING AND A PLURALITY OF COVER PLATES FOR THE FITTING	(73) PSA Automobiles SA (72) BRUNET, Mickael (31) 1905106 (32) 16.05.2019 (33) France	
(73) Altura Leiden Holding B.V. (31) 202019101058 U (32) 25.02.2019 (33) Germany	(51) E05F 15/43 (11) EP4019729 (21) EP21215849.7 (47) 12.07.2023 (22) 20.12.2021	
(51) E05D 11/00 B23B 47/28	(54) DOOR FOR ACCESSING A TRANSPORT VEHICLE COMPRISING MEANS FOR MONITORING THE MOVEMENT OF ITS OPENABLE	
(11) EP3705672 (21) EP19161509.5 (47) 12.07.2023 (22) 08.03.2019		
(54) TOOL FOR MOUNTING FITTINGS ON CONSTRUCTION PROFILES		
(73) Glasbau Wäschle GmbH & Co. KG (72) WÄGNER, Steffen WÄSCHLE, Heinrich		

(54) ASSEMBLY COMPRISING A BASE FRAME AND A WINDOW FRAME MOUNTED ON THE BASE FRAME	(31) 102021106140 (32) 12.03.2021 (33) Germany	(51) E06B 9/17 E06B 1/32 E06B 1/70 E06B 5/16
(73) AFL Foessel	(51) E06B 7/10	(11) EP4023850
(72) POISSON, Olivier	E06B 7/06	(21) EP20425064.1
(31) 1856046	E06B 7/23	(47) 12.07.2023
(32) 29.06.2018	(11) EP3848550	(22) 30.12.2020
(33) France	(21) EP20199698.0	(54) PORTAL FRAME STRUCTURE FOR FINISHING AND EQUIPPING AN OPENING OF AN OUTER WALL OF A BUILDING
(51) E06B 1/62	(47) 12.07.2023	(73) Alpac S.r.l.
(11) EP3851624	(22) 01.10.2020	(72) DALLA VIA, Luciano
(21) EP20152632.4	(54) WINDOW WITH A VENTILATION DUCT	(51) E06B 9/322
(47) 12.07.2023	(73) SCHÜCO International KG	E06B 9/323
(22) 20.01.2020	(72) KLEINER, Kristof	(11) EP3081735
(54) SEALING TAPE ROLL	WEDEMEYER, Jens Thorgen	(21) EP16165637.6
(73) ISO-Chemie GmbH	HOHENBERG, Arthur	(47) 12.07.2023
(51) E06B 1/64	(31) 102020106696	(22) 15.04.2016
E06B 1/68	102019126756	(54) DRIVE UNIT FOR AN ARCHITECTURAL OPENING COVERING
E06B 1/62	(32) 11.03.2020	(73) HUNTER DOUGLAS INDUSTRIES B.V.
E06B 1/70	04.10.2019	(72) MARTIN, David
E06B 1/60	(33) Germany	DEKKER, Nico
(11) EP3141687	Germany	(31) 1041277
(21) EP15184269.7	(51) E06B 7/14	(32) 17.04.2015
(47) 12.07.2023	E06B 9/58	(33) Netherlands
(22) 08.09.2015	E06B 1/70	(51) E21B 4/14
(54) SEAL FOR A DOOR PREVENTING MOVEMENT BEHIND IT	(11) EP3783187	E21B 10/36
(73) profine GmbH	(21) EP20183156.7	(11) EP3913184
(72) Jansig, Peter	(47) 12.07.2023	(21) EP20175331.6
Harder, Bernd	(22) 30.06.2020	(47) 12.07.2023
Kast, Alexander	(54) SYSTEM WITH A WINDOW, A SHADING AND A DRAINAGE ELEMENT	(22) 19.05.2020
(51) E06B 3/00	(73) GEST Holding GmbH	(54) SPLINE LUBRICATION FOR DTH HAMMERS
(11) EP3527769	(72) STEMESEDER, Edgar	(73) Sandvik Mining and Construction Oy
(21) EP19155578.8	(31) 102019122478	Sandvik Mining and Construction Tools AB
(47) 12.07.2023	(32) 21.08.2019	(72) BRUANDET, Olivier
(22) 05.02.2019	(33) Germany	MÄKI, Jorma
(54) WINDOW OR THE LIKE AND METHOD FOR MANAGING A DATABASE FOR COMPONENTS OF A WINDOW	(51) E06B 7/21	(51) E21B 7/04
(73) Aug. Winkhaus GmbH & Co. KG	E06B 3/46	E21B 7/20
(72) Brink, Volker	(11) EP3938610	E21B 7/30
Wieczoreck, Alexander	(21) EP20715464.2	E21B 10/42
(31) 102018202495	(47) 12.07.2023	E21B 10/62
(32) 19.02.2018	(87) IB2020052151	E21B 12/00
(33) Germany	17.09.2020	F16L 1/028
(51) E06B 3/46	(22) 11.03.2020	(11) EP4004326
(11) EP3822448	(54) DROP DOWN SEAL FOR DOORS OR WINDOWS WITH SLIDING PANEL	(21) EP20762020.4
(21) EP20207227.8	(73) Comaglio S.r.l.	(47) 12.07.2023
(47) 12.07.2023	(72) COMAGLIO, Cesare	(87) US2020046685
(22) 12.11.2020	(31) 201900003599	25.02.2021
(54) STRUCTURE FOR HIGHLY VERSATILE SLIDING ARCHITECTURAL ELEMENTS	(32) 12.03.2019	(22) 17.08.2020
(73) Protek S.r.l.	(33) Italy	(54) PULLBACK SYSTEM FOR DRILLING TOOL
(72) Maggioni, Giovanni	(51) E06B 9/17	(73) Vermeer Manufacturing Company
Maggioni, Maurizio	(11) EP3768933	(72) SMITH, Jacob, Richard
(31) 201900021072	(21) EP19712570.1	DORIN, Tyler, J.
(32) 13.11.2019	(47) 12.07.2023	LANGENFELD, Michael, David
(33) Italy	(87) EP2019056979	(31) 201962889717 P
(51) E06B 3/48	26.09.2019	(32) 21.08.2019
E06B 9/17	(22) 20.03.2019	(33) United States of America
(11) EP4060157	(54) ASSEMBLY OF A BOX, IN PARTICULAR A ROLLER SHUTTER BOX, AND MOUNTING FRAME	(51) E21B 7/04
(21) EP22158158.0	(73) Deceuninck NV	F16L 1/028
(47) 12.07.2023	(72) KIMPE, Florent	E02F 5/18
(22) 23.02.2022	SOETAERT, Luc	E21B 47/024
(54) GATE COMPRISING A PASS DOOR	KYNDT, Bart	E21B 47/12
(73) Hörmann KG Ichttershausen	(31) 18163050	
(72) Zeh, Christina	(32) 21.03.2018	
Ebert, Sascha	(33) European Patent Office (EPO)	

E21B 47/06	F16L 39/00	(54) DOWNHOLE DEVICE AND
E21B 21/08	F16L 9/18	DOWNHOLE SYSTEM
E21B 44/00	E21B 21/12	(73) Welltec A/S
E21B 7/06	(11) EP2802732	(72) KUMAR, Satish
E21B 7/10	(21) EP13702936.9	(31) 16155044
E21B 7/28	(47) 12.07.2023	(32) 10.02.2016
E21B 44/02	(87) EP2013050509	(33) European Patent Office (EPO)
(11) EP3872295	18.07.2013	(51) E21B 33/038
(21) EP20020395.8	(22) 11.01.2013	E21B 41/04
(47) 12.07.2023	(54) NESTED DUAL DRILL PIPE	E21B 43/017
(22) 19.07.2013	(73) Reelwell AS	E21B 33/035
(54) INGROUND OPERATIONS, SYSTEM, COMMUNICATIONS AND ASSOCIATED APPARATUS	(72) ALHAUG, Espen SYSE, Harald	(11) EP4028633
(73) Merlin Technology Inc.	(31) 201213348818	(21) EP20771515.2
(72) Chau, Albert W.	(32) 12.01.2012	(47) 12.07.2023
Medeiros, Benjamin John	(33) United States of America	(87) EP2020075161
Caswell, Craig	(51) E21B 21/06	18.03.2021
(31) 201261674248 P	B01D 3/02	(22) 09.09.2020
(32) 20.07.2012	B01D 11/04	(54) A SUBSEA DEPLOYABLE
(33) United States of America	C10M 175/00	INSTALLATION AND WORKOVER
(51) E21B 17/042	E21B 41/00	CONTROL SYSTEM SKID AND
(11) EP3298228	B01D 3/14	METHOD OF INSTALLATION THEREOF
(21) EP16723383.2	B01D 3/38	(73) FMC Kongsberg Subsea AS
(47) 12.07.2023	(11) EP3658742	(72) SAUGERUD, Steinar
(87) EP2016061292	(21) EP19750511.8	HALSET, Kjetil
01.12.2016	(47) 12.07.2023	JONSDJORD, Ole Vidar
(22) 19.05.2016	(87) US2019016825	(31) 20191082
(54) THREADED COUPLING END FOR A PERCUSSION DRILL STRING COMPONENT	15.08.2019	(32) 09.09.2019
(73) Sandvik Intellectual Property AB	(22) 06.02.2019	(33) Norway
(72) WICKSTRÖM, David	(54) APPARATUS AND METHOD FOR A REMEDICATION PLANT	(51) E21B 33/127
NORMAN, Andreas	(73) Astec, Inc.	E21B 33/14
(31) 15168925	Municipal Enterprises Ltd.	E21B 43/10
(32) 22.05.2015	(72) SCOTT, Jerry	(11) EP3746629
(33) European Patent Office (EPO)	MCNABB, Dusty	(21) EP19702450.8
(51) E21B 17/042	REED, Bob	(47) 12.07.2023
(11) EP3798409	FELTMAN, Wendell	(87) EP2019052485
(21) EP19199254.4	ROONEY, Patrick	08.08.2019
(47) 12.07.2023	RISLEY, Kevin	(22) 01.02.2019
(22) 24.09.2019	(31) 201862626828 P	(54) COMPLETION METHOD AND COMPLETION SYSTEM
(54) THREADED CONNECTION INCLUDING AN INTERMEDIATE SHOULDER	(32) 06.02.2018	(73) Welltec Oilfield Solutions AG
(73) Vallourec Oil and Gas France	(33) United States of America	(72) KRÆMÉR, Jon
Nippon Steel Corporation	(51) E21B 21/08	(31) 18154968
(72) FOTHERGILL, Alan	E21B 21/10	(32) 02.02.2018
DUFRENE, Corey	E21B 44/00	(33) European Patent Office (EPO)
MARUTA, Satoshi	E21B 33/08	(51) E21B 41/00
(51) E21B 17/042	(11) EP3685005	G01V 99/00
F16L 15/00	(21) EP18859476.6	(11) EP3708768
(11) EP3803028	(47) 12.07.2023	(21) EP20162597.7
(21) EP19726396.5	(87) US2018051270	(47) 12.07.2023
(47) 12.07.2023	28.03.2019	(22) 12.03.2020
(87) EP2019063436	(22) 17.09.2018	(54) COUPLING A SIMULATOR AND AT LEAST ONE OTHER SIMULATOR
28.11.2019	(54) ROTATING CONTROL DEVICE	(73) Chevron U.S.A. Inc.
(22) 24.05.2019	(73) Schlumberger Technology B.V.	(72) LI, Kon-Ming Gary
(54) TUBULAR THREADED CONNECTION	(72) TRAN, Lap	GUYAGULER, Baris
(73) Vallourec Oil and Gas France	(31) 201762560651 P	ZHOU, Yifan
NIPPON STEEL CORPORATION	(32) 19.09.2017	WANG, Bin
(72) FOTHERGILL, Alan	(33) United States of America	(31) 201962817337 P
MARTIN, Pierre	(51) E21B 23/01	(32) 12.03.2019
BRIANE, Benoît	E21B 23/02	(33) United States of America
FOULOGNE, Anthony	E21B 34/14	(51) E21B 41/02
(31) 18305639	(11) EP3414420	E21B 41/00
(32) 25.05.2018	(21) EP17704716.4	E21B 47/12
(33) European Patent Office (EPO)	(47) 12.07.2023	(11) EP3563033
(51) E21B 17/18	(87) EP2017052802	(21) EP16829111.0
	17.08.2017	(47) 12.07.2023
	(22) 09.02.2017	(87) GB2016054097
		05.07.2018



(22) 30.12.2016	(54) DRILLSTRING ASSEMBLY	FOLBERTH, Martin
(54) DOWNHOLE COMMUNICATION	FRAMEWORK	(31) 201562255118 P
(73) Metrol Technology Ltd	(73) Geoquest Systems B.V.	(32) 13.11.2015
(72) HUDSON, Steven Martin	(72) SURYADI, Hendrik Gunawan	(33) United States of America
ROSS, Shaun Compton	MU, Chao	(51) E21B 47/001
JARVIS, Leslie David	CHEN, Xi	E21B 41/00
(51) E21B 43/00	MA, Yun	(11) EP3759309
G01V 99/00	YU, Tao	(21) EP19708652.3
(11) EP3744946	BOLCHOVER, Paul	(47) 12.07.2023
(21) EP20175185.6	(51) E21B 44/00	(87) GB2019050520
(47) 12.07.2023	E21B 7/04	06.09.2019
(22) 18.05.2020	(11) EP2334903	(22) 26.02.2019
(54) METHOD FOR MODELLING A	(21) EP09820319.3	(54) SUBSEA MODULE
SEDIMENTARY BASIN, BY TAKING	(47) 12.07.2023	(73) Aker Solutions Limited
INTO ACCOUNT AT LEAST ONE	(87) IB2009007127	(72) SLATER, Robin
PREPONDERANT MIGRATION	22.04.2010	(31) 201803196
MECHANISM	(22) 14.10.2009	(32) 27.02.2018
(73) IFP Energies nouvelles	(54) SYSTEM AND METHOD FOR ONLINE	(33) United Kingdom
(72) TRABY, Renaud	AUTOMATION	(51) E21B 47/10
DUCROS, Mathieu	(73) Schlumberger Holdings Limited	E21B 49/08
WOLF, Sylvie	(72) DUNLOP, Jonathan	(11) EP3382142
FAILLE, Isabelle	BELASKIE, James	(21) EP17382158.8
WILLIEN, Françoise	ALFRED, Walter	(47) 12.07.2023
PEGAZ-FIORNET, Sylvie	(31) 105184 P	(22) 29.03.2017
(31) 1905606	(32) 14.10.2008	(54) COMPUTER IMPLEMENTED METHOD
(32) 27.05.2019	(33) United States of America	FOR CHARACTERIZING A TARGET
(33) France	(51) E21B 47/00	FLUID OF A HYDROCARBON
(51) E21B 43/00	G01V 3/18	RESERVOIR UNDER UNCERTAINTY
G06F 30/23	G01V 3/38	(73) Repsol, S.A.
(11) EP3857022	G01V 3/28	(72) SANZ SANZ, Paula
(21) EP19778730.2	(11) EP3129586	PEÑA DÍEZ, José Luis
(47) 12.07.2023	(21) EP15772508.6	BENITO IGLESIAS, Verónica
(87) US2019050875	(47) 12.07.2023	MERINO GARCÍA, Daniel
02.04.2020	(87) US2015022906	(51) E21B 47/16
(22) 12.09.2019	08.10.2015	H04B 11/00
(54) RESERVOIR SIMULATION WITH	(22) 27.03.2015	H04W 40/12
PRESSURE SOLVER FOR NON-	(54) MULTIAXIAL WELL LOGGING	(11) EP3101224
DIAGONALLY DOMINANT INDEFINITE	INSTRUMENT RESPONSE IN DIPPING	(21) EP15290150.0
COEFFICIENT MATRICES	AND CROSSBEDDED FORMATIONS	(47) 12.07.2023
(73) Saudi Arabian Oil Company	(73) Schlumberger Technology B.V.	(22) 05.06.2015
(72) DOGRU, Ali Haydar	(72) ALLEN, David Furse	(54) BACKBONE NETWORK
(31) 201816139326	ABUBAKAR, Aria	ARCHITECTURE AND NETWORK
(32) 24.09.2018	BARBER, Thomas Daniel	MANAGEMENT SCHEME
(33) United States of America	WANG, Gong Li	FOR DOWNHOLE WIRELESS
(51) E21B 43/38	WU, Peter	COMMUNICATIONS SYSTEM
(11) EP3688278	(31) 201514669683	(73) Schlumberger Holdings Limited
(21) EP18786122.4	201461972345 P	(72) Vannuffelen, Stephane
(47) 12.07.2023	(32) 26.03.2015	Croux, Arnaud
(87) US2018052035	30.03.2014	(51) E21B 47/26
04.04.2019	(33) United States of America	G07C 3/00
(22) 20.09.2018	United States of America	E21B 27/00
(54) DOWNHOLE SAND AND GAS	(51) E21B 47/00	E21B 41/00
SEPARATION SYSTEM FOR USE WITH	G01V 3/26	(11) EP4015766
A ROD PUMP	G01V 3/30	(21) EP20216136.0
(73) Forum US, Inc.	G01V 3/20	(47) 12.07.2023
(72) WEBBER, Andrew	G01V 3/28	(22) 21.12.2020
TULLY, Matthew	(11) EP3374600	(54) EXCAVATION EQUIPMENT AND
(31) 201762563813 P	(21) EP16865136.2	METHOD
(32) 27.09.2017	(47) 12.07.2023	(73) BAUER Spezialtiefbau GmbH
(33) United States of America	(87) US2016061637	(72) SEMEL, Matthias, Dr.
(51) E21B 44/00	18.05.2017	SCHÖBER, Andreas
(11) EP3619399	(22) 11.11.2016	(51) E21B 49/00
(21) EP17908204.5	(54) RESISTIVITY IMAGING USING	(11) EP3475529
(47) 12.07.2023	COMBINATION CAPACITIVE AND	(21) EP16906459.9
(87) CN2017082848	INDUCTIVE SENSORS	(47) 12.07.2023
08.11.2018	(73) Baker Hughes Holdings LLC	(87) US2016039134
(22) 03.05.2017	(72) KIRCHMEIER, Eduard	28.12.2017
	GOREK, Matthias	

(22) 24.06.2016	(54) DRILLING MEASUREMENT VALUATION	(54) DIFFUSED COOLING ARRANGEMENT FOR GAS TURBINE ENGINE COMPONENTS	(33) United States of America
(73) Geoquest Systems B.V.	(72) OMERAGIC, Dzevat BAILEY, William	(73) Raytheon Technologies Corporation	(51) F01K 13/00
(51) F01B 3/00	F01B 3/04	(72) SURACE, Raymond	F01K 17/00
F01B 25/02	F15B 11/12	QUACH, San	F01K 23/06
F16H 27/00	A61B 17/00	(31) 202017010904	C10G 9/00
(11) EP3810899	(11) EP3810899	(32) 03.09.2020	(11) EP3980627
(21) EP19745794.8	(21) EP19745794.8	(33) United States of America	(21) EP20731832.0
(47) 12.07.2023	(47) 12.07.2023	(51) F01D 5/28	(47) 12.07.2023
(87) NL2019050381	26.12.2019	F01D 5/14	(87) EP2020065644
(22) 19.06.2019	(22) 19.06.2019	(11) EP4034753	10.12.2020
(54) GAS OR FLUID DRIVEN MECHANICAL STEPPER MOTOR	(54) GAS OR FLUID DRIVEN MECHANICAL STEPPER MOTOR	(21) EP20776170.1	(22) 05.06.2020
(73) Eindhoven Medical Robotics B.V.	(73) Eindhoven Medical Robotics B.V.	(47) 12.07.2023	(54) METHOD FOR DRIVING MACHINES IN AN ETHYLENE PLANT STEAM GENERATION CIRCUIT, AND INTEGRATED ETHYLENE AND POWER PLANT SYSTEM
(72) JANSSENS, Marc	(72) JANSSENS, Marc	(87) EP2020076620	(73) Technip Energies France
(31) 201862687532 P	(31) 201862687532 P	01.04.2021	(72) OUD, Peter
(32) 20.06.2018	(32) 20.06.2018	(22) 23.09.2020	(31) 19178729
(33) United States of America	(33) United States of America	(54) BLADE FOR A TURBOMACHINE ENGINE AND CORRESPONDING TURBOMACHINE ENGINE	(32) 06.06.2019
(51) F01D 1/02	F01D 25/00	(73) Safran Helicopter Engines	(33) European Patent Office (EPO)
F01D 1/22	F01D 1/22	(72) HERNANDEZ, Lorenzo, Huacan	(51) F01K 23/06
(11) EP3640431	(11) EP3640431	DIJOUR, Marc, Maurice	F01K 23/10
(21) EP18817701.8	(21) EP18817701.8	FONTS, Pierre-Marie	F01K 9/00
(47) 12.07.2023	(47) 12.07.2023	CLECH, H�el�ene	(11) EP3757358
(87) CN2018088142	20.12.2018	NIN, Michel	(21) EP20176715.9
(22) 24.05.2018	(22) 24.05.2018	(31) 1910503	(47) 12.07.2023
(54) PNEUMATIC ENGINE	(54) PNEUMATIC ENGINE	(32) 24.09.2019	(22) 27.05.2020
(73) Tranf Technology (Xiamen) Co., Ltd	(73) Tranf Technology (Xiamen) Co., Ltd	(33) France	(54) DRIVE UNIT FOR A MOTOR VEHICLE WITH A CIRCUIT PROCESS DEVICE
(72) ZENG, Jinghua	(72) ZENG, Jinghua	(51) F01D 17/16	(73) VOLKSWAGEN AG
JIN, Kaixin	JIN, Kaixin	(11) EP3176384	(72) Semke, Artur
CHEN, Zhimin	CHEN, Zhimin	(21) EP15198072.9	Schulenburg, Thomas
LI, Yanfu	LI, Yanfu	(47) 12.07.2023	Carstensen, Asmus
CHEN, Jianming	CHEN, Jianming	(22) 04.12.2015	Maischik, Thomas
XU, Tao	XU, Tao	(54) INNER SHROUD, CORRESPONDING INNER SHROUD SECTOR, VANE ASSEMBLY AND TURBOMACHINE	Naumann, Hardy
XU, Shuidian	XU, Shuidian	(73) MTU Aero Engines AG	Herr, Andreas
PAN, Jianchen	PAN, Jianchen	(72) Mairhanser, Vitalis	Horn, Andr�e
(31) 201710458557	(31) 201710458557	Zotz, Georg	(31) 102019208651
(32) 16.06.2017	(32) 16.06.2017	Albers, Lothar	(32) 13.06.2019
(33) China	(33) China	(51) F01D 17/16	(33) Germany
(51) F01D 5/18	F01D 5/18	F04D 29/56	(51) F01K 23/10
(11) EP3551851	(11) EP3551851	F01D 11/00	F01K 25/06
(21) EP17702719.0	(21) EP17702719.0	(11) EP4001596	F01K 25/08
(47) 12.07.2023	(47) 12.07.2023	(21) EP21210053.1	(11) EP3458688
(87) US2017013892	26.07.2018	(47) 12.07.2023	(21) EP17726375.3
(22) 18.01.2017	(22) 18.01.2017	(22) 23.11.2021	(47) 12.07.2023
(54) TURBINE ELEMENT	(54) TURBINE ELEMENT	(54) GAS TURBINE ENGINE	(87) IB2017052880
(73) Siemens Energy Global GmbH & Co. KG	(73) Siemens Energy Global GmbH & Co. KG	(73) PRATT & WHITNEY CANADA CORP.	23.11.2017
(72) RODRIGUEZ, Jose L.	(72) RODRIGUEZ, Jose L.	(72) O'BRIEN, James	(22) 16.05.2017
HARRINGTON, John T.	HARRINGTON, John T.	(31) 202017101727	(54) COGENERATIVE ORGANIC RANKINE CYCLE SYSTEM
GOLSEN, Matthew J.	GOLSEN, Matthew J.	(32) 23.11.2020	(73) Turboden S.p.A.
MERRILL, Gary B.	MERRILL, Gary B.	(33) United States of America	(72) VESCOVO, Riccardo
WRIGHT, Stephen	WRIGHT, Stephen	(51) F01D 25/18	BINI, Roberto
(51) F01D 5/18	F01D 9/06	(11) EP3772571	GAIA, Mario
F01D 5/28	F01D 5/28	(21) EP20188873.2	SPAGNOLI, Emma
(11) EP3967845	(11) EP3967845	(47) 12.07.2023	(31) UA20163546
(21) EP21194792.4	(21) EP21194792.4	(22) 31.07.2020	(32) 18.05.2016
(47) 12.07.2023	(47) 12.07.2023	(54) DUCTED OIL SCOOP FOR GAS TURBINE ENGINE	(33) Italy
(22) 03.09.2021	(22) 03.09.2021	(73) Raytheon Technologies Corporation	(51) F01L 1/20
		(72) COFFIN, James B.	F01L 1/18
		DAVIS, Todd A.	F02B 75/00
		WALKER, Joseph D.	(11) EP3935267
		(31) 201916535454	(21) EP20711254.1
		(32) 08.08.2019	(47) 12.07.2023
			(87) GB2020050515
			10.09.2020

(22) 05.03.2020	(54) CONNECTION ADAPTER FOR	SIEMUND, Stephan
(54) MARINE OUTBOARD MOTOR WITH	CONNECTING A TREATMENT DEVICE	SEEL, Oliver
VALVE TRAIN HAVING ADJUSTABLE	TO A CONNECTION HEAD OF A	SCHMITZ, Thomas
LASH	TREATMENT DEVICE, IN PARTICULAR	SIANI, Attilio
(73) Cox Powertrain Limited	FOR LIQUID FLUIDS, CONNECTION	(31) 16182968
(72) LAYCOCK, Adam	HEAD AND TREATMENT DEVICE	(32) 05.08.2016
(31) 201903076	(73) MANN+HUMMEL GmbH	(33) European Patent Office (EPO)
(32) 07.03.2019	(72) THALMANN, Christian	(51) F01N 3/10
(33) United Kingdom	OTAGERI, Sangamesh	F01N 3/28
(51) F01M 1/00	BANGALORE PANNEERSELVAM,	B01D 46/24
F02B 63/02	Mohan	(11) EP3797220
F02B 75/00	(31) 102017003368	(21) EP19726337.9
F16N 19/00	(32) 06.04.2017	(47) 12.07.2023
(11) EP3374607	(33) Germany	(87) EP2019062604
(21) EP16791766.5	(51) F01N 3/021	28.11.2019
(47) 12.07.2023	F01N 3/023	(22) 16.05.2019
(87) US2016058909	F01N 3/025	(54) HONEYCOMB AND METHOD FOR
18.05.2017	F01N 3/035	MANUFACTURING THE HONEYCOMB
(22) 26.10.2016	F01N 3/06	(73) Vitesco Technologies GmbH
(54) SMALL AIR-COOLED ENGINE	F01N 3/38	(72) HIRTH, Peter
ASSEMBLY WITH DRY SUMP	(11) EP3423682	KURTH, Ferdi
LUBRICATION SYSTEM	(21) EP17755930.9	PABST, Christoph
(73) Briggs & Stratton, LLC	(47) 12.07.2023	VOIT, Michael
(72) SULLIVAN, Ryan	(87) IB2017051087	SCHEPERS, Sven
KWIATKOWSKI, Tim	31.08.2017	(31) 102018208098
PRICE, Robert	(22) 24.02.2017	(32) 23.05.2018
HELLMAN, Adam J.	(54) SYSTEMS, DEVICES, AND METHODS	(33) Germany
SCHNEIKER, John	FOR REGENERATING A PARTICULATE	(51) F01N 3/20
GROH, Casey	FILTER	F01N 3/28
JOHNSON, Gary	(73) JTSMCDP, LLC	F01N 13/18
(31) 201615295294	(72) PHILIPS, David	H05B 3/50
201662335500 P	STILES, John	(11) EP3864262
201562255227 P	COLAW, Mark	(21) EP19805896.8
(32) 17.10.2016	(31) 201662299303 P	(47) 12.07.2023
12.05.2016	(32) 24.02.2016	(87) EP2019077571
13.11.2015	(33) United States of America	16.04.2020
(33) United States of America	(51) F01N 3/027	(22) 11.10.2019
United States of America	F01N 3/20	(54) APPARATUS FOR EXHAUST GAS
United States of America	(11) EP3901433	TREATMENT
(51) F01M 5/00	(21) EP21163306.0	(73) Vitesco Technologies GmbH
F01P 3/12	(47) 12.07.2023	(72) RINGS, Florian
F01P 3/20	(22) 18.03.2021	HIRTH, Peter
F01P 11/08	(54) EXHAUST HEATER	(31) 102018217437
F02F 1/10	(73) Purem GmbH	(32) 11.10.2018
F02F 1/14	(72) Uysal, Fatih	(33) Germany
(11) EP3726013	Höckel, Sandra	(51) F01P 3/18
(21) EP18889575.9	Prommersberger, Holger	F01M 5/00
(47) 12.07.2023	Kuschel, Dietmar	F01P 7/16
(87) JP2018043388	Kurpejovic, Enver	F01P 11/08
20.06.2019	(31) 102020110869	(11) EP3597879
(22) 26.11.2018	(32) 22.04.2020	(21) EP19173991.1
(54) ENGINE	(33) Germany	(47) 12.07.2023
(73) Yanmar Power Technology Co., Ltd.	(51) F01N 3/035	(22) 13.05.2019
(72) SUGIMOTO, Kazuma	F01N 3/28	(54) AGRICULTURAL VEHICLE WITH A
NAGANAWA, Hiroaki	F01N 3/10	COOLING SYSTEM
ONODERA, Takayuki	B01D 46/24	(73) CLAAS Tractor SAS
(31) 2017240460	(11) EP3494295	(72) Renaud, Jeremy
(32) 15.12.2017	(21) EP17740769.9	(31) 102018117136
(33) Japan	(47) 12.07.2023	(32) 16.07.2018
(51) F01M 11/03	(87) EP2017068776	(33) Germany
B01D 35/30	08.02.2018	(51) F02B 33/20
F02M 37/22	(22) 25.07.2017	F01B 9/02
(11) EP3607176	(54) FOUR WAY CONVERSION CATALYSTS	F02B 75/02
(21) EP18718119.3	FOR GASOLINE ENGINE EMISSIONS	(11) EP3771812
(47) 12.07.2023	TREATMENT SYSTEMS	(21) EP20186473.3
(87) EP2018058873	(73) BASF Corporation	(47) 12.07.2023
11.10.2018	(72) WASSERMANN, Knut	(22) 17.07.2020
(22) 06.04.2018	CRAVILLON, Janosch	

(54) TWO STROKE HIGH PERFORMANCE PISTON PUMP ENGINE	(51) F02C 7/277 F02C 7/32 F02C 7/36 F16D 9/08	(31) 201620433790 U (32) 12.05.2016 (33) China
(73) Gustafsson, Fredrik	(11) EP3882447	(51) F02D 41/38
(72) Gustafsson, Fredrik	(21) EP21158790.2	F02D 41/20
(31) 1930242	(47) 12.07.2023	F02M 55/02
(32) 01.08.2019	(22) 23.02.2021	F02M 63/00
(33) Sweden	(54) ENGINE STARTER WITH A DECOUPLER	F02M 63/02
(51) F02C 3/04 F02C 7/36 F02C 3/067 F02C 3/107 F01D 1/24 F01D 15/12	(73) Unison Industries LLC General Electric Company	(11) EP3712418
(11) EP2834466	(72) DRANSCHAK, David	(21) EP19164188.5
(21) EP13813554.6	RODRIGUEZ, Eliel	(47) 12.07.2023
(47) 12.07.2023	KARPIK, Roberto	(22) 20.03.2019
(87) US2013034539 09.01.2014	NAYAK, Subrata	(54) METHOD FOR OPERATING A PRESSURE CONTROL VALVE, METHOD FOR OPERATING A FLUID SUPPLY SYSTEM AND DEVICE FOR OPERATING A FLUID SUPPLY SYSTEM
(22) 29.03.2013	PATIL, Sharad	(73) Vitesco Technologies GmbH
(54) GEARED TURBOFAN WITH THREE TURBINES WITH FIRST TWO CO-ROTATING AND THIRD ROTATING IN AN OPPOSED DIRECTION	MEYERS, Shiloh	(72) Chia, Tet Kong Brian
(73) Raytheon Technologies Corporation	(31) 43329720	(51) F02F 1/00
(72) SCHWARZ, Frederick M. KUPRATIS, Daniel Bernard	(32) 19.03.2020	F02F 5/00
(31) 201213437290	(33) Poland	F16J 9/26
(32) 02.04.2012	(51) F02C 7/32 B64D 27/24	C23C 14/06
(33) United States of America	F01D 9/06	F16J 10/04
(51) F02C 6/00 F02C 7/32 H02K 7/18 B64D 27/24 F01D 5/10	F01D 15/10	(11) EP4015809
(11) EP3500743	F01D 25/16	(21) EP20904013.8
(21) EP17805305.4	F04D 25/06	(47) 12.07.2023
(47) 12.07.2023	F02K 5/00	(87) JP2020043244 24.06.2021
(87) US2017047110 01.03.2018	(11) EP3500744	(22) 19.11.2020
(22) 16.08.2017	(21) EP17847742.8	(54) COMBINATION OF CYLINDER AND PISTON RING
(54) GAS TURBINE ENGINE WITH AN EMBEDDED ELECTRIC MACHINE	(47) 12.07.2023	(73) Kabushiki Kaisha Riken
(73) General Electric Company	(87) US2017046190 12.04.2018	(72) SHINOHARA, Akio
(72) NIERGARTH, Daniel Alan	(22) 10.08.2017	(31) 2019227759
GEMIN, Paul Robert	(54) EMBEDDED ELECTRIC MACHINE	(32) 17.12.2019
MILLER, Brandon Wayne	(73) General Electric Company	(33) Japan
VONDRELL, Randy M.	(72) MILLER, Brandon Wayne	(51) F02F 1/24 H01T 13/08 H01T 13/16
KUPISZEWSKI, Thomas	KUPISZEWSKI, Thomas	(11) EP2715098
(31) 201615242827	VONDRELL, Randy M.	(21) EP12727285.4
(32) 22.08.2016	GEMIN, Paul Robert	(47) 12.07.2023
(33) United States of America	(31) 201615242811	(87) EP2012002103 06.12.2012
(51) F02C 7/25	(32) 22.08.2016	(22) 16.05.2012
(11) EP3976949	(33) United States of America	(54) ARRANGEMENT OF A SPARK PLUG IN A CYLINDER OF AN INTERNAL COMBUSTION ENGINE OF A VEHICLE
(21) EP20740701.6	(51) F02C 9/00 G05B 13/02	(73) Volkswagen Aktiengesellschaft
(47) 12.07.2023	(11) EP3715608	(72) SONDER, Claudio-Sebastian
(87) FR2020050779 03.12.2020	(21) EP19165521.6	STOLLE, Martin
(22) 12.05.2020	(47) 12.07.2023	BIRKIGT, Andreas
(54) FIRE WALL AND METHOD FOR OPENING SAME	(22) 27.03.2019	HENTSCHEL, Lars
(73) SAFRAN AIRCRAFT ENGINES	(54) MACHINE CONTROL BASED ON AUTOMATED LEARNING OF SUBORDINATE CONTROL SKILLS	(31) 102011102620
(72) DAUTREPPE, Frédéric	(73) Siemens Aktiengesellschaft	(32) 27.05.2011
POU, Romain, Harold, Patrice	(72) Weber, Marc Christian	(33) Germany
DUFOUR, Bertrand, Romain, Adrien	Hein, Daniel	(51) F02F 7/00
GOUPIL, Frédéric, Jacques, Eugène	Mosandl, Judith	F01L 1/047
(31) 1905651	Udluft, Steffen	F01L 1/14
(32) 28.05.2019	(51) F02D 9/10 F02D 11/10	F01L 1/18
(33) France	(11) EP3244041	F02F 1/00
	(21) EP17169845.9	(11) EP3779163
	(47) 12.07.2023	(21) EP18912218.7
	(22) 08.05.2017	(47) 12.07.2023
	(54) THROTTLE	(87) JP2018013847
	(73) Vitesco Technologies GmbH	
	(72) Wang, Qin	
	Cheng, Dong	
	Zhu, Wei	

03.10.2019	(73) SAFRAN AIRCRAFT ENGINES	(22) 17.04.2018
(22) 30.03.2018	(72) LAMBERT, Olivier, Arnaud, Fabien	(54) VALVE FOR AN INTERNAL COMBUSTION ENGINE
(54) ENGINE	AMOEDO, Simon, José, Pierre	(73) Ford-Werke GmbH
(73) HONDA MOTOR CO., LTD.	TELMAN, Cyrille	Pierburg GmbH
(72) KASHIMA, Soji	VINCENT, Pierre	(72) KEMMERLING, Jörg
KIURA, Toshiro	(31) 1904664	FRIEDERICHS, Hanno
TOKUBI, Kota	(32) 03.05.2019	VIERKOTTEN, Dirk
(51) F02F 7/00	(33) France	KINDL, Helmut
F02F 1/00	(51) F02K 1/72	KUSKE, Andreas
(11) EP3779164	B29C 70/08	SOMMERHOFF, Franz Arnd
(21) EP18912664.2	B29C 70/42	SMILJANOVSKI, Vanco
(47) 12.07.2023	(11) EP3726038	VIGILD, Christian
(87) JP2018013832	(21) EP20170062.2	SUTTY, Patrick
03.10.2019	(47) 12.07.2023	(31) 102017109062
(22) 30.03.2018	(22) 17.04.2020	(32) 27.04.2017
(54) ENGINE	(54) METHOD FOR MANUFACTURING A GRID FOR A THRUST REVERSER	(33) Germany
(73) HONDA MOTOR CO., LTD.	(73) HUTCHINSON	(51) F02M 37/22
(72) KASHIMA, Soji	(72) GAW, Kevin O'Brien	B01D 36/00
TOKUBI, Kota	RIETSCH, Jean-Christophe	(11) EP3682103
KIURA, Toshiro	PATILLAUT, Thomas	(21) EP18785436.9
(51) F02G 1/055	GUILLAUME, Basile	(47) 12.07.2023
(11) EP3973167	(31) 1904127	(87) IB2018057053
(21) EP20733878.1	(32) 17.04.2019	21.03.2019
(47) 12.07.2023	(33) France	(22) 14.09.2018
(87) US2020033717	(51) F02K 9/48	(54) WATER SEPARATION GROUP
26.11.2020	(11) EP3973170	(73) Ufi Filters s.p.a.
(22) 20.05.2020	(21) EP20737259.0	(72) GIRONDI, Giorgio
(54) SYSTEM AND APPARATUS FOR ENERGY CONVERSION	(47) 12.07.2023	(31) 201700103354
(73) General Electric Company	(87) FR2020050842	(32) 15.09.2017
(72) AKWARA, Aigbedion	26.11.2020	(33) Italy
WAUN, Scott Douglas	(22) 20.05.2020	(51) F02M 43/04
VANDEVOORDE, Kevin Michael	(54) IMPROVED VAPORIZATION SYSTEM FOR A SPACE LAUNCHER	F02M 47/02
MOOK, Joshua Tyler	(73) ArianeGroup SAS	(11) EP3951160
GANSLER, Michael Thomas	(72) PENIN, Loic	(21) EP21185066.4
SENNOUN, Mohammed El Hacin	DURI, Davide	(47) 12.07.2023
THOMPSON, Mary Kathryn	BRANDELY, Anaïs	(22) 12.07.2021
BELLARDI, Jason Joseph	(31) 1905433	(54) LARGE DIESEL ENGINE AND FUEL INJECTION VALVE AND FUEL INJECTION METHOD FOR A LARGE DIESEL ENGINE
OSAMA, Mohamed	(32) 23.05.2019	(73) Winterthur Gas & Diesel AG
NOTARNICOLA, Michael Robert	(33) France	(72) Yildirim, Turhan
(31) 201962850701 P	(51) F02M 21/02	(31) 20189462
201962850692 P	F02M 47/02	(32) 04.08.2020
201962850678 P	(11) EP3980639	(33) European Patent Office (EPO)
201962850623 P	(21) EP20730999.8	(51) F02M 47/02
201962850599 P	(47) 12.07.2023	F02M 63/00
201916418129	(87) EP2020064760	(11) EP3794227
(32) 21.05.2019	10.12.2020	(21) EP19729488.7
21.05.2019	(22) 27.05.2020	(47) 12.07.2023
21.05.2019	(54) FUEL INJECTOR, AND METHOD FOR OPERATING A FUEL INJECTOR	(87) EP2019064465
21.05.2019	(73) Robert Bosch GmbH	12.12.2019
21.05.2019	(72) WESSNER, Jochen	(22) 04.06.2019
(33) United States of America	LEIBSSLE, Benedikt	(54) SEAT PLATE FOR AN INJECTOR
United States of America	KATZ, Martin	(73) Liebherr-Components Deggendorf GmbH
United States of America	(31) 102019208332	(72) KÖGEL, Verena
United States of America	(32) 07.06.2019	SCHÖFBÄNKER, Norbert
United States of America	(33) Germany	(31) 102018113662
(51) F02K 1/38	(51) F02M 26/21	(32) 08.06.2018
F02K 1/48	F02D 9/10	(33) Germany
(11) EP3963196	F02M 26/64	(51) F02M 61/14
(21) EP20715886.6	F02M 26/70	F02M 61/16
(47) 12.07.2023	F02D 9/02	(11) EP3279464
(87) EP2020059584	(11) EP3615787	(21) EP16182709.2
12.11.2020	(21) EP18718435.3	(47) 12.07.2023
(22) 03.04.2020	(47) 12.07.2023	(22) 04.08.2016
(54) TURBINE ENGINE SEPARATE FLOW MIXER	(87) EP2018059749	
	01.11.2018	

(54) A FUEL INJECTION ASSEMBLY FOR AN INTERNAL COMBUSTION ENGINE	(33) Germany	(54) METHOD FOR COMPUTER-IMPLEMENTED CONTROLLING OF ONE OR MORE WIND TURBINES IN A WIND FARM
(73) Vitesco Technologies GmbH	(51) F03D 1/06	(73) Siemens Gamesa Renewable Energy A/S
(72) Falaschi, Filippo	(11) EP3969741	(72) GOLLNICK, Bert
Puccini, Andrea	(21) EP20727205.5	(31) 20164173
Carli, Daniele	(47) 12.07.2023	(32) 19.03.2020
Pasquali, Marco	(87) EP2020063679	(33) European Patent Office (EPO)
	26.11.2020	(51) F03D 9/00
(51) F02P 1/08	(22) 15.05.2020	F03D 9/25
F02P 11/02	(54) ROTOR BLADE AND WIND TURBINE	(11) EP3500753
(11) EP2602477	(73) Wobben Properties GmbH	(21) EP17755178.5
(21) EP12008127.8	(72) MAAß, Hauke	(47) 12.07.2023
(47) 12.07.2023	MESSING, Ralf	(87) EP2017071017
(22) 05.12.2012	STEMBERG, Jochen	22.02.2018
(54) Ignition circuit	(31) 102019113080	(22) 21.08.2017
(73) Andreas Stihl AG & Co. KG	(32) 17.05.2019	(54) METHOD FOR CONTROLLING A WIND TURBINE
(72) Buck, Ernst	(33) Germany	(73) Wobben Properties GmbH
Däschner, Heiko	(51) F03D 1/06	(72) DR. BROMBACH, Johannes
Kinnen, Arno	F03D 80/00	DR. SCHUBERT, Katharina
(31) 102011120462	(11) EP3536947	(31) 102016115431
(32) 07.12.2011	(21) EP18160747.4	(32) 19.08.2016
(33) Germany	(47) 12.07.2023	(33) Germany
(51) F03B 17/00	(22) 08.03.2018	(51) F03D 15/10
(11) EP3825542	(54) PROTECTIVE COVER FOR PROTECTING A LEADING EDGE OF A WIND TURBINE BLADE	(11) EP4048889
(21) EP21162758.3	(73) Siemens Gamesa Renewable Energy A/S	(21) EP20788706.8
(47) 12.07.2023	(72) Kratmann, Kasper Koops	(47) 12.07.2023
(22) 16.03.2021	Ferret Gasch, Oriol	(87) DK2020050267
(54) HYDROELECTRIC POWER STATION, HYDROELECTRIC POWER SYSTEM AND METHOD FOR THE GENERATION OF ELECTRICAL ENERGY FROM HYDROELECTRIC POWER	(51) F03D 3/06	29.04.2021
(73) Beqo, Artur	(11) EP3983669	(22) 02.10.2020
(72) Beqo, Artur	(21) EP20732215.7	(54) ASSEMBLING OR DISASSEMBLING A GEAR ASSEMBLY OF A WIND TURBINE
	(47) 12.07.2023	(73) VESTAS WIND SYSTEMS A/S
(51) F03D 1/06	(87) EP2020066257	(72) LUBIAN BERRECO, Xose
(11) EP3066337	17.12.2020	YAMBEH YAMBAHA, Noel
(21) EP14789996.7	(22) 12.06.2020	(31) PA201970660
(47) 12.07.2023	(54) WIND TURBINE AND ENERGY CONVERSION FACILITY COMPRISING SUCH A WIND TURBINE	(32) 23.10.2019
(87) EP2014002864	(73) Alizen Energie Durable	(33) Denmark
07.05.2015	(72) CHAVEROT, Pierre	(51) F03D 17/00
(22) 23.10.2014	(31) 1906308	(11) EP3604803
(54) ROTOR BLADE OF A WIND TURBINE AND A WIND TURBINE	(32) 13.06.2019	(21) EP18187377.9
(73) Siemens Gamesa Renewable Energy Service GmbH	(33) France	(47) 12.07.2023
(72) ERBSLÖH, Sascha	(51) F03D 7/02	(22) 03.08.2018
KORJAHN, Christoph Matthias	(11) EP3830414	(54) METHOD FOR OPERATING A DRIVETRAIN AND PROGRAM PRODUCT
PETSCHKE, Marc	(21) EP19744622.2	(73) Universität Stuttgart
(31) 102014203442	(47) 12.07.2023	(72) Zeljana, Besic
102013222375	(87) DK2019050229	Bernd, Bertsche
(32) 26.02.2014	06.02.2020	Yvonne, Gretzinger
04.11.2013	(22) 16.07.2019	(51) F03D 17/00
(33) Germany	(54) NOISE REDUCTION IN A WIND TURBINE WITH HINGED BLADES	F03D 80/30
Germany	(73) VESTAS WIND SYSTEMS A/S	(11) EP3961031
(51) F03D 1/06	(72) ANDERSEN, Peter Bjørn	(21) EP20192742.3
(11) EP3870839	NIELSEN, Thomas S. Bjertrup	(47) 12.07.2023
(21) EP19794943.1	(31) PA201870512	(22) 25.08.2020
(47) 12.07.2023	(32) 01.08.2018	(54) MONITORING SYSTEM FOR A WIND TURBINE BLADE, WIND TURBINE ARRANGEMENT AND METHOD FOR MONITORING OF A WIND TURBINE BLADE
(87) EP2019078756	(33) Denmark	(73) Siemens Gamesa Renewable Energy A/S
30.04.2020	(51) F03D 7/04	
(22) 22.10.2019	(11) EP4097351	
(54) ROTOR BLADE EXTENSION	(21) EP21711792.8	
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	(47) 12.07.2023	
(72) LINDERMANN, Matthias	(87) EP2021055525	
ROSEMEIER, Malo	23.09.2021	
BÄTGE, Moritz	(22) 04.03.2021	
(31) 102018218067		
(32) 22.10.2018		

(72) Ponnada, Rajesh Sri Markandeya	(54) NEUTRALIZER FOR AN ION THRUSTER OF A SPACECRAFT	(11) EP3885578
(51) F03D 80/00	(73) ENPULSION GmbH	(21) EP21164173.3
H02K 7/18	(72) KOCH, Quirin	(47) 12.07.2023
H02K 15/00	(72) KREJCI, David	(22) 23.03.2021
(11) EP3908749		(54) AIR COMPRESSOR
(21) EP20700545.5	(51) F04B 15/02	(73) Max Co., Ltd.
(47) 12.07.2023	(11) EP3837438	(72) TSUTSUI, Tomohide
(87) DK2020050006	(21) EP19755623.6	ANDO, Teruaki
16.07.2020	(47) 12.07.2023	(31) 2020050714
(22) 09.01.2020	(87) EP2019072006	(32) 23.03.2020
(54) LOCKING MECHANISM FOR A WIND TURBINE GENERATOR	20.02.2020	(33) Japan
(73) VESTAS WIND SYSTEMS A/S	(22) 16.08.2019	(51) F04B 41/02
(72) MEINEKAT, Ulrich	(54) SWIVEL TUBE FOR TWO-CYLINDER PUMPS FOR VISCOUS LIQUIDS	F04B 49/06
GÜNDÜZ, Mustafa	(73) Putzmeister Engineering GmbH	F04B 49/08
MONGEAU, Peter	(72) WEIMER, Ralf	F04B 49/10
MARCIN, Janota	HÄFNER, Jens	F04B 49/20
MANNIK, Henrik Zaar	(31) 102018119973	(11) EP3921543
(31) PA201970068	(32) 16.08.2018	(21) EP20839357.9
201962790565 P	(33) Germany	(47) 12.07.2023
(32) 30.01.2019	(51) F04B 35/00	(87) EP2020087998
10.01.2019	F04B 35/01	15.07.2021
(33) Denmark	F04B 39/12	(22) 29.12.2020
United States of America	F04B 39/14	(54) COMPRESSOR SYSTEM AND METHOD FOR OPERATING A COMPRESSOR SYSTEM ACCORDING TO THE COMPRESSED-AIR DEMAND OF AN OPERATING STATE OF THE VEHICLE
(51) F03D 80/50	(11) EP3877651	(73) KNORR-BREMSE Systeme für Schienenfahrzeuge GmbH
B08B 1/00	(21) EP19797209.4	(72) WINKLER, Michael
B08B 3/04	(47) 12.07.2023	SCHMID, Martin
(11) EP3587808	(87) EP2019079189	HERDEN, Marc-Oliver
(21) EP18757585.7	14.05.2020	(31) 102020100296
(47) 12.07.2023	(22) 25.10.2019	(32) 09.01.2020
(87) JP2018007197	(54) HOUSING AND COMPRESSOR AND COMPRESSOR UNIT HAVING A HOUSING OF SAID TYPE	(33) Germany
30.08.2018	(73) KNORR-BREMSE Systeme für Nutzfahrzeuge GmbH	(51) F04B 43/00
(22) 27.02.2018	(72) MELLAR, Jörg	F16J 3/02
(54) METHOD FOR PERFORMING MAINTENANCE ON A WIND TURBINE BLADE	MAUPAS, Oliver	F16K 7/12
(73) Lebo Robotics, Inc.	MARESCOT, Jean-Baptiste	G06K 19/07
(72) ITO, Sumio	GRINDEL, Daniel	(11) EP3604809
TAKEI, Toshinobu	SEURIN, Laurent	(21) EP18187187.2
HAMAMURA, Keitaro	CHAMPON, Guillaume	(47) 12.07.2023
KANAWA, Daichi	(31) 102018128111	(22) 03.08.2018
HAYASHI, Shunsuke	(32) 09.11.2018	(54) MEMBRANE WITH ELECTRONIC COMPONENT
(31) 2017142289	(33) Germany	(73) SISTO Armaturen S.A.
2017035323	(51) F04B 35/04	(72) Britz, Robert
(32) 21.07.2017	F04B 39/12	(51) F04B 43/12
27.02.2017	F04B 39/14	F04B 53/16
(33) Japan	G01L 7/16	F04B 53/04
Japan	G01L 19/06	F04B 23/06
(51) F03G 7/06	(11) EP3839257	A61B 18/12
(11) EP3676494	(21) EP20212314.7	(11) EP3903000
(21) EP18770089.3	(47) 12.07.2023	(21) EP19839578.2
(47) 12.07.2023	(22) 07.12.2020	(47) 12.07.2023
(87) IB2018056595	(54) AIR COMPRESSOR HAVING PRESSURE GAUGE	(87) US2019067468
07.03.2019	(73) Chou, Wen-San	02.07.2020
(22) 29.08.2018	Chou, Cheng-Hsien	(22) 19.12.2019
(54) SHAPE MEMORY BASED ACTUATOR	(72) Chou, Cheng-Hsien	(54) PUMP WITH CHANNELS AS FLUID GUIDES
(73) Almatech SA	Chou, Wen-San	(73) Avent, Inc.
(72) BLECHA, Luc	(31) 108147122	(72) BARRETT, Jennifer J.
PACIOTTI, Gabriel	(32) 20.12.2019	BROWN, Michael D.
(31) 17188787	(33) Taiwan, Chinese Taipei	WU, Kun-Chi
(32) 31.08.2017	(51) F04B 41/02	WANG, Ruoya
(33) European Patent Office (EPO)	F04B 35/04	DRIVER, Ken
(51) F03H 1/00	F04B 49/02	(31) 201816234836
(11) EP3892853	F04B 49/06	
(21) EP20168477.6	F04B 17/06	
(47) 12.07.2023	F04B 35/06	
(22) 07.04.2020		

(32) 28.12.2018	VINCK, Glenn	(32) 17.03.2010
(33) United States of America	COECKELBERGS, Joeri	(33) Japan
(51) F04C 2/08	(31) 201505072	(51) F04D 23/00
F04C 2/18	201562103723 P	F04D 25/06
(11) EP2935889	(32) 11.02.2015	F04D 29/62
(21) EP13826956.8	15.01.2015	(11) EP3571415
(47) 12.07.2023	(33) Belgium	(21) EP17701666.4
(87) IB2013060997	United States of America	(47) 12.07.2023
18.12.2014	(51) F04D 17/10	(87) EP2017051183
(22) 16.12.2013	F04D 29/057	26.07.2018
(54) GEARED HYDRAULIC MACHINE AND	F04D 29/051	(22) 20.01.2017
RELATIVE GEAR WHEEL	F04D 29/58	(54) FAN FOR AN INTERNAL COMBUSTION
(73) Danfoss Power Solutions S.r.l.	F04D 25/06	ENGINE
(72) MORSELLI, Mario Antonio	F16C 17/10	(73) Pierburg GmbH
(31) MI20122168	F16C 33/10	(72) GOTTER, Alexander
(32) 18.12.2012	F16C 37/00	RÖSGEN, Thomas
(33) Italy	(11) EP3613992	BOUTROS-MIKHAIL, Matthias
(51) F04C 2/18	(21) EP19192849.8	PAFFRATH, Holger
F04C 15/00	(47) 12.07.2023	(51) F04D 27/02
F16C 27/02	(22) 21.08.2019	F04D 29/52
F16C 15/00	(54) A TURBO COMPRESSOR HAVING A	F04D 29/68
(11) EP4073384	BEARING SLEEVE PROVIDED WITH	F04D 27/00
(21) EP20821209.2	AXIAL END CUTS	F04D 19/02
(47) 12.07.2023	(73) Danfoss A/S	(11) EP3054166
(87) EP2020085712	(72) COTE, Julien	(21) EP16153522.4
17.06.2021	BONNEFOI, Patrice	(47) 12.07.2023
(22) 11.12.2020	(31) 1857596	(22) 29.01.2016
(54) IMPROVED BUSHING ASSEMBLY AND	(32) 22.08.2018	(54) STALL REDUCTION IN A MULTISTAGE
POSITIVE DISPLACEMENT ROTARY	(33) France	COMPRESSOR
PUMP COMPRISING SAID BUSHING	(51) F04D 19/02	(73) Honeywell International Inc.
ASSEMBLY	F04D 29/02	(72) REYNOLDS, Bruce David
(73) Settima Meccanica S.R.L.	F04D 29/053	NOLCHEFF, Nick
(72) ROSSI, Manuele	F04D 29/26	(31) 201514612404
CERUTI, Andrea	F04D 29/32	(32) 03.02.2015
PICCIOTTI, Nicola	F01D 5/06	(33) United States of America
(31) 201900023832	(11) EP2549118	(51) F04D 29/12
(32) 12.12.2019	(21) EP11755906.2	F04D 29/14
(33) Italy	(47) 12.07.2023	F04D 29/58
(51) F04C 18/16	(87) JP2011001512	F16J 15/34
F04C 29/02	22.09.2011	(11) EP3677791
(11) EP3653882	(22) 15.03.2011	(21) EP18851425.1
(21) EP18207118.3	(54) AXIAL FLOW COMPRESSOR	(47) 12.07.2023
(47) 12.07.2023	(73) Kabushiki Kaisha Kobe Seiko Sho (Kobe	(87) JP2018030338
(22) 19.11.2018	Steel, Ltd.)	07.03.2019
(54) VIRTUAL SENSOR FOR THE WATER	Danish Technological Institute	(22) 15.08.2018
CONTENT IN OIL CIRCUIT	Tokyo Electric Power Company Holdings,	(54) SEAL SYSTEM
(73) Feiler, Wolfgang	Incorporated	(73) Ebara Corporation
(72) Feiler, Wolfgang	The Kansai Electric Power Co., Inc.	(72) HAYAKAWA, Junichi
(51) F04C 28/24	Johnson Controls Denmark ApS	YOSHIKAWA, Shigeru
F04C 29/12	(72) BABA, Yoshitaka	(31) 2017164280
F04C 25/02	IIZUKA, Koichiro	2017164279
F04C 28/28	FUJISAWA, Ryo	2017164278
F04C 29/00	TOSHIMA, Masatake	(32) 29.08.2017
(11) EP3245402	MADSBØLL, Hans	29.08.2017
(21) EP16712186.2	HAYASHI, Daisuke	29.08.2017
(47) 12.07.2023	KURASHIGE, Kazutaka	(33) Japan
(87) BE2016000003	AL-JANABI, Ziad	Japan
21.07.2016	SVARREGAARD-JENSEN, Christian	Japan
(22) 07.01.2016	NAKAYAMA, Yoshihiro	(51) F04D 29/22
(54) INLET VALVE AND VACUUM PUMP	JENSEN, Finn	F04D 1/06
PROVIDED WITH SUCH AN INLET	RASMUSSEN, Svend	(11) EP3271587
VALVE	MOLLER, Lars Bay	(21) EP16768970.2
(73) Atlas Copco Airpower, Naamloze	SAKURABA, Ichirou	(47) 12.07.2023
Vennootschap	SUTO, Kunihiko	(87) JP2016059789
(72) DESIRON, Andries	KRISTENSEN, Klaus Damgaard	29.09.2016
GORREBEECK, Niels	IDE, Satoshi	(22) 18.03.2016
GIELIS, Dries	SUGANO, Keiji	(54) IMPELLER FOR CENTRIFUGAL
DE BOCK, Andries	(31) 2010060579	PUMPS



(73) Ebara Corporation	(32) 23.07.2019	(32) 28.09.2018
(72) BALBO, Fabio	(33) Italy	(33) Japan
SAKIHAMA, Dai	(51) F04F 5/22	(51) F15B 11/16
MATTEAZZI, Mariano	F04F 5/46	B62D 5/07
GROPPO, Renato	F16K 15/02	F15B 11/17
OBUCHI, Masashi	F16K 15/08	(11) EP3635262
KUROIWA, So	F16K 15/14	(21) EP18728142.3
(31) VI20150081	F16K 27/02	(47) 12.07.2023
(32) 20.03.2015	F02M 35/10	(87) EP2018064163
(33) Italy	(11) EP3784939	13.12.2018
(51) F04D 29/44	(21) EP19793160.3	(22) 30.05.2018
F04D 17/10	(47) 12.07.2023	(54) PRESSURE SUPPLY DEVICE
(11) EP3712441	(87) US2019028726	(73) Hydac Systems & Services GmbH
(21) EP17931835.7	31.10.2019	(72) MÜTER, Matthias
(47) 12.07.2023	(22) 23.04.2019	(31) 102017005479
(87) JP2017041335	(54) A CHECK VALVE INSERT DEFINING	(32) 08.06.2017
23.05.2019	AN OPEN POSITION AND CHECK	(33) Germany
(22) 16.11.2017	VALVES HAVING SAME	(51) F16B 2/10
(54) CENTRIFUGAL COMPRESSOR AND	(73) Dayco IP Holdings, LLC	F16B 5/06
TURBO CHARGER EQUIPPED WITH	(72) SNOW, David	A47B 47/00
SAID CENTRIFUGAL COMPRESSOR	FLETCHER, David, E.	F16B 21/16
(73) Mitsubishi Heavy Industries Engine &	DUFFIELD, Chester, E., III	(11) EP3865716
Turbocharger, Ltd.	GILMER, Matthew, C.	(21) EP21155221.1
(72) HAYASHI, Yoshihiro	(31) 201862661165 P	(47) 12.07.2023
(51) F04D 29/46	(32) 23.04.2018	(22) 04.02.2021
F04D 29/42	(33) United States of America	(54) CLAMP FOR A DETACHABLE
F01D 17/14	(51) F15B 3/00	CONNECTION OF CONSTRUCTION
F02B 37/22	(11) EP3885583	ELEMENTS
F16K 3/03	(21) EP21164025.5	(73) Brosche, Mario
(11) EP3551892	(47) 12.07.2023	(72) Brosche, Mario
(21) EP17826001.4	(22) 22.03.2021	(31) 102020201853
(47) 12.07.2023	(54) ARRANGEMENT WITH PRESSURE	(32) 14.02.2020
(87) US2017064580	BOOSTER	(33) Germany
14.06.2018	(73) SMC Corporation	(51) F16B 5/02
(22) 05.12.2017	(72) TAKAKUWA, Youji	F16B 1/00
(54) COMPRESSOR WITH VARIABLE	MONDEN, Kengo	(11) EP4053419
COMPRESSOR INLET	(31) 2020053573	(21) EP22159158.9
(73) BorgWarner Inc.	(32) 25.03.2020	(47) 12.07.2023
(72) WERNER, Juergen	(33) Japan	(22) 28.02.2022
MUENZ, Stefan	(51) F15B 5/00	(54) FASTENING STRUCTURE, ALUMINUM
HENKE, Waldemar	F15B 13/00	WIRING MATERIAL, AND METHOD
TOMM, Uwe	(11) EP2728201	OF MANUFACTURING FASTENING
HOECKER, Patric	(21) EP13004694.9	STRUCTURE
KARSTADT, Sascha	(47) 12.07.2023	(73) Yazaki Corporation
WEISKE, Sascha	(22) 27.09.2013	(72) Tajima, Kazushige
SPINNER, Gerd	(54) Electropneumatic adjusting device and	Ikeya, Hayato
(31) 102017209223	electropneumatic assembly	Yoshinaga, Satoru
102016123989	(73) Samson Aktiengesellschaft	Nakabayashi, Rie
(32) 31.05.2017	(72) Valentin-Rumpel, Frank	(31) 2021032028
09.12.2016	(31) 102012021387	(32) 01.03.2021
(33) Germany	(32) 31.10.2012	(33) Japan
Germany	(33) Germany	(51) F16B 5/02
(51) F04F 1/06	(51) F15B 11/02	F16B 13/08
F15B 3/00	E02F 9/22	E03C 1/32
F15B 11/072	F15B 11/17	E03D 11/14
(11) EP4004381	F15B 15/00	(11) EP3792505
(21) EP20750743.5	(11) EP3835597	(21) EP19197260.3
(47) 12.07.2023	(21) EP19865950.0	(47) 12.07.2023
(87) IB2020056789	(47) 12.07.2023	(22) 13.09.2019
28.01.2021	(87) JP2019034476	(54) THREADED UNIT FOR A SANITARY
(22) 20.07.2020	02.04.2020	MOUNTING STRUCTURE
(54) HYDRAULIC-GAS SYSTEM FOR	(22) 02.09.2019	(73) Geberit International AG
PRESSURISING A WORKING FLUID	(54) HYDRAULIC DRIVE DEVICE FOR	(72) BÄNZIGER, David
(73) STI Srl	TRAVELING WORK MACHINE	KOSARNIG, Rolf
(72) ZENONI, Nicola	(73) KOBELCO CONSTRUCTION	(51) F16B 25/00
TONDOLO, Flavio	MACHINERY CO., LTD.	F16B 25/10
MONTAGNA, Emanuele	(72) UEDA, Koji	F16B 5/02
(31) 201900012627	(31) 2018184070	

F16B 23/00	F16C 19/38	CORNET, Vincent
(11) EP3875789	F16C 33/58	THIBAUT, François
(21) EP20207172.6	(11) EP3990791	(31) 1763098
(47) 12.07.2023	(21) EP20728930.7	(32) 22.12.2017
(22) 12.11.2020	(47) 12.07.2023	(33) France
(54) SCREW	(87) DE2020100431	(51) F16D 1/076
(73) Vertex Precision Industrial Corp.	30.12.2020	B60B 27/00
(72) CHEN, CHING-CHENG	(22) 18.05.2020	(11) EP2974883
(31) 109202463 U	(54) ROLLER BEARING ASSEMBLY FOR	(21) EP14764201.1
(32) 05.03.2020	DETERMINING LOADS	(47) 12.07.2023
(33) Taiwan, Chinese Taipei	(73) Schaeffler Technologies AG & Co. KG	(87) JP2014053404
(51) F16B 45/02	(72) HORNUNG, Marco	18.09.2014
F16B 1/00	NEUGEBAUER, Benedikt	(22) 14.02.2014
(11) EP3350462	HEIM, Jens	(54) BEARING DEVICE FOR WHEEL
(21) EP16784376.2	(31) 102019116999	(73) NTN Corporation
(47) 12.07.2023	(32) 25.06.2019	(72) NAGATA Tsutomu
(87) AT2016060051	(33) Germany	NORIMATSU Takayuki
16.03.2017	(51) F16C 25/08	(31) 2013147637
(22) 07.09.2016	F16C 27/04	2013114139
(54) HOOK IN CONJUNCTION WITH AN	F16H 57/028	2013058233
ELEMENT TO BE INSERTED INTO THE	F16H 57/039	2013049196
HOOK INTERIOR	(11) EP3994368	(32) 16.07.2013
(73) Easylic GmbH	(21) EP20734525.7	30.05.2013
(72) BERNDORFER, Wolfgang	(47) 12.07.2023	21.03.2013
KOLLER, Johannes	(87) EP2020067501	12.03.2013
(31) 5912015	14.01.2021	(33) Japan
(32) 10.09.2015	(22) 23.06.2020	Japan
(33) Austria	(54) BEARING ASSEMBLY FOR A WORM	Japan
(51) F16C 11/04	SHAFT	Japan
G09F 9/30	(73) Rollax GmbH & Co. KG	(51) F16D 3/2233
G06F 1/16	(72) EBKE, Andreas	F16D 3/2237
H04M 1/02	(31) 202019105133 U	F16D 3/224
(11) EP3889452	202019103700 U	(11) EP3927988
(21) EP20763640.8	(32) 17.09.2019	(21) EP20710801.0
(47) 12.07.2023	05.07.2019	(47) 12.07.2023
(87) CN2020075717	(33) Germany	(87) EP2020055153
03.09.2020	Germany	03.09.2020
(22) 18.02.2020	(51) F16C 35/067	(22) 27.02.2020
(54) ROTATING DEVICE, HOUSING AND	H02K 5/15	(54) CONSTANT VELOCITY SWIVEL JOINT
ELECTRONIC DEVICE	H02K 5/173	(73) Neapco Intellectual Property Holdings,
(73) GUANGDONG OPPO MOBILE	F16C 19/00	LLC
TELECOMMUNICATIONS CORP., LTD.	F16C 33/72	(72) KRINGS, Dominik
(72) CHENG, Jiao	(11) EP3835607	ARISTONDO ARRIZABALAGA, Juan
(31) 201910139449	(21) EP19214796.5	Agustin
(32) 25.02.2019	(47) 12.07.2023	(31) 102019105195
(33) China	(22) 10.12.2019	(32) 28.02.2019
(51) F16C 17/22	(54) ROTATING ELECTRIC MACHINE	(33) Germany
F16C 25/08	(73) Weg Equipamentos Eléctricos S.A.	(51) F16D 11/14
F16C 27/04	(72) LAFIN, Patrick	A01D 34/69
F16C 35/077	ADILSON PASSIG, Jhonatan	F16D 41/22
(11) EP3921555	VALENTINI, Jean Carlos	F16H 1/22
(21) EP19705458.8	(51) F16D 1/068	F16H 3/085
(47) 12.07.2023	F16D 21/06	F16H 3/093
(87) DK2019050046	F16D 25/0638	F16H 3/10
13.08.2020	(11) EP3728884	(11) EP4038288
(22) 07.02.2019	(21) EP18830815.9	(21) EP20793747.5
(54) ROTARY BEARING WITH A DAMPER,	(47) 12.07.2023	(47) 12.07.2023
A MOTOR AND A ROTARY ATOMIZER	(87) EP2018086169	(87) FR2020051706
COMPRISING SUCH BEARING, AND	27.06.2019	08.04.2021
THE USE OF SUCH BEARING	(22) 20.12.2018	(22) 29.09.2020
(73) GEA Process Engineering A/S	(54) WET CLUTCH DISC HOLDER, WET	(54) TRANSMISSION FOR PEDESTRIAN-
(72) NIELSEN, Jakob	CLUTCH MECHANISM HAVING SUCH	CONTROLLED WHEELED VEHICLE
HANSEN, Asger	A DISK HOLDER, AND METHOD	AND WHEELED VEHICLE EQUIPPED
LARSEN, Jon Steffen	FOR MANUFACTURING SUCH DISC	WITH SUCH A TRANSMISSION
(51) F16C 19/22	HOLDER	(73) France Reducteurs
F16C 19/52	(73) VALEO EMBRAYAGES	(72) DIDIER, Nicolas
F16C 41/00	(72) DOLE, Arnaud	BRU, Pierre
F16C 19/36	ARHAB, Rabah	(31) 1910942

(32) 03.10.2019	Japan	(11) EP3812608
(33) France	(51) F16D 65/00	(21) EP19205124.1
(51) F16D 27/06	(11) EP3953599	(47) 12.07.2023
(11) EP3577362	(21) EP20716585.3	(22) 24.10.2019
(21) EP18747773.2	(47) 12.07.2023	(54) MOUNT AND METHOD FOR
(47) 12.07.2023	(87) IB2020052810	ASSEMBLING A MOUNT
(87) US2018012798	15.10.2020	(73) Vibracoustic Nantes SAS
09.08.2018	(22) 25.03.2020	(72) Kieffer, Jerome
(22) 08.01.2018	(54) CALIPER BODY AND BRAKE CALIPER	Geslain, Antoine
(54) RECIPROCATING	WITH SAID BODY	(51) F16F 7/12
ELECTROMECHANICAL APPARATUS	(73) Brembo S.p.A.	B29C 45/14
(73) Means Industries, Inc.	(72) MILANESI, Andrea	B60R 19/24
(72) KIMES, John W.	BARALE, Pietro	B60R 19/26
(31) 201715712651	(31) 201900005672	B62D 25/08
201715712635	(32) 12.04.2019	B62D 25/20
201762453578 P	(33) Italy	F16F 7/00
(32) 22.09.2017	(51) F16D 65/095	(11) EP3690274
22.09.2017	F16D 65/092	(21) EP18858466.8
02.02.2017	(11) EP3875798	(47) 12.07.2023
(33) United States of America	(21) EP19879787.0	(87) JP2018031312
United States of America	(47) 12.07.2023	28.03.2019
United States of America	(87) JP2019038422	(22) 24.08.2018
(51) F16D 41/067	07.05.2020	(54) SHOCK-ABSORBING MEMBER AND
F16H 57/04	(22) 27.09.2019	METHOD FOR MANUFACTURING
(11) EP4012213	(54) SHIM, SHIM MOUNTING METHOD,	SAME
(21) EP21209219.1	AND PAD ASSEMBLY FOR DISC	(73) Toyota Shatai Kabushiki Kaisha
(47) 12.07.2023	BRAKE	(72) MIURA Toshihisa
(22) 19.11.2021	(73) Akebono Brake Industry Co., Ltd.	(31) 2017183851
(54) FREE WHEEL PROVIDED WITH	(72) OKADA, Yuichi	(32) 25.09.2017
A LUBRICATION BARRIER WITH	YAMAZAKI, Akihiko	(33) Japan
VARIABLE OPENING	HARIGAI, Yoshikazu	(51) F16F 9/14
(73) Airbus Helicopters	SHINDO, Takayuki	(11) EP3907418
(72) ESCOFFIER, Adrien	(31) 2018205828	(21) EP20172769.0
ROBERT, Sébastien	(32) 31.10.2018	(47) 12.07.2023
(31) 2012952	(33) Japan	(22) 04.05.2020
(32) 10.12.2020	(51) F16D 65/12	(54) A DASHPOT FOR DAMPING A
(33) France	F16D 65/02	CLOSING MOVEMENT OF A HINGED
(51) F16D 41/067	(11) EP3567269	CLOSURE MEMBER
F16H 57/04	(21) EP19173644.6	(73) Locinox
(11) EP4012214	(47) 12.07.2023	(72) TALPE, Joseph
(21) EP21209264.7	(22) 09.05.2019	(51) F16F 9/34
(47) 12.07.2023	(54) METHOD FOR COATING PARTS OF	F16F 9/48
(22) 19.11.2021	VEHICLE BRAKES, BRAKE DISCS AND	F16F 9/46
(54) FREE WHEEL PROVIDED WITH	METHOD FOR PRODUCING A BRAKE	(11) EP3420244
A LUBRICATION BARRIER WITH	DISC	(21) EP17706461.5
VARIABLE GEOMETRY	(73) Zermat Zerspanungstechnik GmbH & Co.	(47) 12.07.2023
(73) Airbus Helicopters	KG	(87) EP2017053894
(72) ROBERT, Sébastien	(72) Styrnol, Andreas	31.08.2017
ESCOFFIER, Adrien	(31) 102018004270	(22) 21.02.2017
(31) 2012965	102018003799	(54) 2-WAY SOFT OPENING VALVE
(32) 10.12.2020	(32) 29.05.2018	ARRANGEMENT FOR A SHOCK
(33) France	09.05.2018	ABSORBER
(51) F16D 41/07	(33) Germany	(73) Öhlins Racing AB
F16D 43/18	Germany	(72) HOVÉN, Arnold
(11) EP3767123	(51) F16D 65/56	(31) 16156682
(21) EP18909849.4	(11) EP4013974	(32) 22.02.2016
(47) 12.07.2023	(21) EP19756338.0	(33) European Patent Office (EPO)
(87) JP2018047532	(47) 12.07.2023	(51) F16F 9/53
19.09.2019	(87) EP2019071988	B60T 1/08
(22) 25.12.2018	25.02.2021	(11) EP3737873
(54) ONE-WAY CLUTCH	(22) 16.08.2019	(21) EP19702336.9
(73) Tsubakimoto Chain Co.	(54) DISC BRAKE WITH ADJUSTING	(47) 12.07.2023
(72) SHIMANAKA, Yoshihito	SPINDLE	(87) EP2019050592
(31) 2018126114	(73) ZF CV Systems Europe BV	18.07.2019
2018043829	(72) MITTENDORF, Roman-Marius	(22) 10.01.2019
(32) 02.07.2018	STUMPF, Martin	(54) MAGNETORHEOLOGICAL BRAKE
12.03.2018	(51) F16F 1/38	DEVICE
(33) Japan		(73) INVENTUS Engineering GmbH

(72) BATTLOGG, Stefan	(11) EP3559508	(22) 19.01.2021
(31) 102018100390	(21) EP17884649.9	(54) SPINDLE DRIVE
(32) 10.01.2018	(47) 12.07.2023	(73) STABILUS GmbH
(33) Germany	(87) US2017044512	(72) Keßler, Jonathan
(51) F16F 13/10	28.06.2018	Bochen, Jan
(11) EP2960543	(22) 28.07.2017	Hillen, Jörg
(21) EP15168732.4	(54) HIGH EFFICIENCY, HIGH OUTPUT	Theis, Christof
(47) 12.07.2023	TRANSMISSION	(31) 102020101771
(22) 21.05.2015	(73) Eaton Cummins Automated Transmission	(32) 24.01.2020
(54) DECOUPLED HYDRAULIC SUPPORT	Technologies, LLC	(33) Germany
(73) Vibracoustic SE	(72) WHITAKER, James, Lee	(51) F16H 37/04
(72) Holz, Roland	WADAS, David, L.	F16H 61/00
Beckmann, Wolfgang	PETERSON, Steven, Michael	F16H 61/688
Lobmüller, Günter	PAULS, Ryan	(11) EP3742025
Farrenkopf, Peter	WANG, Yeidei	(21) EP20175883.6
(31) 102014108840	FURNER, Joseph, Paul	(47) 12.07.2023
(32) 24.06.2014	PETERSON, Paul	(22) 21.05.2020
(33) Germany	MAURER, Adam, Christopher	(54) METHOD FOR MANAGING A BRAKE-
(51) F16G 5/06	WOTA, Andrzej	TO-CLUTCH FUNCTIONALITY IN A
F16G 5/08	SMITH, Carl, Christopher	DCT TRANSMISSION FOR AN OFF-
(11) EP4004400	KAWALE, Sujay	ROAD VEHICLE
(21) EP20757015.1	CHEN, Sipei	(73) CNH Industrial Italia S.p.A.
(47) 12.07.2023	REINOEHL, Troy, Scott	(72) Inversani, Alessio
(87) US2020043348	MCCLELLAN, Clinton, Lee	Guidetti, Marco
28.01.2021	FERNALD, Paige, Elizabeth	Berselli, Alberto
(22) 23.07.2020	GRIFFITHS, Justin, Keith	Petrigliano, Rocco
(54) CENTER CORD-LINE V-BELT	MCGOVERN, Kevin	(31) 201900007108
(73) Gates Corporation	WINK, Carlos, H.	(32) 22.05.2019
(72) DUTTON, Mark L.	BUSDIECKER, Matthew, R.	(33) Italy
SOUTH, Bobbie E.	DEBOER, Christopher	(51) F16H 41/24
BUCHHOLZ, William	SMITH, Timothy, Scott	H02K 7/14
SEDLACEK, Douglas R.	MCKENZIE, Ian, Daniel	F16D 3/50
(31) 201962877763 P	WILSON, Paul	B60K 6/36
(32) 23.07.2019	HAWARDEN, Jeff	B60K 6/40
(33) United States of America	CONNOLLY, Thomas	B60K 6/48
(51) F16H 1/32	JACKSON, Graeme, Andrew	B60K 6/54
H02K 7/116	DAVID, William, A.	B60L 50/16
F16H 1/46	SHEEN, Benjamin, S.	F16D 11/14
F16H 57/08	CHIMNER, Christian	F16D 33/18
F16H 57/00	(31) 201762465021 P	H02K 7/108
F16H 55/14	201662438201 P	H02K 7/00
F16H 55/17	(32) 28.02.2017	B60K 6/387
F16H 57/02	22.12.2016	B60K 6/405
F16H 1/28	(33) United States of America	F16H 45/02
(11) EP3959457	United States of America	(11) EP3904727
(21) EP20815558.0	(51) F16H 3/66	(21) EP20781755.2
(47) 12.07.2023	F16D 23/06	(47) 12.07.2023
(87) CN2020092655	F16H 63/30	(87) JP2020014032
03.12.2020	F16H 61/02	08.10.2020
(22) 27.05.2020	(11) EP4045818	(22) 27.03.2020
(54) GEARBOX AND DRIVING DEVICE	(21) EP20797690.3	(54) VEHICLE DRIVE DEVICE
USING THE SAME	(47) 12.07.2023	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
(73) Johnson Electric International AG	(87) EP2020079280	AISIN CORPORATION
(72) TA, Jingning	22.04.2021	(72) SHIMIZU, Ken
JI, Baofeng	(22) 16.10.2020	IKEMURA, Masashi
ZHAO, Yongjun	(54) TWO-SPEED GEARBOX FOR AN	TAN, Guodong
LI, Qiumei	ELECTRIC DRIVE SYSTEM, AND	OTA, Hiroshi
(31) 201910462384	DRIVE SYSTEM COMPRISING SUCH A	OKAZAWA, Ren
(32) 30.05.2019	TWO-SPEED GEARBOX	OKI, Takao
(33) China	(73) Höhn GmbH	(31) 2019067566
(51) F16H 3/093	(72) HÖHN, Bernd-Robert	(32) 29.03.2019
F16H 61/06	(31) 102019128160	(33) Japan
F16H 61/08	(32) 18.10.2019	(51) F16H 47/02
F16H 61/30	(33) Germany	F16H 61/42
F16H 37/04	(51) F16H 25/24	F16H 61/682
F16H 57/021	(11) EP3855046	F16H 61/02
F16H 61/04	(21) EP21152318.8	F16H 61/04
F16H 57/04	(47) 12.07.2023	F16H 61/70

F16H 59/68	(31) 102018112703	F16K 25/00
(11) EP3889467	(32) 28.05.2018	(11) EP3625488
(21) EP21165428.0	(33) Germany	(21) EP18801386.6
(47) 12.07.2023	(51) F16H 57/04	(47) 12.07.2023
(22) 29.03.2021	(11) EP3851706	(87) AU2018000071
(54) METHOD FOR CHANGING OVER	(21) EP21161221.3	22.11.2018
TRANSMISSION STAGES OF A	(47) 12.07.2023	(22) 15.05.2018
TRANSMISSION ARRANGEMENT	(22) 22.05.2015	(54) VALVE ASSEMBLY
(73) Robert Bosch GmbH	(54) APPARATUS FOR MANAGING FLUID	(73) Country Cocky Pty. Ltd.
(72) Ilk, Erich	FLOW IN A VEHICLE	(72) COCCIARDI, Peter Anthony
Lenzgeiger, Ulrich	(73) Qinetiq Limited	(31) 2017901907
Frasch, Michael	(72) Flaxman, Robert John Bonner	2017901799
(31) 202000006952	(31) 201409180	(32) 19.05.2017
(32) 02.04.2020	(32) 23.05.2014	15.05.2017
(33) Italy	(33) United Kingdom	(33) Australia
(51) F16H 49/00	(51) F16H 57/05	Australia
(11) EP3809015	F16N 3/02	(51) F16K 5/06
(21) EP20197953.1	F16N 7/12	F16K 11/087
(47) 12.07.2023	F16N 21/00	F01P 1/00
(22) 24.09.2020	(11) EP4012231	F16J 15/02
(54) STRAIN WAVE GEAR WITH TOOTHED	(21) EP21213275.7	F16J 15/34
BELT	(47) 12.07.2023	(11) EP3730822
(73) ContiTech Antriebssysteme GmbH	(22) 08.12.2021	(21) EP19465530.4
(72) Konya, Alexander	(54) A SPRAY-BASED LUBRICATION	(47) 12.07.2023
(31) 102019215966	SYSTEM FOR LUBRICATING DRIVE	(22) 23.04.2019
(32) 17.10.2019	CHAINS OF WORKING MACHINES	(54) SEAL ASSEMBLY AND FLUID VALVE
(33) Germany	AND A FORESTRY WINCH WITH THE	(73) Vitesco Technologies GmbH
(51) F16H 49/00	SAID SYSTEM	(72) Plaeru, George
F16H 57/04	(73) Pisek - Vitli Krpan, d.o.o.	Rozputniak, Dmytro
(11) EP3885607	(72) Pisek, Franc	Isaincu, Alexandru
(21) EP18940487.4	(31) 202000227	Popa, Alexandru
(47) 12.07.2023	(32) 08.12.2020	(51) F16K 11/04
(87) JP2018043253	(33) Slovenia	F15B 13/04
28.05.2020	(51) F16J 15/06	F16K 47/08
(22) 22.11.2018	F16J 15/10	F15B 13/043
(54) WAVE GENERATOR OF STRAIN WAVE	(11) EP3760900	G05D 16/20
GEARING DEVICE	(21) EP20182787.0	(11) EP2769100
(73) Harmonic Drive Systems Inc.	(47) 12.07.2023	(21) EP12791318.4
(72) SHIROKOSHI, Norio	(22) 29.06.2020	(47) 12.07.2023
ORII, Daisuke	(54) FLUORINE RESIN MOLDED BODY	(87) US2012061285
KOBAYASHI, Syuhei	(73) SMC Corporation	25.04.2013
YAMAZAKI, Hiroshi	(72) IKEDA, Keisuke	(22) 22.10.2012
(51) F16H 57/00	OKITA, Yuzuru	(54) VOLUME BOOSTER WITH SEAT LOAD
F16C 3/02	DOI, Yoshitada	BIAS
F16H 55/06	(31) 2019125692	(73) Fisher Controls International LLC
(11) EP2783136	(32) 05.07.2019	(72) LOVELL, Michel, Ken
(21) EP12761543.3	(33) Japan	(31) 201113278368
(47) 12.07.2023	(51) F16J 15/34	(32) 21.10.2011
(87) EP2012003664	F01D 11/02	(33) United States of America
30.05.2013	F16J 15/44	(51) F16K 31/385
(22) 31.08.2012	(11) EP3783249	F16K 31/524
(54) GEAR WITH RIGIDLY CONNECTED	(21) EP20192505.4	F16K 7/17
DRIVESHAF	(47) 12.07.2023	F16K 47/08
(73) KAP Precision Components GmbH	(22) 24.08.2020	F16K 1/52
(72) KASTRUP, Michael	(54) NON-CONTACT SEAL WITH AXIAL	E03C 1/00
(31) 102011119514	ARRANGEMENT	G05D 7/01
(32) 26.11.2011	(73) Raytheon Technologies Corporation	(11) EP3839310
(33) Germany	(72) LOW, Kerwin R.	(21) EP20210138.2
(51) F16H 57/021	SADEGHI, Mani	(47) 12.07.2023
(11) EP3575637	HILBERT, Brian F.	(22) 16.01.2018
(21) EP19157779.0	GYSLING, Daniel L.	(54) SANITARY VALVE AND
(47) 12.07.2023	(31) 201962891041 P	CORRESPONDING SERIES
(22) 18.02.2019	(32) 23.08.2019	(73) Neoperl GmbH
(54) MOTOR VEHICLE DRIVE ASSEMBLY	(33) United States of America	(72) Tempel, Marc
(73) HUF Hulsbeck & Fürst GmbH & Co. KG	(51) F16K 1/36	(31) 202017101403 U
(72) WIETKAMP, Stephan	F16K 21/04	(32) 10.03.2017
TORKOWSKI, Thorsten	F16K 15/02	(33) Germany
KOCH, Andreas		(51) F16K 37/00

(11) EP3784937	(72) Inha, Teemu	F16K 15/03
(21) EP19723333.1	(51) F16L 9/22	F16L 55/11
(47) 12.07.2023	E04C 3/00	F16L 55/115
(87) EP2019060516	F16L 9/00	F16L 41/00
31.10.2019	F16L 9/02	F16L 55/07
(22) 24.04.2019	F16L 9/17	(11) EP3645925
(54) METHOD FOR MONITORING THE	B61B 13/10	(21) EP18837561.2
FUNCTION OF A CONTROL VALVE,	E21D 11/14	(47) 12.07.2023
DEVICE FOR CARRYING OUT	(11) EP3717814	(87) US2018044054
A METHOD OF THIS KIND AND	(21) EP18882431.2	31.01.2019
CONTROL VALVE HAVING A DEVICE	(47) 12.07.2023	(22) 27.07.2018
OF THIS KIND	(87) US2018063412	(54) PRE-ASSEMBLED COUPLING
(73) Samson Aktiengesellschaft	06.06.2019	ASSEMBLY WITH FLEXIBLE HOSE
(72) KAH, Harald	(22) 30.11.2018	ADAPTER
MELLINGER, Christian	(54) SEGMENTAL TUBES	(73) ASC Engineered Solutions, LLC
(31) 102018109865	(73) Hyperloop Technologies, Inc.	(72) BELEN, Jordan Cameron
(32) 24.04.2018	(72) HILGERS, Andy	SCOTT, Stephen Eric
(33) Germany	(31) 201762593489 P	MCNAMARA, Matthew William
(51) F16K 37/00	(32) 01.12.2017	(31) 201816044095
F16K 5/06	(33) United States of America	201762538480 P
F16K 27/06	(51) F16L 11/04	(32) 24.07.2018
G01F 1/66	B32B 1/08	28.07.2017
G01F 15/00	B32B 15/08	(33) United States of America
F16K 31/04	B29C 53/60	United States of America
(11) EP3870886	B32B 15/085	(51) F16L 27/08
(21) EP19798535.1	B32B 27/08	F16L 17/025
(47) 12.07.2023	B32B 27/34	F16L 17/06
(87) EP2019000299	B32B 27/32	(11) EP4075043
30.04.2020	(11) EP2810769	(21) EP22162737.5
(22) 25.10.2019	(21) EP14162763.8	(47) 12.07.2023
(54) SHUT-OFF VALVE FOR INSTALLATION	(47) 12.07.2023	(22) 17.03.2022
IN A CONDUIT SYSTEM FOR A	(22) 31.03.2014	(54) PIPE CONNECTION DEVICE
MEDIUM, ESPECIALLY IN A BUILDING	(54) Protective pipe jacket with a diffusion	(73) SVT GmbH
INSTALLATION	barrier	(72) Raisig, Paul
(73) REHAU Industries SE & Co. KG	(73) Gerodur MPM Kunststoffverarbeitung	(31) 202021102003 U
(72) PENNEKAMP, Oliver	GmbH & Co. KG	(32) 14.04.2021
MÖCKEL, Tino	(72) MENZL, Andreas	(33) Germany
TASCHL, Martin	(31) 102013105813	(51) F16L 27/10
CHRISTOPH, Sven	(32) 05.06.2013	F16L 55/033
(31) 18202847	(33) Germany	(11) EP3670991
(32) 26.10.2018	(51) F16L 13/02	(21) EP19215449.0
(33) European Patent Office (EPO)	F16L 13/10	(47) 12.07.2023
(51) F16L 3/223	F16L 25/00	(22) 12.12.2019
H02G 3/32	F16L 33/34	(54) DUCT COUPLING SYSTEM
F16L 3/13	F16L 47/02	(73) Bombardier Inc.
(11) EP3724544	B23K 20/12	(72) CARON-L'ECUYER, Alexis
(21) EP18857416.4	B29C 65/06	BRODEUR, Andre
(47) 12.07.2023	(11) EP3679284	(31) 201862780751 P
(87) IB2018001596	(21) EP18762811.0	(32) 17.12.2018
20.06.2019	(47) 12.07.2023	(33) United States of America
(22) 12.12.2018	(87) EP2018073038	(51) F16L 33/22
(54) STACKABLE BRACKETS FOR	07.03.2019	(11) EP3553361
MICRODUCTS AND CABLES	(22) 27.08.2018	(21) EP19167045.4
(73) PPC Broadband Fiber Ltd.	(54) PIPE DEVICE HAVING A BONDED	(47) 12.07.2023
(72) ETHERIDGE, Harvey	JOINT	(22) 03.04.2019
LEESON, Kim	(73) NORMA Germany GmbH	(54) CLAMPING RING FOR PIPE JOINTS,
(31) 201762597926 P	(72) KULLIK, Sven	CLAMPING DEVICE COMPRISING
(32) 12.12.2017	(31) 102017120305	THE CLAMPING RING FOR PIPE
(33) United States of America	(32) 04.09.2017	JOINTS AND HOSE CONNECTION
(51) F16L 5/14	(33) Germany	COMPRISING THE CLAMPING DEVICE
E03D 11/16	(51) F16L 17/025	(73) WMF GmbH
E04G 15/06	F16L 17/04	(72) Schirrmacher, Philipp
(11) EP3220032	F16L 21/02	Aubele, Thomas
(21) EP16160463.2	F16L 21/06	(31) 102018205397
(47) 12.07.2023	F16L 41/02	(32) 10.04.2018
(22) 15.03.2016	F16L 43/00	(33) Germany
(54) LEAD-THROUGH ELEMENT	F16K 27/02	(51) F16L 43/02
(73) Uponor Innovation AB	F16K 27/06	E03B 7/00

E03B 7/07	(21) EP18173964.0	02.12.2011
(11) EP3575661	(47) 12.07.2023	(33) Korea (Republic)
(21) EP19172691.8	(22) 24.05.2018	Korea (Republic)
(47) 12.07.2023	(54) SYSTEM FOR REMOTE SURVEYING	(51) F21S 9/03
(22) 06.05.2019	AND MARKING OF COMPRESSED	H01M 10/42
(54) RINSING AND SAMPLING DEVICE FOR	GAS CYLINDER ASSEMBLIES	H01M 10/46
A DOMESTIC WATER CONNECTION	(73) Messer SE & Co. KGaA	H02J 7/34
(73) REWAG Regensburger Energie- und	(72) Dierckx, Marc	H02J 7/35
Wasserversorgung AG & Co. KG	(31) 102017006013	H02J 3/32
(72) Lechner, Benno	(32) 24.06.2017	B60L 53/31
(31) 102018112932	(33) Germany	B60L 53/52
(32) 30.05.2018	(51) F17C 13/04	B60L 53/51
(33) Germany	(11) EP3978794	B60L 53/63
(51) F16L 55/115	(21) EP21198175.8	B60L 53/62
A01B 71/08	(47) 12.07.2023	F03D 9/25
(11) EP4001727	(22) 22.09.2021	F03D 9/00
(21) EP21209187.0	(54) VALVE AND DEVICE FOR DELIVERY	F03D 13/20
(47) 12.07.2023	OF PRESSURIZED FLUID	F21S 8/08
(22) 19.11.2021	(73) L'AIR LIQUIDE SOCIETE ANONYME	B60L 53/14
(54) PROTECTIVE CAP FOR CARTRIDGES	POUR L'ETUDE ET L'EXPLOITATION	H02S 20/10
OF CONNECTORS	DES PROCEDES GEORGES CLAUDE	H02S 10/12
(73) FASTER S.r.l.	(72) FRENAL, Antoine	F21V 33/00
(72) NERI, Marco	LIGONESCHE, Reanud	F21S 9/04
FERRARA, Rocco	ONDO, Olivier	(11) EP3743655
CANZI, Luigi	LAMIABLE, Morgan	(21) EP19743165.3
(31) 202000027894	BROECHLER, Johan	(47) 12.07.2023
(32) 20.11.2020	KAICHINGER, Arnaud	(87) US2019014804
(33) Italy	(31) 2010129	01.08.2019
(51) F16L 59/14	(32) 05.10.2020	(22) 23.01.2019
F16L 59/02	(33) France	(54) LIGHT STANDARD WITH ELECTRIC
(11) EP3608579	(51) F21K 9/235	VEHICLE (EV) CHARGER
(21) EP18781759.8	F21K 9/238	(73) Beam Global
(47) 12.07.2023	F21V 31/00	(72) SENATORE, Patrick
(87) RU2018000222	H01R 33/09	WHEATLEY, Desmond
11.10.2018	(11) EP3851734	(31) 201815879156
(22) 06.04.2018	(21) EP20173356.5	(32) 24.01.2018
(54) VERSTÄRKT BEWEGLICHE	(47) 12.07.2023	(33) United States of America
WÄRMEDÄMMUNG	(22) 07.05.2020	(51) F21S 41/14
(73) Public Joint Stock Company "Machine-	(54) WATERPROOF LAMP	F21S 41/151
Building Plant "Ziopodolsk"	(73) Xu, Xiaojun	F21S 41/143
(72) KRAINOV, Boris Vladimirovich	(72) Xu, Xiaojun	F21S 41/19
(31) 2017111880	(31) 202010062608	(11) EP3892914
(32) 07.04.2017	(32) 19.01.2020	(21) EP21157295.3
(33) Russian Federation	(33) China	(47) 12.07.2023
(51) F17C 5/00	(51) F21K 9/60	(22) 16.02.2021
(11) EP4053444	F21K 9/64	(54) VEHICULE LUMINAIRE
(21) EP22154399.4	F21V 5/04	(73) Toshiba Lighting & Technology
(47) 12.07.2023	G02B 19/00	Corporation
(22) 01.02.2022	G02B 5/02	(72) UENO, Misaki
(54) METHOD FOR MANAGING THE	H01L 33/58	(31) 2020070419
HYDROGEN SUPPLY OF VEHICLES	H01L 33/48	(32) 09.04.2020
(73) Lojelis Holding	F21V 5/10	(33) Japan
(72) JOURDY, Sylvain	F21V 13/08	(51) F21S 41/141
(31) 2102143	F21Y 115/10	F21S 45/43
(32) 05.03.2021	(11) EP2786428	(11) EP3502546
(33) France	(21) EP12852932.8	(21) EP18212726.6
(51) F17C 6/00	(47) 12.07.2023	(47) 12.07.2023
(11) EP3693652	(87) KR2012010314	(22) 14.12.2018
(21) EP19155865.9	06.06.2013	(54) LIGHT MODULE FOR A VEHICLE
(47) 12.07.2023	(22) 30.11.2012	COMPRISING A VENTILATION DEVICE
(22) 07.02.2019	(54) LIGHT EMITTING MODULE AND LENS	ARRANGED BETWEEN TWO DEVICES
(54) FILLING STATION FOR GAS BOTTLES	(73) Seoul Semiconductor Co., Ltd.	FOR HEAT DISSIPATION
AND MOTOR VEHICLES	(72) KIM, Bang Hyun	(73) Valeo Vision
(73) CleanTech Swiss AG	YANG, Young Eun	(72) REDJEM SAAD, Lotfi
(72) Tilhof, Eckhard	KIM, Eun Ju	CLETO, Christophe
(51) F17C 13/02	(31) 20110141098	(31) 1762903
(11) EP3418619	20110128375	(32) 22.12.2017
	(32) 23.12.2011	(33) France

(51) F21S 41/20 F21S 41/125 F21S 41/16 F21S 41/675 F21S 41/663	(54) LED ILLUMINATION DEVICE WITH A HIGHLY UNIFORM ILLUMINATION PATTERN	Anhui Conch Kawasaki Energy Conservation Equipment Manufacturing Company Limited
(11) EP3575676	(73) Dialight Corporation	(72) XIAO, Jieyu
(21) EP19184117.0	(72) PECK, John, P.	KAO, Chuanli
(47) 12.07.2023	(31) 580840	WANG, Ning
(22) 06.11.2015	(32) 16.10.2009	NOZOE, Takuro
(54) ILLUMINATION DEVICE AND VEHICLE	(33) United States of America	ZHOU, Jian
(73) Dai Nippon Printing Co., Ltd.	(51) F21V 8/00	FANG, Wei
(72) KURASHIGE, Makio	(11) EP3683498	ZHAO, Mihan
(31) 2014227403	(21) EP20152042.6	ZHAO, Fengwa
(32) 07.11.2014	(47) 12.07.2023	INO, Tatsuo
(33) Japan	(22) 21.03.2016	WANG, Xiaobing
(51) F21S 41/24	(54) THERMAL EXPANSION COMPENSATED BACKLIGHT ILLUMINATION	ZHANG, Hao
F21S 41/25	(73) Microsoft Technology Licensing, LLC	LIU, Dazhu
F21S 41/27	(72) BURRESS, Edward Francis	TAKENAKA, Yukihiko
F21S 41/275	KEAM, Nigel Stuart	(31) 201510076305
F21S 41/29	TRUTNA, Tristan Thomas	201520104147 U
F21S 41/663	(31) 201514676807	(32) 12.02.2015
F21S 41/143	(32) 01.04.2015	12.02.2015
F21S 43/239	(33) United States of America	(33) China
F21S 43/243	(51) F21V 21/03	China
(11) EP3894743	F21V 17/16	(51) F22B 23/02
(21) EP19817223.1	F21S 8/04	F22B 23/06
(47) 12.07.2023	F21V 17/14	F22B 37/10
(87) EP2019083688	F21Y 115/10	B21C 37/15
18.06.2020	F21Y 103/33	F16L 59/14
(22) 04.12.2019	F21Y 113/10	F16L 59/22
(54) PRECOLLIMATOR FOR A LIGHTING DEVICE	F21V 8/00	(11) EP3797245
(73) Lumileds LLC	(11) EP3869094	(21) EP19724545.9
(72) ZOZGORNİK, Steffen	(21) EP21158124.4	(47) 12.07.2023
HECHTFISCHER, Ulrich	(47) 12.07.2023	(87) FI2019050362
(31) 18212276	(22) 19.02.2021	28.11.2019
(32) 13.12.2018	(54) CEILING LIGHT APPARATUS	(22) 09.05.2019
(33) European Patent Office (EPO)	(73) LEEDARSON LIGHTING CO., LTD.	(54) A COAXIAL HEAT TRANSFER TUBE SUITABLE FOR A FLUIDIZED BED BOILER AND A METHOD FOR MANUFACTURING SAME
(51) F21S 43/33	(72) XU, Deshun	(73) Valmet Technologies Oy
F21S 43/14	CHEN, Haiqiang	(72) OJANPERÄ, Juha
F21S 43/20	PENG, Wenjin	YLI-RANTALA, Harri
F21S 43/40	ZHANG, Lei	(31) 20185465
(11) EP3014172	CHEN, Chunteng	(32) 21.05.2018
(21) EP14790119.3	LIANG, Wanzhen	(33) Finland
(47) 12.07.2023	LIN, Ruixiang	(51) F22G 5/12
(87) FR2014051676	(31) 202021204278 U	B05B 1/20
31.12.2014	202020191741 U	B05B 7/00
(22) 30.06.2014	(32) 24.06.2020	B05B 15/65
(54) INDIRECT LIGHTING DEVICE FOR A MOTOR VEHICLE TAIL LIGHT	20.02.2020	(11) EP3287695
(73) Marelli Automotive Lighting France	(33) China	(21) EP17167881.6
(72) SORNIN, Aurélie	China	(47) 12.07.2023
BUISSON, Alain	(51) F22B 1/18	(22) 25.04.2017
FICHOT, Yves	F23J 3/02	(54) ATTEMPERATOR INCLUDING A SPRAY NOZZLE
(31) 1301537	F28F 9/013	(73) Doosan Enerbility Co., Ltd.
(32) 28.06.2013	F23J 3/00	(72) SONG, Woo Seong
(33) France	F22B 37/20	KIM, Jae Cheol
(51) F21V 7/04	F01K 23/06	KIM, Dong Wook
F21V 7/09	F28G 7/00	KIM, Cheol Hong
F21V 7/00	F28D 21/00	JEONG, Seong Yong
F21K 9/68	(11) EP3258168	KIM, Kyu Man
(11) EP2488788	(21) EP16748738.8	YUN, Tae Jun
(21) EP10823767.8	(47) 12.07.2023	(31) 20160077109
(47) 12.07.2023	(87) CN2016073724	20160077104
(87) US2010042675	18.08.2016	(32) 21.06.2016
21.04.2011	(22) 06.02.2016	21.06.2016
(22) 21.07.2010	(54) WASTE HEAT BOILER	(33) Korea (Republic)
	(73) Anhui Conch Kawasaki Engineering Company Limited	Korea (Republic)
	Kawasaki Jukogyo Kabushiki Kaisha	



(51) F23N 5/10 F23N 5/24 F23D 14/72	(11) EP3338026 (21) EP16745652.4 (47) 12.07.2023	(73) Commissariat à l'Energie Atomique et aux Energies Alternatives
(11) EP3848632 (21) EP20382004.8 (47) 12.07.2023 (22) 08.01.2020	(87) EP2016067352 23.02.2017 (22) 21.07.2016	(72) PHAN, Hai Trieu DUMOULIN, Pierre (31) 2004721 (32) 13.05.2020 (33) France
(54) THERMOELECTRIC SAFETY DEVICE FOR THE ABSENCE OF A FLAME IN GAS COMBUSTION SYSTEMS	(54) HOUSEHOLD APPLIANCE (73) BSH Hausgeräte GmbH (72) KOCAMAN, Yusuf ÖLMEZ KERKÜKLÜ, Yakut MARSCH, Alexander BALKAN, Aytaç CETIN, Tezcan	(51) F24D 19/10 F24D 3/08 F24H 1/10 F24H 1/52 F24H 9/20
(73) ORKLI, S. COOP. (72) UNANUE IMAZ, Andoni HERZOG DELGADO, Juan PABLO CURTO, Marcos ARIZMENDI ZURUTUZA, Mikel	(31) 201510240 (32) 19.08.2015 (33) Türkiye	(11) EP3835667 (21) EP20207398.7 (47) 12.07.2023 (22) 13.11.2020
(51) F23R 3/42 F23R 3/00 F23R 3/60 F23R 3/50	(51) F24C 7/08 F24C 15/16	(54) METHOD FOR CONTROLLING A HEATING SYSTEM AND CONTROL DEVICE FOR SAME
(11) EP3540314 (21) EP16921335.2 (47) 12.07.2023 (87) JP2016083501 17.05.2018	(11) EP3627054 (21) EP19202220.0 (47) 12.07.2023 (22) 30.11.2009	(73) Techem Energy Services GmbH (72) Ohl, Jochen Kähler, Arne Schuck, Alfons Schulz, Hans-Jürgen Ghebru, Daniel
(22) 11.11.2016 (54) COMBUSTOR LINER FOR A GAS TURBINE	(54) COOKING DEVICE AND METHOD FOR OPERATING A COOKING DEVICE (73) BSH Hausgeräte GmbH (72) Erdmann, Klaus Theine, Markus Haberkamm, Ramona	(31) 102019134326 (32) 13.12.2019 (33) Germany
(73) Kawasaki Jukogyo Kabushiki Kaisha (72) TAKAGI, Takeshi KURASHIMA, Hirotaka HAMAMOTO, Takaya NISHIURA, Takeo ODA, Takeo HISAMATSU, Osamu KOBAYASHI, Masayoshi TSURU, Tomoko	(31) 102008044231 (32) 01.12.2008 (33) Germany	(51) F24F 3/153 F24F 5/00 F24F 13/14 F24F 13/22 F25D 31/00 F24F 110/20
(51) F24C 7/08 (11) EP3969817 (21) EP20726338.5 (47) 12.07.2023 (87) EP2020063156 19.11.2020	(11) EP3978810 (21) EP20199905.9 (47) 12.07.2023 (22) 02.10.2020	(11) EP3742061 (21) EP20172964.7 (47) 12.07.2023 (22) 05.05.2020
(22) 12.05.2020 (54) COOKING APPLIANCE WITH SENSOR UNITS WHICH ARE LOCATED OUTSIDE THE COOKING COMPARTMENT	(54) FILTER FOR A KITCHEN HOOD AND KITCHEN HOOD COMPRISING SUCH A FILTER (73) Silverline Endüstri ve Ticaret A.S. (72) Ceviksever, Tolga Güven	(54) A REFRIGERATING APPLIANCE, IN PARTICULAR A WINE CELLAR, WITH A HUMIDITY CONTROL SYSTEM (73) Whirlpool Corporation (72) Pauli, Douglas Parnisari, Matteo Stahelin, Rodrigues
(73) BSH Hausgeräte GmbH (72) KUCHLER, Markus VOGT, Matthias RIGORTH, Kerstin STERZ, Sebastian	(51) F24D 3/10 (11) EP3566008 (21) EP17826225.9 (47) 12.07.2023 (87) EP2017083938 28.06.2018	(31) 201916408976 (32) 10.05.2019 (33) United States of America
(31) 102019206892 (32) 13.05.2019 (33) Germany	(22) 20.12.2017 (54) ENERGY DISTRIBUTION SYSTEM (73) INNENCO TECHNOLOGY LIMITED (72) ARNST, Frantisek KARLSSON, Jonathan	(51) F24F 3/16 F24F 11/00 F24F 13/28 F24F 13/08
(51) F24C 7/08 (11) EP3517842 (21) EP18153120.3 (47) 12.07.2023 (22) 24.01.2018	(31) 1651733 (32) 22.12.2016 (33) Sweden	(11) EP3109562 (21) EP16151600.0 (47) 12.07.2023 (22) 15.01.2016
(54) METHOD FOR OPERATING A FOOD PREPARATION ENTITY	(51) F24D 10/00 F24D 11/00 F24D 19/10 F24F 5/00 F24F 140/20	(54) AN AIR VENT ASSEMBLY (73) Polypipe Limited (72) BIGGS, Colin (31) 201500659 (32) 15.01.2015 (33) United Kingdom
(73) ELECTROLUX APPLIANCES AKTIEBOLAG (72) LUCKHARDT, Christoph	(11) EP3910249 (21) EP21172993.4 (47) 12.07.2023 (22) 10.05.2021	(51) F24F 5/00 F24F 11/43 F24F 11/46 F24F 11/63 F24F 11/83 F24F 11/86
(51) F24C 7/08 F24C 15/06 D06F 39/00	(54) SYSTEM FOR PRODUCING AND DISTRIBUTING HEAT AND COLD AND METHOD FOR MANAGING SAME	

F24F 11/64	(11) EP3650767	(31) 201916680528
F24F 3/00	(21) EP19207045.6	(32) 12.11.2019
F24F 110/12	(47) 12.07.2023	(33) United States of America
F24F 110/22	(22) 05.11.2019	(51) F24F 11/54
F24F 110/20	(54) GAS-TIGHT SHUT-OFF VALVE	F24F 11/61
F24F 110/10	(73) HaWig Innovative Versorgungstechnik GmbH	F24F 11/74
F24F 140/60	(72) WIDEBURG, Harald	F24F 110/12
F24F 140/40	(31) 102018127623	F24F 120/10
F24F 140/20	(32) 06.11.2018	F24F 110/50
F24F 110/32	(33) Germany	F24F 110/32
F24F 3/06	(51) F24F 7/06	F24F 110/40
(11) EP3961115	A61L 9/16	(11) EP3477215
(21) EP20794580.9	F24F 13/06	(21) EP18201935.6
(47) 12.07.2023	B08B 5/02	(47) 12.07.2023
(87) JP2020016968	F24F 3/163	(22) 23.10.2018
29.10.2020	F24F 9/00	(54) SYSTEM FOR MANAGING FAN UNITS
(22) 17.04.2020	F24F 8/20	(73) Amphoux, André
(54) AIR-CONDITIONING SYSTEM, MACHINE LEARNING DEVICE, AND MACHINE LEARNING METHOD	F24F 8/50	(72) Amphoux, André
(73) DAIKIN INDUSTRIES, LTD.	(11) EP3792562	(31) 1760060
(72) OKAMOTO, Yasunori	(21) EP19815116.9	(32) 24.10.2017
FUJITA, Naotoshi	(47) 12.07.2023	(33) France
(31) 2019086786	(87) JP2019022718	(51) F24F 11/77
(32) 26.04.2019	12.12.2019	F04D 27/00
(33) Japan	(22) 07.06.2019	F24F 130/40
(51) F24F 6/14	(54) DUST REMOVAL DEVICE AND DUST REMOVAL SYSTEM	(11) EP3734176
F24F 13/22	(73) DAIKIN INDUSTRIES, LTD.	(21) EP20172033.1
(11) EP3492826	(72) YABU, Tomohiro	(47) 12.07.2023
(21) EP18204981.7	SUZUMURA, Kei	(22) 29.04.2020
(47) 12.07.2023	(31) 2018110176	(54) DEVICE FOR MONITORING THE OPERATION OF A FAN
(22) 07.11.2018	(32) 08.06.2018	(73) ebm-papst Landshut GmbH
(54) AIR CONDITIONING SYSTEM COMPRISING A COLD PRODUCTION MECHANISM COUPLED WITH A MIST GENERATOR	(33) Japan	(72) ERNST, Tobias
(73) Commissariat à l'Energie Atomique et aux Energies Alternatives	(51) F24F 7/08	WEINGART, Markus
(72) DUMOULIN, Pierre	F24F 7/10	(31) 102019111076
BURGUN, Françoise	F24F 13/02	(32) 29.04.2019
(31) 1761412	F24F 13/06	(33) Germany
(32) 30.11.2017	F24F 13/08	(51) F24F 11/84
(33) France	F24F 13/20	F24F 11/86
(51) F24F 7/00	F24F 7/00	F24F 11/871
F24F 13/02	(11) EP3594578	F25B 30/02
F24F 11/52	(21) EP19180840.1	F25B 47/02
F24F 11/89	(47) 12.07.2023	(11) EP4071417
F24F 110/10	(22) 18.06.2019	(21) EP21761962.6
F24F 110/20	(54) VENTILATION VALVE AND INSTALLATION KIT	(47) 12.07.2023
F24F 110/50	(73) VILPE Oy	(87) CN2021072451
F24F 110/72	(72) SAIKKONEN, Eero	21.07.2022
F24F 110/65	FRIIS, Kaj	(22) 18.01.2021
(11) EP3732403	PUIKKONEN, Pasi	(54) HEAT PUMP DEFROSTING CONTROL METHOD AND HEAT PUMP DEFROSTING CONTROL APPARATUS
(21) EP18833679.6	ANTTILA, Timo	(73) GUANGDONG PHNIX ECO-ENERGY SOLUTION LTD.
(47) 12.07.2023	LAHTI, Veli-Pekka	(72) LEI, Pengfei
(87) FI2018050981	(31) 20185633	LUO, Sen
04.07.2019	(32) 09.07.2018	LI, Caoxuan
(22) 27.12.2018	(33) Finland	LIU, Zhili
(54) SENSING DEVICE AND METHOD OF SENSING PROPERTIES OF AIR	(51) F24F 11/34	YE, Jingfa
(73) Loopshore OY	F24F 7/02	ZHANG, Li
(72) EDGREN, Janne	F24F 13/14	CAI, Pengcheng
(31) 20176181	(11) EP3822552	(51) F24F 13/20
(32) 28.12.2017	(21) EP20204730.4	F24F 13/30
(33) Finland	(47) 12.07.2023	F24F 13/22
(51) F24F 7/00	(22) 29.10.2020	F24F 1/00
F24F 13/12	(54) EXHAUST FAN ASSEMBLY HAVING A SYSTEM FOR AUTOMATICALLY OPENING A DAMPER IN THE EVENT OF A POWER FAILURE	(11) EP3851758
F24F 13/14	(73) Captive-Aire Systems, Inc.	(21) EP19872392.6
	(72) HESS, Joshua J.	(47) 12.07.2023
		(87) KR2019013171
		23.04.2020

(22) 08.10.2019	(11) EP3990839	(47) 12.07.2023
(54) AIR CONDITIONER	(21) EP20747050.1	(87) KR2018001414
(73) Samsung Electronics Co., Ltd.	(47) 12.07.2023	09.08.2018
(72) SHIN, Hae Gyun	(87) FR2020051123	(22) 01.02.2018
LEE, Chang Sik	30.12.2020	(54) OUTDOOR UNIT FOR AIR
SONG, Young Tae	(22) 26.06.2020	CONDITIONER
JUNG, Chang-Woo	(54) CRYOGENIC COOLER FOR	(73) LG Electronics Inc.
CHUN, Sung Hyun	A RADIATION DETECTOR,	(72) KIM, Daehyoung
KIM, Jin-Gyun	PARTICULARLY IN A SPACECRAFT	YOON, Pilhyun
KIM, Sung Jae	(73) L'AIR LIQUIDE, SOCIETE ANONYME	JUNG, Jaehwa
CHO, Seo Young	POUR L'ETUDE ET L'EXPLOITATION	PARK, Junseong
(31) 20180122576	DES PROCEDES GEORGES CLAUDE	(31) 20170014470
(32) 15.10.2018	(72) BUTTERWORTH, James	(32) 01.02.2017
(33) Korea (Republic)	CHASSAING, Clément	(33) Korea (Republic)
(51) F24H 1/18	(31) 1906948	(51) F25C 5/185
F24H 9/20	(32) 26.06.2019	F25C 1/24
(11) EP3798529	(33) France	F25C 5/20
(21) EP19210271.3	(51) F25B 21/02	(11) EP3971497
(47) 12.07.2023	F25D 11/00	(21) EP21187571.1
(22) 20.11.2019	A45C 5/00	(47) 12.07.2023
(54) INDICATOR GENERATING METHOD	(11) EP3683521	(22) 25.07.2021
AND PREDICTIVE MAINTENANCE	(21) EP20151972.5	(54) AN ICE MAKING ASSEMBLY HAVING
METHOD FOR FAILURE PREDICTION	(47) 12.07.2023	AN ICE DISTRIBUTION MEANS
FOR A WATER HEATING SYSTEM,	(22) 15.01.2020	(73) Arçelik Anonim Sirketi
SUCH WATER HEATING SYSTEM, AND	(54) REFRIGERATED BEAUTY BOX FOR	(72) KARAAGAC, Emre
BEVERAGE MAKER	STORAGE AND USE OF COSMETIC	YAYLA, Sonat
(73) Airbus Operations GmbH	PRODUCTS	CENESIZ, Kaan
(72) RODRÍGUEZ PERULERO, Pablo	(73) Menaliz	GUNDUZ, Nihat
PANNENBÄCKER, Thorsten	(72) MENARD, Florian	(31) 202014679
ADHIKARI, Partha	LIZIER, Clara	(32) 16.09.2020
SHENOY, Ajith	(31) 1900360	(33) Türkiye
PATWARI, Manish	(32) 15.01.2019	(51) F25D 17/06
DREIER, Arzu	(33) France	F25D 29/00
GURURAJA RAO, Harsha	(51) F25B 39/04	(11) EP3732413
(31) 201911039534	F28D 1/00	(21) EP18897066.9
(32) 30.09.2019	(11) EP3637023	(47) 12.07.2023
(33) India	(21) EP18461616.7	(87) TR2018050583
(51) F24H 3/02	(47) 12.07.2023	04.07.2019
F24H 3/04	(22) 09.10.2018	(22) 10.10.2018
A45D 20/10	(54) HEAT EXCHANGER WITH FILTER, FOR	(54) A COOLER COMPRISING A
A45D 20/12	REFRIGERANT FLUID LOOP	HEAT CONTROLLED SPECIAL
(11) EP3748252	(73) Valeo Autosystemy SP. Z.O.O.	COMPARTMENT
(21) EP20175423.1	(72) SZOSTEK, Dawid	(73) Arçelik Anonim Sirketi
(47) 12.07.2023	CICHOSZ, Filip	(72) HOCAOGLU, Sabahattin
(22) 19.05.2020	BELZOWSKI, Michal	SARIKAYA, Ersin
(54) ELECTRICAL APPLIANCE	POKRYWINSKI, Karol	MET, Aylin
(73) Einhell Germany AG	(51) F25B 41/20	(31) 201721407
(72) THANNHUBER, Markus	F25B 41/31	(32) 25.12.2017
(31) 102019113502	(11) EP3690360	(33) Türkiye
(32) 21.05.2019	(21) EP18860173.6	(51) F25D 17/08
(33) Germany	(47) 12.07.2023	F25D 11/02
(51) F24S 25/613	(87) CN2018106128	(11) EP4006460
H02S 20/23	04.04.2019	(21) EP20843116.3
H02S 30/00	(22) 18.09.2018	(47) 12.07.2023
E04D 13/147	(54) INTEGRATED COOLING ASSEMBLY	(87) CN2020103036
(11) EP4023959	AND BATTERY ASSEMBLY	28.01.2021
(21) EP21216131.9	(73) Zhejiang Sanhua Automotive	(22) 20.07.2020
(47) 12.07.2023	Components Co., Ltd.	(54) REFRIGERATING AND FREEZING
(22) 20.12.2021	(72) ZHU, Zhenshan	DEVICE
(54) COVERING DEVICE	ZOU, Jiang	(73) Haier Smart Home Co., Ltd.
(73) SL Rack GmbH	ZHANG, Rongrong	Qingdao Haier Special Refrigeration
(72) Schletter, Ludwig	(31) 201710923232	Electric Appliance Co., Ltd.
(31) 102021100081	(32) 30.09.2017	Qingdao Haier Refrigerator Co., Ltd.
(32) 05.01.2021	(33) China	(72) CHENG, Xueli
(33) Germany	(51) F25B 41/40	LI, Chunyang
(51) F25B 9/14	F25B 41/00	FEI, Bin
F25B 25/00	(11) EP3578898	JI, Lisheng
F25D 19/00	(21) EP18747451.5	(31) 201910661228

(32) 22.07.2019	(33) Korea (Republic)	Becke, Christoph
(33) China	(51) F25D 23/06	Wang, Tieniu
(51) F25D 21/00	(11) EP3798554	(31) 201520857566 U
F25D 11/02	(21) EP20193982.4	102016216284
(11) EP3903049	(47) 12.07.2023	(32) 29.10.2015
(21) EP19813519.6	(22) 01.09.2020	30.08.2016
(47) 12.07.2023	(54) FEATURE IN VACUUM INSULATED	(33) China
(87) EP2019083495	STRUCTURE TO ALLOW PRESSURE	Germany
02.07.2020	MONITORING	(51) F25D 25/02
(22) 03.12.2019	(73) Whirlpool Corporation	A47B 57/40
(54) A COOLING DEVICE WITH REDUCED	(72) Naik, Abhay	A47B 57/42
ENERGY CONSUMPTION	Krishna, Sai B.	A47B 88/43
(73) Arçelik Anonim Sirketi	Pathak, Sanjesh Kumar	F25D 23/06
(72) ERCAN, Turgay	Allard, Paul B.	(11) EP3805678
SARICAY, Tugba	(31) 201916581962	(21) EP20200165.7
(31) 201820420	(32) 25.09.2019	(47) 12.07.2023
(32) 25.12.2018	(33) United States of America	(22) 05.10.2020
(33) Türkiye	(51) F25D 23/06	(54) HOUSEHOLD APPLIANCE
(51) F25D 21/08	(11) EP3339781	(73) Whirlpool Corporation
(11) EP3816548	(21) EP17209847.7	(72) Stawczyk, Bartosz
(21) EP20201417.1	(47) 12.07.2023	El-Sayed, Kamil
(47) 12.07.2023	(22) 21.12.2017	Rotter, Chad
(22) 12.10.2020	(54) REFRIGERATOR	Kostka, Karol Michal
(54) REFRIGERATION APPLIANCE	(73) Samsung Electronics Co., Ltd.	Naik, Abhay
PROVIDED WITH A MULTILAYER DE-	(72) YOON, Su Han	(31) 201916597889
ICING COMPOSITE AND METHOD	YANG, Seung Yong	(32) 10.10.2019
FOR DE-ICING AN EVAPORATOR	KIM, Byung Su	(33) United States of America
ASSEMBLY	(31) 20160178619	(51) F25D 25/02
(73) Whirlpool Corporation	(32) 23.12.2016	F25D 23/04
(72) Parnisari, Matteo	(33) Korea (Republic)	A47B 46/00
Olivani, Andrea	(51) F25D 23/06	(11) EP3742092
Khizar, Muhammad	F25D 25/02	(21) EP18901337.8
Buzzi, Ermanno	(11) EP3546859	(47) 12.07.2023
(31) 201916665872	(21) EP19160968.4	(87) CN2018123086
(32) 28.10.2019	(47) 12.07.2023	25.07.2019
(33) United States of America	(22) 06.03.2019	(22) 24.12.2018
(51) F25D 23/02	(54) HOUSEHOLD REFRIGERATOR	(54) REFRIGERATOR AND REFRIGERATOR
F25D 23/06	HAVING AN ATTACHED PLATE-	DOOR
F16L 59/02	SHAPED SHELF	(73) Qingdao Haier Co., Ltd.
F16L 59/065	(73) BSH Hausgeräte GmbH	(72) LIU, Haoquan
(11) EP3491310	(72) Försterling, Klaus	YANG, Chun
(21) EP16910687.9	Kessler, Andreas	ZHANG, Hao
(47) 12.07.2023	Staud, Ralph	ZHU, Xiaobing
(87) US2016043991	Magermans, Sebastiaan	(31) 201810055375
01.02.2018	Korte, Andreas	(32) 19.01.2018
(22) 26.07.2016	(31) 102018204607	(33) China
(54) METHOD OF MAKING A VACUUM	(32) 27.03.2018	(51) F25J 1/00
INSULATED REFRIGERATOR	(33) Germany	F25J 1/02
STRUCTURE AND VACUUM	(51) F25D 25/02	(11) EP3550238
INSULATED REFRIGERATOR	(11) EP3163234	(21) EP19305446.7
STRUCTURE	(21) EP16194339.4	(47) 12.07.2023
(73) Whirlpool Corporation	(47) 12.07.2023	(22) 05.04.2019
(72) WESTLAKE, Lorraine	(22) 18.10.2016	(54) METHOD FOR LIQUEFACTION
NAIK, Abhay	(54) HOUSEHOLD REFRIGERATING	OF GASEOUS METHANE BY
DEKA, Lakshya	APPLIANCE	VAPORISATION OF NITROGEN,
(51) F25D 23/04	(73) BSH Hausgeräte GmbH	INSTALLATION FOR THE
(11) EP3795930	(72) Guo, Zhiqiang	LIQUEFACTION OF GASEOUS
(21) EP20195275.1	Hartwein, Christine	METHANE IMPLEMENTING THE
(47) 12.07.2023	Staud, Ralph	METHOD
(22) 09.09.2020	Eicher, Max	(73) Waga Energy
(54) REFRIGERATOR	Zhang, Min	(72) PRINCE, Guénaël
(73) LG Electronics Inc.	Huang, Lulu	(31) 1852962
(72) CHOI, Kyukwan	Kessler, Andreas	(32) 05.04.2018
KIM, Sanghun	Kleinlein, Philipp	(33) France
KIM, Yong	Cai, Junsheng	(51) F25J 3/04
KIM, Minsub	Tischer, Thomas	(11) EP3870916
(31) 20190114286	Zhou, Zhanhong	(21) EP19797563.4
(32) 17.09.2019	Angele, Boris	(47) 12.07.2023

(87) EP2019025336 30.04.2020	(73) KHD Humboldt Wedag GmbH	(54) PLATE FOR HEAT EXCHANGE ARRANGEMENT AND HEAT EXCHANGE ARRANGEMENT
(22) 09.10.2019	(72) SYBON, André SAKSENA, Ravi	(73) Alfa Laval Corporate AB
(54) METHOD FOR PRODUCING ONE OR MORE AIR PRODUCTS AND AIR SEPARATION UNIT	(31) 102018108802 (32) 13.04.2018 (33) Germany	(72) MASGRAU, Marcello (31) 1750583 (32) 11.05.2017 (33) Sweden
(73) Linde GmbH	(51) F28D 1/053	(51) F28D 15/00
(72) GOLUBEV, Dimitri OTTE, Daniel Palaniswamy	(11) EP3825634 (21) EP19461604.1 (47) 12.07.2023 (22) 19.11.2019	F28D 15/02 F28D 20/00 F21S 8/08 F24T 10/17 F28D 1/047 H01F 27/10 H02S 40/42 F03D 1/00 F28D 1/04 F28D 7/12 F24T 10/13
(31) 18020559 (32) 26.10.2018 (33) European Patent Office (EPO)	(54) A REINFORCEMENT FOR A HEAT EXCHANGER	(11) EP3628955
(51) F26B 3/04 F26B 15/18 F26B 21/00	(73) Valeo Autosystemy SP. Z.O.O. (72) PENTAPALLI, Venkatesh BARUS, Lukasz NUKALA, Vineela DULIBAN, Lukasz JURKIEWICZ, Damian MUDAGAL, Raghavendra	(21) EP19200416.6 (47) 12.07.2023 (22) 26.06.2014 (54) HEAT-DISSIPATING STRUCTURE HAVING EMBEDDED SUPPORT TUBE TO FORM INTERNALLY RECYCLING HEAT TRANSFER FLUID AND APPLICATION APPARATUS
(11) EP4030130 (21) EP21151926.9 (47) 12.07.2023 (22) 15.01.2021	(51) F28D 1/053 F28F 9/02 F28F 9/26 F25B 39/04 F25B 43/00 F28D 21/00	(73) Yang, Tai-Her (72) Yang, Tai-Her (31) 201313927220 (32) 26.06.2013 (33) United States of America
(54) MODULE AND APPARATUS FOR DRYING CONTAINERS	(11) EP3732419 (21) EP19704285.6 (47) 12.07.2023 (87) EP2019052847 29.08.2019 (22) 06.02.2019	(51) F28D 15/04 (11) EP3343161 (21) EP17205975.0 (47) 12.07.2023 (22) 07.12.2017 (54) LOOP HEAT PIPE WICK, LOOP HEAT PIPE, COOLING DEVICE, AND ELECTRONIC DEVICE, AND METHOD FOR MANUFACTURING POROUS RUBBER AND METHOD FOR MANUFACTURING LOOP HEAT PIPE WICK
(73) Europool S.r.l. (72) PRIERO, Marco	(54) PLUG-IN DEVICE FOR A CYLINDER OF A CONDENSER	(73) Ricoh Company, Ltd. (72) ENDOH, Takeshi KATO, Kiyotada HIRASAWA, Tomoyasu AZE, Norihiko
(51) F26B 5/06 (11) EP3894768 (21) EP19817505.1 (47) 12.07.2023	(73) Valeo Systemes Thermiques-THS (72) DURBECQ, Gaël WESTERMANN, Véronique	(31) 2017087547 2016255331 (32) 26.04.2017 28.12.2016 (33) Japan Japan
(87) US2019061412 18.06.2020 (22) 14.11.2019	(31) 1800171 (32) 26.02.2018 (33) France	(51) F28D 20/00 (11) EP3839401 (21) EP20215022.3 (47) 12.07.2023 (22) 17.12.2020
(54) METHODS OF CRYO-CURING	(51) F26B 5/06 F26B 25/22	(54) SYSTEM INTENDED AT LEAST FOR THE REMOVAL OF ENERGY IN THERMOCHEMICAL FORM
(73) Fortunata, LLC (72) MCAFEE, Tracee BAUGHMAN, Greg	(11) EP3502604 (21) EP17209423.7 (47) 12.07.2023 (22) 21.12.2017	(73) COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES
(31) 201962880157 P 201862780041 P (32) 30.07.2019 14.12.2018 (33) United States of America United States of America	(54) USE OF A PRODUCT SENSOR, USE OF A SET OF PRODUCT SENSORS, DRYING VESSEL AND METHOD FOR OPERATING A PRODUCT SENSOR	
(51) F26B 5/06 F26B 25/22	(73) Martin Christ Gefriertrocknungsanlagen GmbH (72) Ostermeier, Sven Umbach, Michael Dill, Martin Harms, Dr.Frank	
(11) EP3775742 (21) EP19716842.0 (47) 12.07.2023 (87) EP2019058168 17.10.2019 (22) 01.04.2019	(31) 2020028002 (32) 21.02.2020 (33) Japan (51) F28D 9/00 F28F 3/04 F24H 1/32 F28D 21/00 F24H 8/00 F24H 1/12	
(54) SYSTEM AND BURNER LANCE FOR ADDITIONALLY PRODUCING WHITE CEMENT	(11) EP3622237 (21) EP18799364.7 (47) 12.07.2023 (87) SE2018050488 15.11.2018 (22) 11.05.2018	

(72) SORIANO, Olivier ROUGE, Sylvie (31) 1915349 (32) 20.12.2019 (33) France	(22) 24.07.2015 (54) HEAT EXCHANGE ELEMENT (73) KST AG (72) Schönbächler, Beat Müller, Remo	Kroyer, Josef
(51) F28D 20/02 (11) EP3874220 (21) EP19797852.1 (47) 12.07.2023 (87) SE2019051077 07.05.2020 (22) 29.10.2019 (54) THERMAL ENERGY STORAGE ASSEMBLY (73) Azelio AB (72) RILBY, Erik GLOSS, Daniel LINDQUIST, Torbjörn WIKSTRÖM, Henrik (31) 1950569 1851339 1851338 (32) 14.05.2019 29.10.2018 29.10.2018 (33) Sweden Sweden Sweden	(51) F28F 3/02 F28F 3/00 F28D 7/08 F28D 9/00 F28F 3/12 F28F 9/02 (11) EP3911908 (21) EP21740964.8 (47) 12.07.2023 (87) US2021013804 22.07.2021 (22) 18.01.2021 (54) AIRCRAFT HEAT EXCHANGER (73) Raytheon Technologies Corporation (72) HART, Patrick, M. WIEDENHOEFER, James, F. BERGMAN, Russell, J. (31) 202062963072 P (32) 19.01.2020 (33) United States of America	(51) F41A 23/36 F41A 23/02 F41A 23/34 F41A 23/52 H01Q 1/12 H01Q 3/06 (11) EP3692322 (21) EP17927914.6 (47) 12.07.2023 (87) SE2017050969 11.04.2019 (22) 04.10.2017 (54) A PLATFORM AND ELEVATION SUPPORT ARRANGEMENT WHEREIN THE ELEVATION SUPPORT IS LOCKED TO THE PLATFORM IN A FIXED POSITION BY MEANS OF AN ADJUSTABLE LOCKING MECHANISM (73) SAAB AB (72) ISAKSSON, Omar ÖSTBERG, Johan
(51) F28D 20/02 H01M 50/50 F28D 21/00 H05K 7/20 H01F 27/08 B60L 53/16 (11) EP4123253 (21) EP21186662.9 (47) 12.07.2023 (22) 20.07.2021 (54) MULTI-LAYER LATENT HEAT STORAGE (73) Rosenberger Hochfrequenztechnik GmbH & Co. KG (72) KOLEBER, Alexander WINTERHOLLER, Waldemar	(51) F28F 9/013 F16L 3/22 F16L 58/18 F16L 3/18 (11) EP3894773 (21) EP19896531.1 (47) 12.07.2023 (87) NO2019050273 18.06.2020 (22) 12.12.2019 (54) SUBMERGED COOLER ARRANGEMENTS (73) Future Technology AS (72) HJELMELAND, Jan Thore JACOBSEN, André (31) 20181617 (32) 14.12.2018 (33) Norway	(51) F41B 11/50 F41B 11/56 F41B 11/62 F41B 11/722 F41A 9/75 F41A 9/67 F41A 9/69 (11) EP3504502 (21) EP17847409.4 (47) 12.07.2023 (87) US2017049214 08.03.2018 (22) 29.08.2017 (54) NON-LETHAL GAS OPERATED GUN (73) Unit Solutions, Inc. (72) LEON, Nathaniel Jacob BLODGETT, Christopher MILLER, Charles SANDGREN, Glenn TOBON, Juan D. LUBY, Daniel (31) 201662380947 P (32) 29.08.2016 (33) United States of America
(51) F28F 1/12 F28D 1/053 (11) EP2140219 (21) EP08757927.2 (47) 12.07.2023 (87) DE2008000613 23.10.2008 (22) 11.04.2008 (54) MOTOR VEHICLE (73) AutomotiveThermoTech GmbH (72) HIMMELSBACH, Johann (31) 102008003149 102008003151 102007017567 (32) 03.01.2008 03.01.2008 12.04.2007 (33) Germany Germany Germany	(51) F28F 27/02 F28D 21/00 (11) EP3286515 (21) EP16756293.3 (47) 12.07.2023 (87) US2016019391 01.09.2016 (22) 24.02.2016 (54) METHODS OF DYNAMICALLY EXCHANGING HEAT AND SYSTEMS (73) Sustainable Energy Solutions, Inc. (72) BAXTER, Larry L. (31) 201562120336 P (32) 24.02.2015 (33) United States of America	(51) F41C 23/04 F41C 23/16 (11) EP3660441 (21) EP19207544.8 (47) 12.07.2023 (22) 06.11.2019 (54) DEVICE FOR DEPLOYING A DEPLOYABLE ELEMENT, IN PARTICULAR A HANDLE, FOR A WEAPON SYSTEM (73) MBDA France (72) LAHEYNE, Clyde CESAR, Grégory CHAPIN, Lucas (31) 1871885 (32) 28.11.2018 (33) France
(51) F28F 1/14 (11) EP3121549 (21) EP15178349.5 (47) 12.07.2023	(51) F41A 3/66 F41A 11/00 F41A 35/02 (11) EP4001823 (21) EP20209578.2 (47) 12.07.2023 (22) 24.11.2020 (54) MULTIFUNCTION COVER PLATE (73) Glock Technology GmbH (72) Oppenauer, Leopold	(51) F41H 9/06 A63J 5/02 (11) EP3710773 (21) EP18821759.0 (47) 12.07.2023

(87) IT2018000141 16.05.2019	G01B 9/021 G01M 11/02	G01B 11/02 G01B 11/24
(22) 26.10.2018	(11) EP3084344	G01B 11/245
(54) FOG-GENERATING DEVICE	(21) EP14820851.5	G01B 11/25
(73) UR Fog S.r.l.	(47) 12.07.2023	(11) EP3775773
(72) BALESTRINI, Giovanni	(87) EP2014078678	(21) EP19722502.2
GATTONI, Luca	25.06.2015	(47) 12.07.2023
(31) 201700128910	(22) 19.12.2014	(87) DE2019000091
(32) 13.11.2017	(54) METHOD FOR MEASURING A	03.10.2019
(33) Italy	SPHERICAL-ASTIGMATIC OPTICAL	(22) 26.03.2019
(51) F41H 13/00	AREA	(54) 3D OBJECT-SENSING SYSTEM
(11) EP3593082	(73) Carl Zeiss SMT GmbH	(73) Twinner GmbH
(21) EP18702497.1	(72) SCHULTE, Stefan	(72) BUGOVICS, Jozsef
(47) 12.07.2023	SCHILLKE, Frank	(31) 102018002622
(87) EP2018052400	(31) 102013226668	(32) 29.03.2018
13.09.2018	(32) 19.12.2013	(33) Germany
(22) 31.01.2018	(33) Germany	(51) G01C 21/34
(54) WEAPONS SYSTEM HAVING AT	(51) G01B 11/06	G01C 21/36
LEAST TWO HEL EFFECTORS	G02B 21/00	G01C 21/32
(73) Rheinmetall Waffe Munition GmbH	(11) EP3940336	(11) EP3967978
(72) LUDEWIGT, Klaus	(21) EP20769637.8	(21) EP21196575.1
JUNG, Markus	(47) 12.07.2023	(47) 12.07.2023
(31) 102017104662	(87) JP2020006434	(22) 14.09.2021
(32) 06.03.2017	17.09.2020	(54) DETECTING A CONSTRUCTION ZONE
(33) Germany	(22) 19.02.2020	BY A LEAD AUTONOMOUS VEHICLE
(51) F41J 3/00	(54) SENSOR HEAD	(AV) AND UPDATING ROUTING PLANS
(11) EP3842729	(73) OMRON Corporation	FOR FOLLOWING AUTONOMOUS
(21) EP20215410.0	(72) FURUKAWA, Shinya	VEHICLES (AVS)
(47) 12.07.2023	(31) 2019045729	(73) Tusimple, Inc.
(22) 18.12.2020	(32) 13.03.2019	(72) TAM, Joyce
(54) DART BOARD RING	(33) Japan	BROWN, Robert P.
(73) Nodor International Limited	(51) G01B 11/24	FOSTER, Scott
(72) BLUCK, Alex	G01N 21/86	(31) 202017021991
HUXTABLE, Lee	G01B 21/04	202017021981
(31) 201919197	(11) EP3775763	202017021963
(32) 23.12.2019	(21) EP19718895.6	202017021934
(33) United Kingdom	(47) 12.07.2023	(32) 15.09.2020
(51) G01B 7/02	(87) EP2019059044	15.09.2020
G01B 7/14	17.10.2019	15.09.2020
(11) EP3745079	(22) 10.04.2019	15.09.2020
(21) EP19216232.9	(54) ARRANGEMENT AND METHOD FOR	(33) United States of America
(47) 12.07.2023	CONTACTLESS DETERMINATION OF A	United States of America
(22) 13.12.2019	DIMENSION OF A MOVING MATERIAL	United States of America
(54) ESTIMATION OF GAP BETWEEN A	WEB	United States of America
PROXIMITY SENSOR AND TARGET	(73) IMS Messsysteme GmbH	(51) G01C 23/00
(73) Simmonds Precision Products, Inc.	(72) KRAUTHÄUSER, Horst	(11) EP3637058
(72) DEWIND, Eric	(31) 102018108696	(21) EP19202521.1
DION, Bernard	(32) 12.04.2018	(47) 12.07.2023
(31) 201916428331	(33) Germany	(22) 10.10.2019
(32) 31.05.2019	(51) G01B 17/00	(54) VISION GUIDANCE SYSTEMS FOR
(33) United States of America	G21C 17/017	AIRCRAFT
(51) G01B 7/34	G01P 13/04	(73) Bombardier Inc.
G01B 5/28	(11) EP3655722	(72) SCHLEGEL, Mark
(11) EP3784979	(21) EP18835041.7	LEBEGUE, Olivier
(21) EP19727713.0	(47) 12.07.2023	MARTIN, Christopher
(47) 12.07.2023	(87) CA2018050873	WONG, Natalie W.
(87) GB2019051130	24.01.2019	BARBER, Anthony J.
31.10.2019	(22) 18.07.2018	BERGERON, Marc
(22) 23.04.2019	(54) METHODS AND APPARATUS FOR	COLQUHOUN, William Murray
(54) SURFACE FINISH STYLUS	DETECTION AND POSITIONING OF	BAE, Nami
(73) Renishaw PLC	OBJECTS BY VIBRATION	NAIPAUL, Jason
(72) LUMMES, Stephen, Edward	(73) Candu Energy Inc.	(31) 201862744411 P
HOLMES, Mark, James, Andrew	(72) SZCZEPAN, Andrew	(32) 11.10.2018
(31) 201806828	VIDICAN, Razvan	(33) United States of America
(32) 26.04.2018	(31) 201762534184 P	(51) G01C 25/00
(33) United Kingdom	(32) 18.07.2017	G01P 21/00
(51) G01B 9/02	(33) United States of America	G01C 21/16
	(51) G01B 21/20	(11) EP3335010

(21) EP16750236.8	(31) 08018761	(54) WIRELESS MONITORING AND
(47) 12.07.2023	(32) 28.10.2008	PROFILING OF REACTOR
(87) GB2016052439	(33) European Patent Office (EPO)	CONDITIONS USING PLURALITY OF
16.02.2017	(51) G01D 5/244	SENSOR-ENABLED RFID TAGS AND
(22) 05.08.2016	G01D 11/24	MULTIPLE TRANSCEIVERS
(54) INERTIAL SENSOR	(11) EP4086584	(73) Shell Internationale Research
(73) Atlantic Inertial Systems Limited	(21) EP21172372.1	Maatschappij B.V.
(72) GREGORY, Christopher	(47) 12.07.2023	(72) VOGT, Kaspar Joseph
(31) 201514321	(22) 06.05.2021	(31) 201862616155 P
(32) 12.08.2015	(54) ASSEMBLY WITH A ROTARY	(32) 11.01.2018
(33) United Kingdom	ENCODER AND A TOLERANCE	(33) United States of America
(51) G01D 3/08	SLEEVE	(51) G01F 1/00
G01D 18/00	(73) Dr. Johannes Heidenhain GmbH	G01N 11/08
(11) EP3911922	(72) RIEPERTINGER, Sebastian	G01F 1/34
(21) EP19832655.5	MIX, Stephan	G01N 11/00
(47) 12.07.2023	JÄGER, Thomas	(11) EP3614123
(87) EP2019086233	(51) G01D 5/347	(21) EP18783849.5
23.07.2020	(11) EP3617661	(47) 12.07.2023
(22) 19.12.2019	(21) EP19193598.0	(87) KR2018004117
(54) APPARATUS FOR PROVIDING A	(47) 12.07.2023	18.10.2018
SENSOR SIGNAL FOR EVALUATION	(22) 26.08.2019	(22) 09.04.2018
FOR A BRAKING SYSTEM OF A	(54) ABSOLUTE POSITION DETECTION	(54) METHOD AND SYSTEM FOR
VEHICLE, METHOD AND CONTROL	APPARATUS AND METHOD, AND	MEASURING VISCOSITY IN
UNIT FOR EVALUATING A SENSOR	COMPUTER PROGRAM	CONTINUOUS FLOW FIELD
SIGNAL FOR A BRAKING SYSTEM OF	(73) CANON KABUSHIKI KAISHA	(73) Industry-Academic Cooperation
A VEHICLE, AND BRAKING SYSTEM	(72) NOGUCHI, Kazuhiro	Foundation Gyeongsang National
FOR A VEHICLE	(31) 2018157893	University
(73) KNORR-BREMSE Systeme für	(32) 27.08.2018	(72) JANG, Hye Gyeong
Nutzfahrzeuge GmbH	(33) Japan	HWANG, Wook Ryol
(72) SCHOLL, Frank	(51) G01D 11/24	(31) 20170154237
WINZ, Dieter	G01D 5/244	20170048086
(31) 102019101352	(11) EP3443305	(32) 17.11.2017
(32) 18.01.2019	(21) EP17725293.9	13.04.2017
(33) Germany	(47) 12.07.2023	(33) Korea (Republic)
(51) G01D 4/00	(87) FR2017050888	Korea (Republic)
H04B 7/02	19.10.2017	(51) G01F 1/84
(11) EP3971531	(22) 13.04.2017	G01F 15/02
(21) EP21195698.2	(54) SELF-CONTAINED DETECTOR, AND	G01F 25/00
(47) 12.07.2023	MAPPING DEVICE AND METHOD	G01N 9/00
(22) 09.09.2021	INCLUDING SUCH A DETECTOR	(11) EP3268703
(54) METHOD FOR OPERATING A SECTOR	(73) Lissandre, Marie-Anne	(21) EP15884941.4
ANTENNA ARRANGEMENT AND A	Ballier, Aurélien	(47) 12.07.2023
SECTOR ANTENNA ARRANGEMENT	(72) Lissandre, Marie-Anne	(87) CN2015074155
(73) Diehl Metering Systems GmbH	Ballier, Aurélien	22.09.2016
(72) Tränkler, Michael	(31) 1653248	(22) 13.03.2015
Winter, Stefanie	(32) 13.04.2016	(54) TEMPERATURE COMPENSATION
(31) 102020124638	(33) France	OF A SIGNAL IN A VIBRATORY
(32) 22.09.2020	(51) G01D 11/24	FLOWMETER
(33) Germany	G01D 13/00	(73) Micro Motion, Inc.
(51) G01D 4/00	G01K 1/08	(72) WANG, Lingjun
H04W 60/00	G01L 19/14	LIU, Huan
H04W 8/08	(11) EP3945292	SHEN, Kai
H04W 74/00	(21) EP20188382.4	LI, Xin
(11) EP3457090	(47) 12.07.2023	MAGINNIS, Richard L.
(21) EP18198080.6	(22) 29.07.2020	(51) G01F 22/00
(47) 12.07.2023	(54) MEASUREMENT ASSEMBLY WITH A	G01F 17/00
(22) 28.10.2009	SENSOR WITHIN A HOUSING	G01F 13/00
(54) TELECOMMUNICATIONS	(73) MP-Sensor GmbH	B65D 88/78
NETWORK AND METHOD OF	(72) Ulrich, Thomas	(11) EP3847424
TRANSFERRING USER DATA IN	(51) G01D 21/00	(21) EP19744765.9
SIGNALLING MESSAGES FROM A	B01J 8/02	(47) 12.07.2023
COMMUNICATION UNIT TO A DATA	(11) EP3738077	(87) FR2019051543
PROCESSING CENTRE	(21) EP19703425.9	12.03.2020
(73) Nederlandse Organisatie voor toegepast-	(47) 12.07.2023	(22) 24.06.2019
natuurwetenschappelijk onderzoek TNO	(87) US2019012853	(54) METHOD AND DEVICE FOR
Koninklijke KPN N.V.	18.07.2019	DETERMINING THE VOLUME OF
(72) VAN LOON, Johannes Maria	(22) 09.01.2019	LIQUID REMAINING INSIDE A
BUSROPAN, Bryan Jerrel		



FLEXIBLE LIQUID-DISPENSING POUCH	Kallmann, Luca	(72) SCHMIDT, Wolfgang
(73) SAIPEM S.A.	(51) G01G 21/28	SCHILZ, Juergen
(72) DELAPLACE, Thomas	G01G 23/48	BARLOW, Mr. Arthur
(31) 1858050	(11) EP3921609	(31) 201615004183
(32) 07.09.2018	(21) EP20704455.3	(32) 22.01.2016
(33) France	(47) 12.07.2023	(33) United States of America
(51) G01F 23/263	(87) EP2020052678	(51) G01K 1/16
(11) EP3861303	13.08.2020	G01K 1/143
(21) EP19794652.8	(22) 04.02.2020	G01K 7/42
(47) 12.07.2023	(54) GRAVIMETRIC MEASURING SYSTEM	(11) EP3850319
(87) IB2019058430	(73) Sartorius Lab Instruments GmbH & Co.	(21) EP18810893.0
09.04.2020	KG	(47) 12.07.2023
(22) 03.10.2019	(72) STÄNDER, Malte	(87) EP2018080791
(54) A CAPACITIVE SENSOR FOR DETECTION OF THE LEVEL OF A MEDIUM	VON STEUBEN, Jan	14.05.2020
(73) Eltek S.p.A.	HOLST, Heyko	(22) 09.11.2018
(72) PIZZI, Marco	LAUBSTEIN, Michael	(54) ASSEMBLY FOR DETERMINING THE TEMPERATURE OF A SURFACE
ZORZETTO, Mauro	FELDOTTE, Heinrich	(73) Siemens Energy Global GmbH & Co. KG
RONDANO, Matteo	(31) 102019102810	(72) ARMSCHAT, Christoph
FAGNOLA, Giorgio	(32) 05.02.2019	WEIGT, Uwe
(31) 201800009140	(33) Germany	
(32) 03.10.2018	(51) G01H 3/00	(51) G01K 1/18
(33) Italy	G01H 1/00	G01K 13/02
(51) G01F 23/30	G01R 31/00	B82Y 40/00
G01F 23/58	(11) EP3794361	(11) EP3593102
A01G 27/00	(21) EP19725951.8	(21) EP18712115.7
(11) EP3353509	(47) 12.07.2023	(47) 12.07.2023
(21) EP16849759.2	(87) EP2019062514	(87) EP2018055839
(47) 12.07.2023	21.11.2019	13.09.2018
(87) US2016053468	(22) 15.05.2019	(22) 08.03.2018
30.03.2017	(54) STATE ANALYSIS OF AN INDUCTIVE OPERATING RESOURCE	(54) MEASUREMENT ARRANGEMENT AND METHOD FOR MEASURING PROPERTIES OF A FLOWING MEDIUM
(22) 23.09.2016	(73) Maschinenfabrik Reinhausen GmbH	(73) NanoWired GmbH
(54) LIQUID LEVEL INDICATOR	(72) SAVELIEV, Anatoli	(72) QUEDNAU, Sebastian
(73) Dotchi, LLC	VIERECK, Karsten	DASSINGER, Florian
Tchira, Harry	(31) 102018112003	SCHLAAK, Helmut F.
(72) TCHIRA, Harry	(32) 18.05.2018	BIRLEM, Olav
(31) 201514864362	(33) Germany	ROUSTAIE, Farough
(32) 24.09.2015	(51) G01J 3/02	(31) 102017104904
(33) United States of America	G01J 3/14	(32) 08.03.2017
(51) G01F 25/10	G01J 3/28	(33) Germany
G01F 1/667	(11) EP3425354	(51) G01L 5/00
(11) EP3745099	(21) EP18180891.6	G01L 1/22
(21) EP20187823.8	(47) 12.07.2023	H05K 13/04
(47) 12.07.2023	(22) 29.06.2018	(11) EP3734246
(22) 23.10.2014	(54) BROADBAND HYPERSPECTRAL SPECTROPHOTOMETER	(21) EP18893561.3
(54) SELF-CHECKING FLOW METER AND METHOD	(73) Centre National d'Etudes Spatiales	(47) 12.07.2023
(73) Sensia Netherlands B.V.	SORBONNE UNIVERSITE	(87) JP2018047711
(72) AUGENSTEIN, Donald R.	CENTRE NATIONAL DE LA	04.07.2019
BROWN, Gregor J.	RECHERCHE SCIENTIFIQUE	(22) 26.12.2018
(31) 201414153809	(72) BOURCIER, Frédéric	(54) MULTIAXIAL ACTUATOR COMPRISING A LOAD SENSOR
(32) 13.01.2014	WALTER, Philippe	(73) Minebea Mitsumi Inc.
(33) United States of America	(31) 1756384	(72) LI, Kui
(51) G01G 3/14	(32) 06.07.2017	EGUCHI, Kotaro
G01G 21/24	(33) France	(31) 2017250059
G01L 1/22	(51) G01J 5/12	(32) 26.12.2017
(11) EP3845872	G01J 5/14	(33) Japan
(21) EP19220094.7	G01J 5/00	(51) G01M 1/00
(47) 12.07.2023	G01J 5/0806	G01M 17/00
(22) 30.12.2019	G08B 13/193	(11) EP3736554
(54) WEIGHING CELL	G01J 5/06	(21) EP19382348.1
(73) Bizerba SE & Co. KG	(11) EP3196614	(47) 12.07.2023
(72) Metzger, Frank	(21) EP17152395.4	(22) 07.05.2019
Fritsch, Andreas	(47) 12.07.2023	(54) NON-IMPACT METHODS AND DEVICES FOR TESTING THE RIGIDITY AND / OR THE STABILITY OF ONE OR MORE LOADS
Witte, Harald	(22) 20.01.2017	
	(54) MOTION AND PRESENCE DETECTOR	
	(73) Excelitas Technologies Singapore Pte. Ltd.	

(73) Safe Load Testing Technologies, S.L.	(33) Japan	201862735375 P
(72) MORA MARTÍN, Carlos	(51) G01N 1/02	(32) 16.08.2019
ORERO CANET, Carlos	G01N 1/08	24.09.2018
GARCÍA-ROMEU MARTÍNEZ, Manuel	B63C 11/52	(33) United States of America
Alfredo	B63G 8/00	United States of America
TELLECHEA ZUGARRAMURDI, Alberto	(11) EP3601993	(51) G01N 15/06
DE LA CRUZ NAVARRO, Enrique	(21) EP18775882.6	(11) EP3827244
MADRIGAL MENESES, Antonio	(47) 12.07.2023	(21) EP19726639.8
(51) G01M 3/00	(87) IB2018000412	(47) 12.07.2023
(11) EP3990881	04.10.2018	(87) EP2019063184
(21) EP20747453.7	(22) 30.03.2018	30.01.2020
(47) 12.07.2023	(54) UNDERWATER SAMPLING DEVICES	(22) 22.05.2019
(87) FR2020051117	AND METHODS THEREOF	(54) ASSEMBLY OF A CONTROL UNIT
30.12.2020	(73) Cellula Robotics, Ltd.	AND OF A SOOT PARTICLE SENSOR
(22) 26.06.2020	(72) WOODROFFE, Adrian	AND METHOD FOR OPERATING THE
(54) METHOD AND A SYSTEM FOR	PRUNIAUNU, Paul	ASSEMBLY
MONITORING THE STATE OF AN	DORODUGAR, Sina	(73) Robert Bosch GmbH
EXCHANGER IN AN AIR CIRCUIT OF	JACKSON, James Eric	(72) SCHOLL, Michael
AN AIRCRAFT	(31) 201762479501 P	KAMP, Bernhard
(73) Liebherr-Aerospace Toulouse SAS	(32) 31.03.2017	(31) 102018212268
(72) CASTELEIN, Alexis	(33) United States of America	(32) 24.07.2018
DUBAELE, Didier	(51) G01N 1/40	(33) Germany
MOREL, Fanny	H01J 49/04	(51) G01N 15/14
RIBEIRO, José	(11) EP3094958	G01N 15/10
CANOQUET, Nicolas	(21) EP15701905.0	B03C 1/033
(31) 1907020	(47) 12.07.2023	B03C 1/28
(32) 27.06.2019	(87) US2015011393	(11) EP3479097
(33) France	23.07.2015	(21) EP17748584.4
(51) G01M 13/028	(22) 14.01.2015	(47) 12.07.2023
G01H 17/00	(54) SAMPLE COLLECTION IN COMPACT	(87) US2017040322
F02C 7/24	MASS SPECTROMETRY SYSTEMS	04.01.2018
(11) EP3814739	(73) Blank, Cyril P.	(22) 30.06.2017
(21) EP19841127.4	Jobin, Michael	(54) DEVICES FOR CONCENTRATION OF
(47) 12.07.2023	Goodwin, Michael	PARTICLES
(87) IN2019050533	Brown, Christopher D.	(73) Life Technologies Corporation
30.01.2020	Harris, Glenn A.	(72) SELBERG, Saul
(22) 22.07.2019	Knopp, Kevin J.	MALKIN, Jason
(54) SYSTEM AND METHOD FOR	908 Devices Inc.	WARD, Michael
PREDETERMINING THE ONSET	Liepert, Anthony G.	LEFTON, Ken
OF IMPENDING OSCILLATORY	(72) HARRIS, Glenn A.	(31) 201662357440 P
INSTABILITIES	BLANK, Cyril P.	(32) 01.07.2016
(73) Indian Institute Of Technology Madras	JOBIN, Michael	(33) United States of America
(IIT Madras)	GOODWIN, Michael	(51) G01N 15/14
(72) RAJASEKHARAN UNNI, Vishnu	BROWN, Christopher D.	G01N 15/10
PILLAI INDUSEKHARAN NAIR SUJITH,	LIEPERT, Anthony G.	G01N 15/00
Raman	KNOPP, Kevin J.	(11) EP3227662
PAVITHRAN, Induja	(31) 201461927470 P	(21) EP15865108.3
(31) 201843027574	(32) 14.01.2014	(47) 12.07.2023
(32) 23.07.2018	(33) United States of America	(87) US2015058842
(33) India	(51) G01N 1/44	09.06.2016
(51) G01M 13/045	G01N 1/20	(22) 03.11.2015
G01H 1/00	H05B 1/02	(54) FLOW CYTOMETRY CELL SORTING
(11) EP3605037	H05B 3/06	SYSTEMS AND METHODS OF USING
(21) EP18772138.6	H05B 3/42	THE SAME
(47) 12.07.2023	G01N 30/12	(73) Becton, Dickinson and Company
(87) JP2018006829	(11) EP3857113	(72) AZERSKY, Vladimir
27.09.2018	(21) EP19865897.3	FAINSHTEIN, Alexander
(22) 23.02.2018	(47) 12.07.2023	(31) 201462087662 P
(54) MACHINE COMPONENT DIAGNOSIS	(87) US2019047841	(32) 04.12.2014
SYSTEM	02.04.2020	(33) United States of America
(73) NSK Ltd.	(22) 23.08.2019	(51) G01N 17/00
(72) MIYASAKA, Takanori	(54) LIQUID VAPORIZATION DEVICE AND	(11) EP4031851
YOSHIMATSU, Osamu	METHOD	(21) EP20788714.2
SATO, Yoshihiro	(73) Mustang Sampling, LLC	(47) 12.07.2023
WEN, Yingyi	(72) WARNER, Kevin	(87) EP2020076055
MUTO, Yasushi	PALUCH, William C.	25.03.2021
(31) 2017059297	THOMPSON, Kenneth O.	(22) 17.09.2020
(32) 24.03.2017	(31) 201916542666	(54) MOUNTABLE SENSOR

(73) Trisense AS	G01N 21/27	(54) ENSEMBLE COMPRISING A
(72) GISMERVIK, Øystein	G01N 21/31	CONTAINER AND A PORTABLE
SANDØ, Jørn	(11) EP3511697	DEVICE FOR TESTING AN
(31) 19197862	(21) EP18151391.2	ALCOHOLIC BEVERAGE THROUGH
(32) 17.09.2019	(47) 12.07.2023	THE CONTAINER, ASSOCIATED
(33) European Patent Office (EPO)	(22) 12.01.2018	SYSTEM AND METHOD
(51) G01N 21/03	(54) ASSEMBLY AND METHOD FOR	(73) Institut Polytechnique de Bordeaux
B05D 5/06	ANALYSING A FLUID	Martell & Co
B01L 3/00	(73) Fraunhofer-Gesellschaft zur Förderung	Centre National de la Recherche
G01N 21/11	der angewandten Forschung e.V.	Scientifique
(11) EP3230714	Drägerwerk AG & Co. KGaA	Université de Bordeaux
(21) EP15866433.4	(72) Peter, Gerd	(72) BRUNEEL, Jean-Luc
(47) 12.07.2023	Ferstl, Margit	BRUNEEL DELHAYE, Caroline
(87) AU2015000738	(51) G01N 21/3504	BRUNERIE, Pascal
16.06.2016	G01N 21/39	GUILLAUME, François
(22) 08.12.2015	G01J 3/433	FIL, Benoit
(54) CUVETTE FOR OPTICAL	G01J 3/10	VERGER, Stephane
SPECTROSCOPY	G01J 1/42	GOURET, Katia
(73) University Of South Australia	(11) EP3467477	(31) 1557433
(72) PRIEST, Craig Ian	(21) EP18198170.5	(32) 31.07.2015
KRIEL, Frederick Hermanus	(47) 12.07.2023	(33) France
HOLZNER, Gregor	(22) 02.10.2018	(51) G01N 21/71
(31) 2014905004	(54) ANALYSIS APPARATUS AND	G01N 21/84
(32) 10.12.2014	ANALYSIS METHOD	G01N 21/88
(33) Australia	(73) Horiba, Ltd.	G01N 1/34
(51) G01N 21/17	(72) NISHIMURA, Katsumi	G01J 3/02
G01N 21/47	FUKUSHIRO, Kensuke	B07C 5/342
G01B 9/02	OHTA, Toshio	G01N 21/85
G01N 33/483	SHIBUYA, Kyoji	(11) EP3344977
(11) EP3330696	(31) 2017193619	(21) EP16840957.1
(21) EP18154094.9	(32) 03.10.2017	(47) 12.07.2023
(47) 12.07.2023	(33) Japan	(87) IB2016055289
(22) 10.12.2009	(51) G01N 21/64	09.03.2017
(54) SYSTEMS, APPARATUS AND	B01L 3/00	(22) 02.09.2016
METHODS FOR EXTENDING	G02B 6/12	(54) METHOD AND SYSTEM FOR
IMAGING DEPTH RANGE OF OPTICAL	H01L 27/146	ANALYSIS OF SAMPLES USING
COHERENCE TOMOGRAPHY	G01N 21/05	LASER INDUCED BREAKDOWN
THROUGH OPTICAL SUB-SAMPLING	G01J 1/44	SPECTROSCOPY
(73) The General Hospital Corporation	(11) EP3783340	(73) Elemission Inc.
(72) BOUMA, Brett E.	(21) EP20201390.0	(72) DOUCET, François
TEARNEY, Guillermo, J.	(47) 12.07.2023	ÖZCAN, Lütfü Çelebi
VAKOC, Benjamin, J.	(22) 24.12.2018	(31) 201562213431 P
OH, Wang, Y.	(54) LIGHT DETECTION DEVICES WITH	(32) 02.09.2015
(31) 121312 P	PROTECTIVE LINER AND METHODS	(33) United States of America
(32) 10.12.2008	RELATED TO SAME	(51) G01N 21/90
(33) United States of America	(73) Illumina, Inc.	G01N 21/3504
(51) G01N 21/31	(72) Fung, Tracy Helen	G01M 3/32
G01N 21/552	Cai, Xiuyu	G01M 3/38
G01N 21/65	Pinto, Joseph Francis	G01N 21/01
G01N 21/77	Baker, Thomas A.	G01N 21/39
G01N 33/497	(31) 2020612	(11) EP3803352
G01N 21/25	201816216014	(21) EP19733405.5
G01N 21/03	201762609889 P	(47) 12.07.2023
G01N 21/85	(32) 19.03.2018	(87) EP2019064696
B82Y 20/00	11.12.2018	12.12.2019
(11) EP3137880	22.12.2017	(22) 05.06.2019
(21) EP15733478.0	(33) Netherlands	(54) APPARATUS FOR DETECTING A GAS
(47) 12.07.2023	United States of America	IN A HEADSPACE OF A CONTAINER
(87) GB2015051244	United States of America	(73) Wilco AG
05.11.2015	(51) G01N 21/64	(72) KAHL, Matthias
(22) 29.04.2015	G01N 21/27	HERDLITSCHKA, Christophe
(54) SENSING METHODS AND APPARATUS	G01N 33/14	(31) 7382018
(73) SensorHut Ltd.	(11) EP3329257	(32) 07.06.2018
(72) HUTTER, Tanya	(21) EP16763889.9	(33) Switzerland
(31) 201407770	(47) 12.07.2023	(51) G01N 23/201
(32) 02.05.2014	(87) FR2016051971	(11) EP3745121
(33) United Kingdom	09.02.2017	(21) EP20171410.2
(51) G01N 21/3504	(22) 28.07.2016	(47) 12.07.2023

(22) 24.04.2020	(31) 2018052229	19.09.2019
(54) X-RAY SCATTERING METHOD AND SYSTEM FOR NON- DESTRUCTIVELY INSPECTING BOND LINE AND POROSITY	2018050153	(22) 10.03.2019
(73) The Boeing Company	(32) 20.03.2018	(54) DEVICE FOR EXAMINING HATCHING EGGS
(72) SAFAI, Morteza	16.03.2018	(73) EVONTA-Technology GmbH
(31) 201916426070	(33) Japan	(72) MEISSNER, Sven
(32) 30.05.2019	Japan	FISCHER, Björn
(33) United States of America	(51) G01N 27/447	(31) 202018001316 U
(51) G01N 23/2252	G01N 1/28	102018001987
G01N 23/2209	G01N 1/40	(32) 11.03.2018
(11) EP3671191	B01D 57/02	11.03.2018
(21) EP19216693.2	(11) EP3497435	(33) Germany
(47) 12.07.2023	(21) EP17840619.5	Germany
(22) 16.12.2019	(47) 12.07.2023	(51) G01N 33/24
(54) CALIBRATION METHOD EXECUTED IN AN ANALYSIS DEVICE	(87) AU2017050861	G01N 27/02
(73) JEOL Ltd.	(22) 15.08.2017	(11) EP3701253
(72) MURANO, Takanori	(54) INORGANIC ION DETECTION SYSTEM AND METHODS	(21) EP18871317.6
(31) 2018236568	(73) University Of Tasmania	(47) 12.07.2023
(32) 18.12.2018	(72) BLANCO-HERAS, Gustavo	(87) US2018057876
(33) Japan	ZAKARIA, Philip James Charles	02.05.2019
(51) G01N 27/02	BREADMORE, Michael Charles	(22) 26.10.2018
G01R 27/02	(31) 2017902304	(54) SYSTEM FOR MEASURING SOIL ELECTRICAL CONDUCTIVITY
(11) EP3584568	2016903232	(73) Tribus, LLC
(21) EP19173842.6	(32) 16.06.2017	(72) KISS, Michael, Z.
(47) 12.07.2023	15.08.2016	(31) 201762577637 P
(22) 10.05.2019	(33) Australia	(32) 26.10.2017
(54) APPARATUS AND METHOD FOR MEASURING IMPEDANCE	Australia	(33) United States of America
(73) Samsung Electronics Co., Ltd.	(51) G01N 29/11	(51) G01N 33/48
(72) KIM, Jong Pal	E03B 7/00	G01N 33/543
(31) 20180139270	G01N 29/04	G01N 33/574
20180070409	G01N 29/22	C12Q 1/06
(32) 13.11.2018	G01N 29/44	(11) EP3586129
19.06.2018	G01B 17/08	(21) EP18776445.1
(33) Korea (Republic)	G01B 21/14	(47) 12.07.2023
Korea (Republic)	G01N 29/032	(87) US2018024796
(51) G01N 27/26	(11) EP3311153	04.10.2018
G01N 27/453	(21) EP16812182.0	(22) 28.03.2018
G01N 33/68	(47) 12.07.2023	(54) METHOD FOR ACCURATE DIAGNOSIS OF A DISEASE TARGETING BIOMARKERS IN LIQUID BIOPSY
(11) EP3639017	(87) US2016036856	(73) Phase Scientific International, Ltd.
(21) EP18818752.0	22.12.2016	(72) CHIU, Yin, To
(47) 12.07.2023	(22) 10.06.2016	(31) 201762560180 P
(87) CN2018091116	(54) DETERMINATION OF TUBERCULATION IN A FLUID DISTRIBUTION SYSTEM	201762478021 P
20.12.2018	(73) Mueller International, LLC	(32) 18.09.2017
(22) 13.06.2018	(72) YUSUF, Shabbir	28.03.2017
(54) RAPID BLOTTING DEVICE AND APPLICATIONS THEREOF	RICHARZ, Werner Guenther	(33) United States of America
(73) Nanjing GenScript Biotech Co., Ltd.	(31) 201514740902	United States of America
(72) WANG, Chao	(32) 16.06.2015	(51) G01N 33/50
CHEN, Xin	(33) United States of America	B01L 3/00
(31) PCT/CN2017/088098	(51) G01N 33/02	(11) EP3301443
(32) 13.06.2017	G01N 17/00	(21) EP17189342.3
(33) World Intellectual Property Office (WIPO)	(11) EP3875953	(47) 12.07.2023
(51) G01N 27/36	(21) EP20161355.1	(22) 05.09.2017
G01N 27/38	(47) 12.07.2023	(54) MEDICAL ANALYSIS DEVICE AND CELL ANALYSIS METHOD
(11) EP3540424	(22) 06.03.2020	(73) Sumitomo Rubber Industries, Ltd.
(21) EP19163186.0	(54) ACCELERATED STORAGE TEST	Yamagata University
(47) 12.07.2023	(73) DMK Deutsches Milchkontor GmbH	(72) SHIBUYA, Tomokazu
(22) 15.03.2019	(72) Zink, Ralf	MINAGAWA, Yasuhisa
(54) ELECTRODE DEVICE WITH ANTIFOULING MECHANISM ON THE BASIS OF ULTRAVIOLET RAYS	Bode, Katja	HOSHIBA, Takashi
(73) HORIBA Advanced Techno, Co., Ltd.	(51) G01N 33/08	TANAKA, Masaru
(72) EHARA, Katsunobu	A01K 45/00	(31) 2017144556
NISHIO, Yuji	G01N 21/31	2016191617
	(11) EP3765843	(32) 26.07.2017
	(21) EP19720765.7	29.09.2016
	(47) 12.07.2023	(33) Japan
	(87) DE2019000065	

Japan	UTZ, Begüm	(72) JAKOB, Alexander
(51) G01N 33/52	HAAVISTO, Oskar	KLINEC, Darko
G01N 33/543	KVIST, Märten	KOEHLER, Michael
(11) EP3743723	(31) 20205357	DRECHSLER, Andreas
(21) EP19749404.0	(32) 06.04.2020	ZEDER, Michael
(47) 12.07.2023	(33) Finland	
(87) IB2019000557	(51) G01N 33/574	(51) G01N 35/02
19.09.2019	(11) EP3341732	B65G 59/06
(22) 25.03.2019	(21) EP16757251.0	G01N 35/00
(54) MEDICAL TEST CARD	(47) 12.07.2023	G01N 35/04
(73) TESTCARD LTD.	(87) EP2016070158	(11) EP3450985
(72) BOTHAM, Andrew	02.03.2017	(21) EP17188805.0
HERON, Luke	(22) 26.08.2016	(47) 12.07.2023
		(22) 31.08.2017
(51) G01N 33/543	(54) METHODS FOR PREDICTING THE	(54) MICROPLATE PROCESSING DEVICE
G01N 33/02	SURVIVAL TIME OF PATIENTS	(73) TECAN TRADING AG
G01N 33/533	SUFFERING FROM A LUNG CANCER	(72) POSCH, Johannes
G01N 33/52	(73) INSERM - Institut National de la Santé et	BOLLI, Beat
(11) EP3822636	de la Recherche Médicale	GEBETSROITHER, Harald
(21) EP20203530.9	Assistance Publique-Hôpitaux de Paris	ZERZA, Gerald
(47) 12.07.2023	(APHP)	
(22) 23.10.2020	Université Paris Cité	(51) G01N 35/04
(54) FRESHNESS LABEL WITH	Sorbonne Université	G02B 21/34
AGGREGATION-INDUCED PHOSPHOR	(72) DEVI, Priyanka	G01N 1/28
(73) Toshiba Tec Kabushiki Kaisha	SAUTES-FRIDMAN, Catherine	B01L 99/00
(72) TAIRA, Kazuki	FRIDMAN, Wolf Herman	B65H 1/26
AKIYAMA, Ryozo	DIEU-NOSJEAN, Marie-Caroline	H01L 21/677
MIZUNO, Yukitami	(31) 15306318	G01N 35/00
(31) 2019205060	(32) 27.08.2015	B01L 9/00
(32) 12.11.2019	(33) European Patent Office (EPO)	(11) EP3611511
(33) Japan	(51) G01N 33/68	(21) EP18784018.6
(51) G01N 33/543	G01N 27/64	(47) 12.07.2023
G01N 33/50	C07K 14/47	(87) JP2018009449
G01N 33/48	C07K 14/62	18.10.2018
(11) EP3980773	G01N 33/72	(22) 12.03.2018
(21) EP20730073.2	(11) EP3796004	(54) IMAGE ACQUISITION DEVICE AND
(47) 12.07.2023	(21) EP20206370.7	IMAGE ACQUISITION METHOD
(87) EP2020065832	(47) 12.07.2023	(73) Hamamatsu Photonics K.K.
10.12.2020	(22) 03.03.2016	(72) TAKAHASHI Akira
(22) 08.06.2020	(54) METHODS FOR QUANTITATION	SUZUKI Yasumoto
(54) ISOLATION OF FETAL CELLS USING	OF INSULIN LEVELS BY MASS	(31) 2017079672
FACS	SPECTROMETRY	(32) 13.04.2017
(73) Arcedi Biotech ApS	(73) Quest Diagnostics Investments LLC	(33) Japan
(72) RAVN, Katarina	(72) CLARKE, Nigel J.	(51) G01N 35/10
JEPPESEN, Line, Dahl	MCPHUAL, Michael	(11) EP3677916
CHRISTENSEN, Inga, Baasch	CHEN, Zhaohui	(21) EP18902282.5
NICOLAISEN, Bolette, Hestbek	TAYLOR, Steven W.	(47) 12.07.2023
SINGH, Ripudaman	REITZ, Richard E.	(87) JP2018042084
HATT, Lotte	(31) 201562128236 P	01.08.2019
JENSEN, Palle, Schelde	201562127770 P	(22) 14.11.2018
KØLVRAA, David, Mathias, Martin,	(32) 04.03.2015	(54) AUTOMATED ANALYZER
Leiding	03.03.2015	(73) Hitachi High-Tech Corporation
(31) 19179087	(33) United States of America	(72) HASHIMOTO, Ayaka
(32) 07.06.2019	United States of America	YAMAZAWA, Kazunori
(33) European Patent Office (EPO)		OKUSA, Takenori
(51) G01N 33/569	(51) G01N 35/00	(31) 2018012056
G01N 33/543	G01F 23/292	(32) 26.01.2018
(11) EP3911956	G01F 23/284	(33) Japan
(21) EP21704596.2	G01F 23/00	
(47) 12.07.2023	G01F 23/80	(51) G01P 1/02
(87) FI2021050026	(11) EP3848710	G01M 15/14
14.10.2021	(21) EP20151177.1	F01D 25/28
(22) 18.01.2021	(47) 12.07.2023	G01M 9/06
(54) METHOD FOR DETERMINING	(22) 10.01.2020	(11) EP3769067
CORONAVIRUS	(54) METHOD AND LABORATORY SYSTEM	(21) EP19718902.0
(73) Medicortex Finland OY	TO PROCESS A LABORATORY	(47) 12.07.2023
(72) VÄLIMAA, Lasse	CARRIER BASED ON A FEATURE OF	(87) FR2019050641
HAREL, Adrian	A TEST LIQUID IN THE LABORATORY	26.09.2019
NURMI, Venla-Mari	CARRIER	(22) 20.03.2019
	(73) F. Hoffmann-La Roche AG	(54) DEVICE FOR MEASURING THE
		CHARACTERISTICS OF AN AIR FLOW

(73) SAFRAN AIRCRAFT ENGINES	(31) 201614997345	(32) 16.12.2015
(72) VERNIAU, Jean-Luc	(32) 15.01.2016	19.12.2014
SOZUAN, Adnan	(33) United States of America	01.11.2015
PARIS, Simon	(51) G01R 15/26	(33) United States of America
POLO FILISAN, Gilles	G01D 7/12	United States of America
(31) 1852500	G01R 19/165	World Intellectual Property Office (WIPO)
(32) 22.03.2018	G01R 19/25	(51) G01R 27/26
(33) France	G08C 17/02	G06F 3/041
(51) G01P 1/02	G01R 17/02	G06F 3/044
G01P 1/00	G01R 15/12	H03K 17/955
(11) EP3969916	(11) EP3139185	G01V 3/08
(21) EP20722514.5	(21) EP16187050.6	H03F 3/45
(47) 12.07.2023	(47) 12.07.2023	(11) EP4089425
(87) EP2020061288	(22) 02.09.2016	(21) EP22181439.5
19.11.2020	(54) MEASUREMENT DEVICE AND	(47) 12.07.2023
(22) 23.04.2020	METHOD	(22) 15.11.2017
(54) ROTATIONAL SPEED SENSOR,	(73) Fluke Corporation	(54) CAPACITANCE DETECTION DEVICE
FIXING DEVICE FOR A ROTATIONAL	(72) CHEN, Xugang	AND INPUT DEVICE
SPEED SENSOR, RECEIVING	ZHONG, Tao	(73) Alps Alpine Co., Ltd.
DEVICE FOR A ROTATIONAL SPEED	(31) 201510559996	(72) Fujiyoshi, Tatsumi
SENSOR, SENSOR SYSTEM HAVING	(32) 06.09.2015	Sasai, Kiyoshi
A RECEIVING DEVICE AND A	(33) China	Sagawai, Shinichi
ROTATIONAL SPEED SENSOR, AND	(51) G01R 19/00	(31) 2016247475
METHOD FOR THE ROTATIONALLY	H02M 1/00	(32) 21.12.2016
LOCKED POSITIONING OF A	(11) EP3364198	(33) Japan
ROTATIONAL SPEED SENSOR	(21) EP17174200.0	(51) G01R 29/08
(73) KNORR-BREMSE Systeme für	(47) 12.07.2023	G01R 33/10
Nutzfahrzeuge GmbH	(22) 02.06.2017	G01R 31/34
(72) KLUFTINGER, Andre	(54) APPARATUS FOR DETECTING	(11) EP3090269
(31) 102019112664	CURRENT	(21) EP14726115.0
(32) 15.05.2019	(73) LSIS Co., Ltd.	(47) 12.07.2023
(33) Germany	(72) SEON, Jong-Kug	(87) EP2014059994
(51) G01P 5/10	(31) 20170020527	09.07.2015
H01R 4/50	(32) 15.02.2017	(22) 15.05.2014
H02G 1/02	(33) Korea (Republic)	(54) SYSTEM FOR CONDITION
(11) EP2972126	(51) G01R 22/06	MONITORING OF ELECTRIC
(21) EP14776115.9	H02B 1/03	MACHINE, MOBILE PHONE AND
(47) 12.07.2023	H02J 3/12	METHOD THEREOF
(87) US2014023750	G01D 4/00	(73) ABB Schweiz AG
02.10.2014	(11) EP3739346	(72) ORMAN, Maciej
(22) 11.03.2014	(21) EP19174429.1	PINTO, Cajetan
(54) SYSTEMS AND METHODS FOR	(47) 12.07.2023	MULAY, Prasad
DETERMINING WIND SPEEDS	(22) 14.05.2019	(31) 201310750046
(73) Hubbell Incorporated	(54) LOAD CONTROL MODULE FOR	(32) 30.12.2013
(72) MILLER, Gary, Michael	A UTILITY METER AND METER	(33) China
(31) 201314046186	ARRANGEMENT COMPRISING SAME	(51) G01R 31/327
201361781529 P	(73) Landis+Gyr AG	G01R 19/165
(32) 04.10.2013	(72) Cakebread, Andrew	G01R 31/52
14.03.2013	(51) G01R 27/26	G01R 31/50
(33) United States of America	C12Q 1/68	(11) EP3674725
United States of America	G01N 33/487	(21) EP19748014.8
(51) G01R 1/067	G01N 27/04	(47) 12.07.2023
G01R 1/18	C12Q 1/6869	(87) KR2019001312
G01R 31/28	(11) EP3234561	08.08.2019
(11) EP3403104	(21) EP15871130.9	(22) 30.01.2019
(21) EP16885426.3	(47) 12.07.2023	(54) APPARATUS FOR DIAGNOSING
(47) 12.07.2023	(87) US2015066520	RELAY DRIVING CIRCUIT
(87) US2016068121	23.06.2016	(73) LG Energy Solution, Ltd.
20.07.2017	(22) 17.12.2015	(72) LEE, Sun-Jong
(22) 21.12.2016	(54) NANOPORE-BASED SEQUENCING	(31) 20180011459
(54) SHIELDED PROBE SYSTEMS	WITH VARYING VOLTAGE STIMULUS	(32) 30.01.2018
(73) FormFactor, Inc.	(73) F. Hoffmann-La Roche AG	(33) Korea (Republic)
(72) NEGISHI, Kazuki	(72) CHEN, Roger, J.A.	(51) G01R 31/382
FRANKEL, Joseph George	TIAN, Hui	G01R 31/367
SIMMONS, Michael E.	MANEY, Bill	H02J 7/00
STORM, Christopher Anthony	(31) 201514971667	G01R 31/3835
INGRAM-GOBLE, Robbie	201414577511	(11) EP4123783
BOLT, Bryan Conrad	PCT/US2015/058533	(21) EP21908120.5

(47) 12.07.2023	(32) 30.09.2020	(54) A MAGNETOMETER USING
(87) CN2021097255	(33) France	OPTICALLY ACTIVE DEFECTS IN A
08.12.2022	(51) G01R 31/52	SOLID STATE MATERIAL
(22) 31.05.2021	H01M 10/42	(73) Danmarks Tekniske Universitet
(54) METHOD FOR DETERMINING STATE	H01M 50/572	(72) ANDERSEN, Ulrik, Lund
OF CHARGE OF BATTERY, AND	H02J 7/00	HUCK, Alexander
BATTERY MANAGEMENT SYSTEM	H01M 50/574	AHMADI, Sepehr
AND ELECTRIC APPARATUS	(11) EP3751693	EL-ELLA, Haitham A. R.
(73) Contemporary Amperex Technology Co.,	(21) EP18903807.8	(31) 17178726
Limited	(47) 12.07.2023	(32) 29.06.2017
(72) WEI, Honggui	(87) KR2018015057	(33) European Patent Office (EPO)
DU, Mingshu	08.08.2019	(51) G01R 33/3415
XIE, Yanmin	(22) 30.11.2018	G01R 33/36
(51) G01R 31/389	(54) BATTERY PROTECTIVE CIRCUIT AND	(11) EP2850446
G01R 31/36	BATTERY PACK COMPRISING SAME	(21) EP13732243.4
G01R 1/067	(73) Samsung SDI Co., Ltd.	(47) 12.07.2023
A41D 19/015	(72) JIN, Kyongpil	(87) IB2013053511
A41D 31/26	(31) 20180014183	21.11.2013
G01R 19/155	(32) 05.02.2018	(22) 03.05.2013
A41D 13/008	(33) Korea (Republic)	(54) PARALLEL TRANSMITTER
(11) EP3921660	(51) G01R 31/58	SYSTEM FOR SUPPLYING A
(21) EP20707505.2	H01B 7/32	RADIO FREQUENCY SIGNAL TO A
(47) 12.07.2023	(11) EP3914919	PLURALITY OF COIL ELEMENTS OF
(87) FR2020050155	(21) EP20703367.1	A MAGNETIC RESONANCE COIL
13.08.2020	(47) 12.07.2023	SYSTEM
(22) 31.01.2020	(87) AT2020060012	(73) Koninklijke Philips N.V.
(54) DEVICE FOR CHECKING LACK OF	30.07.2020	(72) LIPS, Oliver
VOLTAGE IN AN ELECTRIC CIRCUIT	(22) 20.01.2020	LEUSSLER, Christoph
(73) Neoratech	(54) CABLE ASSEMBLY AND METHOD FOR	(31) 201261646392 P
(72) ARBET-PONT, Mathias	INSPECTING A CABLE ASSEMBLY	(32) 14.05.2012
CAZOR, Thomas	(73) Piezocryst Advanced Sensorics GmbH	(33) United States of America
(31) 1901198	(72) SCHRICKER, Alexander	(51) G01R 33/36
(32) 06.02.2019	MAYER, Andreas	A61B 5/00
(33) France	LADINIG, Lukas	G01T 1/29
(51) G01R 31/40	(31) 500542019	H04W 56/00
G06F 1/26	(32) 24.01.2019	(11) EP3752846
(11) EP3660529	(33) Austria	(21) EP19704231.0
(21) EP19211942.8	(51) G01R 33/09	(47) 12.07.2023
(47) 12.07.2023	G01R 33/00	(87) EP2019052160
(22) 27.11.2019	H01F 10/193	22.08.2019
(54) DEVICE FOR DETECTING THE LOAD	H01F 10/32	(22) 30.01.2019
STATE OF DRIVING POWER SUPPLY	H10N 50/01	(54) IMPROVED CLOCK
(73) Lin, Wanjong	H10N 50/85	SYNCHRONIZATION OF A CLOCKED
Self Electronics Co., Ltd.	(11) EP3772658	ELECTRONIC DEVICE
SELF ELECTRONICS Germany GmbH	(21) EP20189409.4	(73) Koninklijke Philips N.V.
(72) ZHAO, Pengyuan	(47) 12.07.2023	(72) CALDERON RICO, Rodrigo
YOU, Xiaobo	(22) 04.08.2020	REYKOWSKI, Arne
(31) 201811433507	(54) MAGNETORESISTANCE EFFECT	REDDER, Paul, Franz
(32) 28.11.2018	ELEMENT AND HEUSLER ALLOY	(31) 201862631528 P
(33) China	(73) TDK Corporation	(32) 16.02.2018
(51) G01R 31/50	(72) INUBUSHI, Kazuumi	(33) United States of America
G01R 19/00	NAKADA, Katsuyuki	(51) G01R 33/36
G01R 19/165	(31) 2019146332	G01R 33/34
H02H 1/06	(32) 08.08.2019	(11) EP3695239
H02H 3/04	(33) Japan	(21) EP18778471.5
H02H 3/08	(51) G01R 33/32	(47) 12.07.2023
(11) EP3978940	G01R 33/26	(87) EP2018076059
(21) EP21199687.1	G01R 33/032	18.04.2019
(47) 12.07.2023	G01R 33/60	(22) 26.09.2018
(22) 29.09.2021	G01N 24/10	(54) FEEDING A COIL FOR MAGNETIC
(54) METHODS AND SYSTEMS FOR	G01N 21/64	RESONANCE IMAGING
IDENTIFYING A FAULTY CURRENT	G01N 24/00	(73) Koninklijke Philips N.V.
SENSOR	(11) EP3646047	(72) FINDEKLEE, Christian
(73) Schneider Electric Industries SAS	(21) EP18738245.2	SCHMALE, Ingo
(72) SICARD, Stephane	(47) 12.07.2023	LIPS, Oliver
BERNARD, Jean-Baptiste	(87) EP2018067643	LEUSSLER, Christoph
BLANCHARD, Pierre	03.01.2019	VERNICKEL, Peter
(31) 2009985	(22) 29.06.2018	(31) 17196064

(32) 12.10.2017	(51) G01S 5/02	THIELE, Karl Erhard
(33) European Patent Office (EPO)	G01S 5/14	BRADLEY, Kevin
(51) G01R 33/561	G01S 5/18	RUST, David
G01R 33/48	G01S 5/30	(31) 201261650241 P
(11) EP3313281	G01S 11/10	(32) 22.05.2012
(21) EP16876982.6	G01S 11/14	(33) United States of America
(47) 12.07.2023	(11) EP4022337	(51) G01S 7/36
(87) CN2016078666	(21) EP20765330.4	(11) EP3882653
12.10.2017	(47) 12.07.2023	(21) EP18940846.1
(22) 07.04.2016	(87) GB2020052049	(47) 12.07.2023
(54) SYSTEM AND METHOD FOR FAST	04.03.2021	(87) CN2018116601
IMAGING IN MAGNETIC RESONANCE	(22) 27.08.2020	28.05.2020
IMAGING	(54) POSITION DETERMINATION	(22) 21.11.2018
(73) Shanghai United Imaging Healthcare	(73) Sonitor Technologies AS	(54) MICROWAVE RADAR AND UNMANNED
Co., Ltd.	(72) THIO, Vincent Martello Kwie Hoe	AERIAL VEHICLE
(72) LI, Guobin	BOOIJ, Wilfred Edwin	(73) SZ DJI Technology Co., Ltd.
LI, Zhaopeng	(31) 201912412	(72) LI, Xun
WANG, Chaohong	(32) 29.08.2019	WANG, Chunming
(51) G01R 35/00	(33) United Kingdom	(51) G01S 7/4865
G01R 15/18	(51) G01S 5/02	G01S 17/10
(11) EP4102246	H04W 4/02	(11) EP3540468
(21) EP22177316.1	H04W 4/40	(21) EP19154858.5
(47) 12.07.2023	(11) EP3336573	(47) 12.07.2023
(22) 03.06.2022	(21) EP17200600.9	(22) 31.01.2019
(54) CALIBRATION OF A ROGOWSKI	(47) 12.07.2023	(54) OBJECT DETECTOR, MOBILE OBJECT,
SENSOR	(22) 08.11.2017	AND OBJECT DETECTION METHOD
(73) Sagemcom Energy & Telecom SAS	(54) METHODS FOR TESTING A SPATIAL	(73) Ricoh Company, Ltd.
(72) SOTIERE, Julien	PROXIMITY OF A FIRST OBJECT TO A	(72) NAKAMURA, Tadashi
TEBOULLE, Henri	SECOND OBJECT	NISHIO, Takuei
JEANROT, Marc	(73) Deutsche Telekom AG	(31) 2018044851
(31) 2105993	Bayerische Motoren Werke	(32) 13.03.2018
(32) 07.06.2021	Aktiengesellschaft	(33) Japan
(33) France	(72) Zimmermann, Sebastian	(51) G01S 7/52
(51) G01S 5/02	Schnieders, Dominik	G01S 15/89
G01S 5/00	Gehrsitz, Thomas	G16H 30/20
G01S 11/06	(31) 102016124618	(11) EP3073286
(11) EP3203258	(32) 16.12.2016	(21) EP16161580.2
(21) EP15846502.1	(33) Germany	(47) 12.07.2023
(47) 12.07.2023	(51) G01S 5/02	(22) 22.03.2016
(87) JP2015065274	H04W 64/00	(54) ULTRASOUND SIGNAL PROCESSING
07.04.2016	H04W 48/14	DEVICE, ULTRASOUND DIAGNOSTIC
(22) 27.05.2015	(11) EP3514565	DEVICE
(54) POSITIONING SYSTEM	(21) EP19162343.8	(73) Konica Minolta, Inc.
(73) Daikin Industries, Ltd.	(47) 12.07.2023	(72) Tsushima, Mineo
(72) OGURA, Takanori	(22) 12.12.2006	(31) 2015066483
(31) 2014202336	(54) PROVIDING ENHANCED POSITION	(32) 27.03.2015
(32) 30.09.2014	LOCATION IN WIRELESS	(33) Japan
(33) Japan	COMMUNICATIONS	(51) G01S 11/12
(51) G01S 5/02	(73) QUALCOMM INCORPORATED	G06T 7/55
G01S 5/10	(72) Black, Peter J.	G06T 5/50
H04W 64/00	Grob, Matthew S.	G06T 5/00
(11) EP3647806	(31) 31332105	(11) EP3704508
(21) EP18824454.5	(32) 20.12.2005	(21) EP17868491.6
(47) 12.07.2023	(33) United States of America	(47) 12.07.2023
(87) KR2018000894	(51) G01S 7/00	(87) US2017059841
03.01.2019	G01S 7/52	09.05.2019
(22) 19.01.2018	A61B 8/00	(22) 03.11.2017
(54) METHOD AND DEVICE FOR	G16H 30/20	(54) APERTURE SUPERVISION FOR
PERFORMING LOCATION	G16H 40/40	SINGLE-VIEW DEPTH PREDICTION
MEASUREMENT ON BASIS OF PDOA	G16H 40/67	(73) Google LLC
(73) LG Electronics Inc.	(11) EP3730966	(72) BARRON, Jonathan
(72) CHAE, Hyukjin	(21) EP20173371.4	WADHWA, Neal
KIM, Myeongjin	(47) 12.07.2023	SRINIVASAN, Pratul
LEE, Sangrim	(22) 10.05.2013	GARG, Rahul
(31) 201762526992 P	(54) ULTRASOUND IMAGE DISPLAY SET-	(51) G01S 13/44
(32) 29.06.2017	UP FOR REMOTE DISPLAY TERMINAL	G01S 13/87
(33) United States of America	(73) Koninklijke Philips N.V.	G01S 13/931
	(72) CANFIELD, Earl M.	



G01S 7/35	(21) EP21204521.5	(33) United States of America
G01S 13/34	(47) 12.07.2023	(51) G01T 1/29
(11) EP3752858	(22) 25.10.2021	G01T 1/17
(21) EP18826549.0	(54) INTEGRATED PHOTONICS AIR DATA SYSTEM	(11) EP3737973
(47) 12.07.2023	(73) HONEYWELL INTERNATIONAL INC.	(21) EP19700118.3
(87) EP2018084897	(72) TIN, Steven	(47) 12.07.2023
22.08.2019	FERTIG, Chad	(87) EP2019050323
(22) 14.12.2018	PUCKETT, Matthew Wade	18.07.2019
(54) ANGLE-RESOLVING BROADBAND RADAR SENSOR FOR MOTOR VEHICLES	(31) 202017080102	(22) 08.01.2019
(73) Robert Bosch GmbH	(32) 26.10.2020	(54) CHARGE SHARING CALIBRATION METHOD AND SYSTEM
(72) SCHOOR, Michael	(33) United States of America	(73) Koninklijke Philips N.V.
(31) 102018202289	(51) G01S 19/04	(72) STEADMAN BOOKER, Roger
(32) 15.02.2018	H04W 48/14	ROESSL, Ewald
(33) Germany	G01S 5/02	(31) 18150759
(51) G01S 13/524	(11) EP4032343	(32) 09.01.2018
G01S 7/28	(21) EP20771642.4	(33) European Patent Office (EPO)
G01S 7/292	(47) 12.07.2023	(51) G01V 1/02
H04L 25/02	(87) SE2020050840	G01V 1/047
(11) EP3807674	25.03.2021	G01V 1/28
(21) EP19882756.0	(22) 07.09.2020	G01V 1/36
(47) 12.07.2023	(54) ENHANCED ON-DEMAND REQUEST PROCEDURES FOR OBTAINING VARIOUS SYSTEM INFORMATION	G01V 1/46
(87) KR2019015047	(73) TELEFONAKTIEBOLAGET LM	G01V 1/48
14.05.2020	ERICSSON (PUBL)	G01V 1/52
(22) 07.11.2019	(72) BERGQVIST, Jens	G01V 1/00
(54) MOTION ASSISTED LEAKAGE REMOVAL FOR RADAR APPLICATIONS	MODARRES RAZAVI, Sara	(11) EP3256883
(73) Samsung Electronics Co., Ltd.	BERGSTRÖM, Mattias	(21) EP16749707.2
(72) VA, Vutha	ORSINO, Antonino	(47) 12.07.2023
NG, Boon Loong	SHREEVASTAV, Ritesh	(87) US2016017144
KULKARNI, Mandar Narsinh	(31) 201962900902 P	18.08.2016
HUANG, Pengda	(32) 16.09.2019	(22) 09.02.2016
(31) 201916575226	(33) United States of America	(54) OPTIMAL PHASE RELATIONSHIP FOR SEISMIC SURVEY
201962788185 P	(51) G01T 1/20	(73) ConocoPhillips Company
201862756682 P	(11) EP3969941	(72) EICK, Peter M.
(32) 18.09.2019	(21) EP20723914.6	BREWER, Joel D.
04.01.2019	(47) 12.07.2023	CHIU, Stephen K.
07.11.2018	(87) EP2020063244	(31) 201562114289 P
(33) United States of America	19.11.2020	(32) 10.02.2015
United States of America	(22) 12.05.2020	(33) United States of America
United States of America	(54) METHOD FOR PRODUCING A SOLID-STATE DIGITAL DETECTOR OF INCIDENT RADIATION	(51) G01V 1/30
(51) G01S 13/87	(73) Trixell	(11) EP3851881
G01S 13/60	(72) BERANGER, Murielle	(21) EP20216743.3
G01S 13/52	ZEKHNINI, Mohamed	(47) 12.07.2023
G01S 7/41	(31) 1904952	(22) 22.12.2020
H04B 5/00	(32) 13.05.2019	(54) SEISMIC MIGRATION TECHNIQUES FOR IMPROVED IMAGE ACCURACY
(11) EP4134705	(33) France	(73) Emerson Paradigm Holding LLC
(21) EP22177349.2	(51) G01T 1/20	(72) BAI, Jianyong
(47) 12.07.2023	G01T 7/00	YILMAZ, Orhan
(22) 06.06.2022	G01T 1/167	(31) 202017129062
(54) A MOBILE DEVICE, A SYSTEM, AND A METHOD FOR HANDLING OBJECTS PROVIDED WITH RADIO FREQUENCY IDENTIFIERS	G01T 1/202	202062960801 P
(73) Turck Vilant Systems Oy	G01T 1/40	(32) 21.12.2020
(72) NYMAN, Henrik	(11) EP3679405	14.01.2020
(31) 20215845	(21) EP18779123.1	(33) United States of America
(32) 10.08.2021	(47) 12.07.2023	United States of America
(33) Finland	(87) US2018049399	(51) G01V 3/32
(51) G01S 17/58	14.03.2019	G01R 33/561
G01S 7/481	(22) 04.09.2018	G01R 33/44
G01P 5/26	(54) MICRO-DOSE CALIBRATOR	G01N 24/08
G01P 13/02	(73) The U.S.A. as represented by the Secretary, Department of Health and Human Services	(11) EP3423677
G01S 17/88	(72) ADLER, Stephen, S	(21) EP17760826.2
G01S 17/95	(31) 201762554980 P	(47) 12.07.2023
(11) EP3988962	(32) 06.09.2017	(87) US2017020458
		08.09.2017
		(22) 02.03.2017
		(54) CHEMICALLY-SELECTIVE IMAGER FOR IMAGING FLUID OF A

SUBSURFACE FORMATION AND METHOD OF USING SAME	(21) EP20731976.5 (47) 12.07.2023	G02B 3/00 G02B 5/08
(73) Shell Internationale Research Maatschappij B.V.	(87) IB2020055282 30.12.2020	G02B 5/28 (11) EP3550338
(72) DE JONG, Hilko	(22) 04.06.2020	(21) EP17886466.6
RAMSKILL, Nicholas Philip	(54) SILICONE HYDROGEL CONTACT LENSES HAVING NON-UNIFORM MORPHOLOGY	(47) 12.07.2023
GLADDEN, Lynn Faith	(87) Johnson and Johnson Vision Care, Inc.	(87) JP2017043624 05.07.2018
SEDERMAN, Andrew John	(73) Johnson and Johnson Vision Care, Inc.	(22) 05.12.2017
MANTLE, Michael David	(72) SANTA MARIA, Bernardo	(54) REFLECTIVE DIFFUSER PLATE, DISPLAY DEVICE, PROJECTION DEVICE, AND LIGHTING DEVICE
APPEL, Matthias	ALLI, Azaam	(73) Dexerials Corporation
ANGER, Benjamin Charles	GUZMAN, Alexander	(72) ARIMA, Mitsuo
(31) 201662303238 P	RIEDERER, Donald E.	NAGAHAMA, Tsutomu
(32) 03.03.2016	(31) 202016875164	(31) 2016256464
(33) United States of America	201962865586 P	(32) 28.12.2016
(51) G01V 5/00	(32) 15.05.2020	(33) Japan
G07C 9/37	(33) United States of America	
G01S 13/88	United States of America	(51) G02B 5/09
G07C 11/00		G02B 30/60
(11) EP3230961	(51) G02B 1/04	G03B 35/24
(21) EP15816407.9	G02B 5/02	(11) EP3633436
(47) 12.07.2023	C08L 33/12	(21) EP17911574.6
(87) EP2015079421	(11) EP3491429	(47) 12.07.2023
16.06.2016	(21) EP17742773.9	(87) JP2017033531
(22) 11.12.2015	(47) 12.07.2023	06.12.2018
(54) PERSONAL IDENTIFICATION FOR MULTI-STAGE INSPECTIONS OF PERSONS	(87) EP2017069086 01.02.2018	(22) 15.09.2017
(73) Smiths Detection Germany GmbH	(22) 27.07.2017	(54) METHOD FOR MANUFACTURING STEREOSCOPIC IMAGE FORMING DEVICE, AND STEREOSCOPIC IMAGE FORMING DEVICE
(72) SCHUCKMANN, Arthur Christian Meinhard	(54) A (METH)ACRYLIC COMPOSITION COMPRISING PARTICLES, ITS METHOD OF PREPARATION, ITS USE AND OBJECT COMPRISING IT	(73) Asukanet Company, Ltd.
NURBEGOVIC, Emir	(73) Trinseo Europe GmbH	(72) OTSUBO Makoto
(31) 102014225592	(72) ROY, Cedric	(31) 2017109195
(32) 11.12.2014	QUERUEL, Sylvain	(32) 01.06.2017
(33) Germany	(31) 1657403	(33) Japan
(51) G01V 5/12	(32) 29.07.2016	
(11) EP3586173	(33) France	(51) G02B 5/30
(21) EP18710605.9		(11) EP3126883
(47) 12.07.2023	(51) G02B 3/00	(21) EP15712909.9
(87) US2018019359	G02B 27/09	(47) 12.07.2023
30.08.2018	G02B 3/06	(87) EP2015056826
(22) 23.02.2018	G02B 27/30	08.10.2015
(54) DETECTING ANOMALIES IN ANNULAR MATERIALS OF SINGLE AND DUAL CASING STRING ENVIRONMENTS	(11) EP3690493	(22) 30.03.2015
(73) Teague, Philip	(21) EP20150730.8	(54) OPTICAL DEVICES WITH PATTERNED ANISOTROPY INCORPORATING PARALLAX OPTIC
Stewart, Alex	(47) 12.07.2023	(73) ROLIC Technologies AG
(72) Stewart, Alex	(22) 08.01.2020	(72) PIRES, David
Teague, Philip	(54) DIVERGENCE-RESHAPING ARRAY	SEIBERLE, Hubert
(31) 201762464174 P	(73) Leonardo Electronics US Inc.	SCHMITT, Klaus
(32) 27.02.2017	(72) MAGNESS, Connor L.	(31) 14163316
(33) United States of America	(31) 201962790193 P	(32) 03.04.2014
(51) G02B 1/04	(32) 09.01.2019	(33) European Patent Office (EPO)
(11) EP3602148	(33) United States of America	
(21) EP18712259.3	(51) G02B 5/02	(51) G02B 6/122
(47) 12.07.2023	(11) EP3332276	G02B 6/136
(87) EP2018057833	(21) EP16753835.4	H01S 5/02
04.10.2018	(47) 12.07.2023	G02B 6/12
(22) 27.03.2018	(87) EP2016067980 16.02.2017	G02B 6/132
(54) OPTICAL MATERIAL WITH IMPROVED COLOUR	(22) 28.07.2016	G02B 6/42
(73) Essilor International	(54) AZIMUTHALLY MODULATED SCATTERING DEVICE	H01S 5/10
(72) LERTWATTANASERI, Tipparat	(73) Rolic Technologies AG	H01S 5/20
FROMENTIN, Pierre	(72) PIRES, David	H01S 5/22
(31) 17305346	IBN-ELHAJ, Mohammed	(11) EP3812811
(32) 27.03.2017	(31) 15180316	(21) EP20202961.7
(33) European Patent Office (EPO)	(32) 07.08.2015	(47) 12.07.2023
(51) G02B 1/04	(33) European Patent Office (EPO)	(22) 21.10.2020
(11) EP3987323	(51) G02B 5/02	

(54) METHOD FOR FABRICATING A PHOTONIC CHIP VIA TRANSFER OF A DIE TO A RECEIVING SUBSTRATE	(11) EP3241047 (21) EP15823605.9 (47) 12.07.2023	(21) EP13847218.8 (47) 12.07.2023 (87) US2013065422 24.04.2014
(73) Commissariat à l'Energie Atomique et aux Energies Alternatives	(87) EP2015081302 07.07.2016	(22) 17.10.2013
(72) SZELAG, Bertrand MENEZO, Sylvie	(22) 28.12.2015	(54) STEREOSCOPIIC DISPLAYS WITH ADDRESSABLE FOCUS CUES
(31) 1911989	(54) DEVICE AND METHOD FOR PERFORMING LENS-FREE IMAGING	(73) The Arizona Board Of Regents On Behalf Of The University Of Arizona
(32) 25.10.2019	(73) IMEC vzw	(72) HUA, Hong HU, Xinda
(33) France	(72) CLAES, Tom VERCRUYSSSE, Dries ROTTENBERG, Xavier VAN DORPE, Pol STAHL, Richard	(31) 201261795500 P (32) 18.10.2012 (33) United States of America
(51) G02B 6/125 G02B 6/12 G02B 6/126	(31) 14200424 (32) 29.12.2014 (33) European Patent Office (EPO)	(51) G02B 21/00 G01B 9/04 G02B 21/36 G02B 21/24
(11) EP3612877	(51) G02B 6/38	(11) EP2845045
(21) EP18787064.7	(11) EP3879320	(21) EP13784683.8
(47) 12.07.2023	(21) EP21154576.9	(47) 12.07.2023
(87) US2018027754	(47) 12.07.2023	(87) US2013031045
25.10.2018	(22) 01.02.2021	07.11.2013
(22) 16.04.2018	(54) DUPLEX OPTICAL CONNECTOR PLUG	(22) 13.03.2013
(54) PLANAR WAVEGUIDE JUNCTION	(73) Seikoh Giken CO., LTD.	(54) REAL-TIME FOCUSING IN LINE SCAN IMAGING
(73) NeoPhotonics Corporation	(72) TAKAISHI, Yohei TAIRA, Junji SHIOKAWA, Naotoshi JIBIKI, Masayuki	(73) Leica Biosystems Imaging, Inc. (72) CRANDALL, Greg J. ZOU, Yunlu OLSON, Allen
(72) WEST, Brian R. TICKNOR, Anthony J.	(31) 2020042451 (32) 11.03.2020 (33) Japan	(31) 201261641788 P (32) 02.05.2012 (33) United States of America
(31) 201715490420	(51) G02B 6/40 G02B 6/38	(51) G02B 21/00 G02B 21/10 G02B 21/16 G02B 21/24
(32) 18.04.2017	(11) EP3677938	(11) EP3084501
(33) United States of America	(21) EP17936391.6	(21) EP14825442.8
(51) G02B 6/255	(47) 12.07.2023	(47) 12.07.2023
(11) EP3359992	(87) JP2017047361	(87) IB2014067229
(21) EP15823778.4	04.07.2019	25.06.2015
(47) 12.07.2023	(22) 28.12.2017	(22) 22.12.2014
(87) IB2015059519	(54) OPTICAL CONNECTOR AND METHOD FOR CONNECTING OPTICAL CONNECTOR	(54) LIGHT SOURCE ADAPTOR FOR A MICROSCOPE
13.04.2017	(73) Nippon Telegraph and Telephone Corporation FUJIKURA LTD.	(73) Oxford University Innovation Limited (72) RUSSELL, Aidan ISHMUKHAMETOV, Robert BERRY, Richard
(22) 10.12.2015	(72) KOYAMA, Ryo OTOMITSU, Takahito KIHARA, Mitsuru	(31) 201322822 (32) 21.12.2013 (33) United Kingdom
(54) METHOD TO PRODUCE POLYMER CONVERTER FOR CONNECTING OPTICAL FIBRES	(51) G02B 13/04 (11) EP3121633 (21) EP16176436.0 (47) 12.07.2023	(51) G02B 21/00 G02B 21/36
(73) Wojskowa Akademia Techniczna im. Jaroslawa Dabrowskiego	(22) 27.06.2016	(11) EP3237948
(72) MARC, Pawel PURA-PAWLIKOWSKA, Paulina JAROSZEWICZ, Leszek R.	(54) IMAGING OPTICAL SYSTEM, CAMERA DEVICE, AND PORTABLE INFORMATION TERMINAL APPARATUS	(21) EP15820861.1 (47) 12.07.2023
(31) 41432815	(73) Ricoh Company, Ltd. (72) NAKAYAMA, Takahiro	(87) EP2015081220 30.06.2016
(32) 09.10.2015	(31) 2015146757 (32) 24.07.2015 (33) Japan	(22) 23.12.2015
(33) Poland	(51) G02B 17/08 G02B 27/01 H04N 13/339 H04N 13/344 G02B 30/22	(54) IMAGING METHOD, AND SYSTEM, FOR OBTAINING A SUPER-RESOLUTION IMAGE OF AN OBJECT
(51) G02B 6/293 G02B 19/00 G02B 27/10	(11) EP2910022	(73) Commissariat à l'Énergie Atomique et aux Énergies Alternatives Centre National de la Recherche Scientifique (CNRS)
(11) EP3423878		(72) GALL, Andrew
(21) EP17707397.0		
(47) 12.07.2023		
(87) GB2017050462		
08.09.2017		
(22) 23.02.2017		
(54) CO-ALIGNING LATERALLY DISPLACED RADIATION BEAMS		
(73) BAE Systems PLC		
(72) BLANCHARD, Paul, Michael STACEY, Craig Daniel		
(31) 201603681 16250003		
(32) 02.03.2016 02.03.2016		
(33) United Kingdom European Patent Office (EPO)		
(51) G02B 6/34 G01N 15/14 G02B 6/12 G03H 1/04		

ROBERT, Bruno	(72) FU, Yijing	(51) G02B 27/01
FROLOV, Dmitrij	HUGHES, Patrick Joseph	G06F 3/01
VAN GRONDELLE, Rienk	CHI, Wanli	G02B 27/00
(31) 14307179	(31) 201715683183	(11) EP3935438
(32) 23.12.2014	PCT/US2018/046084	(21) EP20717000.2
(33) European Patent Office (EPO)	(32) 22.08.2017	(47) 12.07.2023
(51) G02B 26/08	09.08.2018	(87) US2020021118
(11) EP3977193	(33) United States of America	17.09.2020
(21) EP20731242.2	World Intellectual Property Office (WIPO)	(22) 05.03.2020
(47) 12.07.2023	(51) G02B 27/01	(54) LATENCY REDUCTION FOR
(87) NL2020050344	(11) EP3198329	ARTIFICIAL REALITY
03.12.2020	(21) EP15791789.9	(73) Facebook Technologies, LLC.
(22) 28.05.2020	(47) 12.07.2023	(72) LU, Gang
(54) CONTROLLABLY DEFORMABLE	(87) NL2015050659	QU, Qi
MIRROR DEVICE	31.03.2016	TRAIL, Nicholas Daniel
(73) Nederlandse Organisatie voor toegepast-	(22) 22.09.2015	ABBOTT, William
natuurwetenschappelijk onderzoek TNO	(54) HEAD MOUNTED DISPLAY	ZHENG, Dong
(72) KUIJPER, Stefan	(73) K. Mizra LLC	(31) 202016774863
NIJENHUIS, Jan Roelof	(72) HAVEKES, Anton	201962815811 P
(31) 19177051	KOOI, Frank Leonard	(32) 28.01.2020
(32) 28.05.2019	(31) 14185727	08.03.2019
(33) European Patent Office (EPO)	(32) 22.09.2014	(33) United States of America
(51) G02B 26/08	(33) European Patent Office (EPO)	United States of America
(11) EP2277076	(51) G02B 27/01	(51) G02B 27/09
(21) EP09747103.1	G02B 27/00	G02B 3/00
(47) 12.07.2023	H04N 13/344	G02B 27/00
(87) US2009040702	H04N 13/383	(11) EP3529654
19.11.2009	H04N 13/398	(21) EP17781202.1
(22) 15.04.2009	(11) EP3108292	(47) 12.07.2023
(54) INDUCED RESONANCE COMB DRIVE	(21) EP15710310.2	(87) JP2017032387
SCANNER	(47) 12.07.2023	26.04.2018
(73) Microvision, Inc.	(87) US2015015726	(22) 31.08.2017
(72) DAVIS, Wyatt, O.	27.08.2015	(54) OPTIC, LUMINAIRE AND METHOD
UREY, Hakan	(22) 13.02.2015	FOR FABRICATING OPTIC
(31) 122223	(54) STEREOSCOPIC DISPLAY	(73) Mitsubishi Electric Corporation
(32) 16.05.2008	RESPONSIVE TO FOCAL-POINT SHIFT	(72) BRAND, Matthew
(33) United States of America	(73) Microsoft Technology Licensing, LLC	(31) 201615296162
(51) G02B 26/08	(72) MOUNT, Brian	(32) 18.10.2016
G02B 26/10	TOMLIN, Arthur	(33) United States of America
H01L 23/535	MCCULLOCH, Daniel Joseph	(51) G02B 30/10
H01L 21/768	AMBRUS, Tony	G02B 30/56
H01L 23/522	SYLVAN, Roger Sebastian	H04N 13/388
(11) EP3876265	(31) 201414184482	G03B 21/606
(21) EP19878248.4	(32) 19.02.2014	G03B 21/608
(47) 12.07.2023	(33) United States of America	(11) EP3762771
(87) JP2019042669	(51) G02B 27/01	(21) EP19707814.0
07.05.2020	G02B 27/18	(47) 12.07.2023
(22) 30.10.2019	G02B 6/10	(87) EP2019055305
(54) DAMASCENE INTERCONNECT	G02B 6/24	12.09.2019
STRUCTURE, ACTUATOR DEVICE,	G02B 6/293	(22) 04.03.2019
AND METHOD OF MANUFACTURING	G02B 27/14	(54) AN APPARATUS FOR DISPLAYING A
DAMASCENE INTERCONNECT	F21V 8/00	THREE-DIMENSIONAL IMAGE
STRUCTURE	(11) EP3423887	(73) Imec VZW
(73) Hamamatsu Photonics K.K.	(21) EP17760652.2	(72) LODEWIJKS, Kristof
(72) INOUE, Nao	(47) 12.07.2023	ROTTENBERG, Xavier
SHIBAYAMA, Katsumi	(87) US2017020029	(31) 18161059
SUZUKI, Daiki	08.09.2017	(32) 09.03.2018
(31) 2018205351	(22) 28.02.2017	(33) European Patent Office (EPO)
(32) 31.10.2018	(54) REFLECTIVE SWITCHING DEVICE	(51) G02B 30/60
(33) Japan	FOR INPUTTING DIFFERENT	G02B 5/09
(51) G02B 27/01	WAVELENGTHS OF LIGHT INTO	(11) EP3647858
(11) EP3447562	WAVEGUIDES	(21) EP18823284.7
(21) EP18189101.1	(73) Magic Leap, Inc.	(47) 12.07.2023
(47) 12.07.2023	(72) JONES, William, K.	(87) JP2018019859
(22) 15.08.2018	TINCH, David	03.01.2019
(54) PIXEL ELEMENTS INCLUDING LIGHT	(31) 201662302090 P	(22) 23.05.2018
EMITTERS OF VARIABLE HEIGHTS	(32) 01.03.2016	(54) STEREOSCOPIC IMAGE FORMING
(73) Facebook Technologies, LLC	(33) United States of America	DEVICE AND METHOD FOR

MANUFACTURING STEREOSCOPIC IMAGE FORMING DEVICE	(72) LEUTHOLD, Jürg SALAMIN, Yannick KOCH, Ueli MA, Ping	(11) EP3215893 (21) EP15856860.0 (47) 12.07.2023 (87) US2015059569 12.05.2016 (22) 06.11.2015 (54) ELECTRO-OPTIC TILE
(73) Asukanet Company, Ltd. (72) OTSUBO Makoto (31) 2017127325 (32) 29.06.2017 (33) Japan	(31) 3742017 (32) 21.03.2017 (33) Switzerland	(73) E Ink Corporation (72) TAUSSIG, Carl FILLION, Joseph APEN, Paul HARRIS, George G. SAINIS, Sunil Krishna PAOLINI, Richard J., Jr. MCCREARY, Michael D. (31) 201562099732 P 201462077154 P (32) 05.01.2015 07.11.2014
(51) G02C 7/02 G02B 5/18 G02C 7/04	(51) G02F 1/1333 G02F 1/1337 G02F 1/29 G02C 7/08 G02B 3/08	(72) United States of America United States of America
(11) EP3415980 (21) EP16889801.3 (47) 12.07.2023 (87) JP2016053874 17.08.2017 (22) 09.02.2016 (54) DIFFRACTIVE MULTIFOCAL LENS FOR EYE AND METHOD FOR MANUFACTURING DIFFRACTIVE MULTIFOCAL LENS FOR EYE	(11) EP3447567 (21) EP17187777.2 (47) 12.07.2023 (22) 24.08.2017 (54) OPTICAL DEVICE WITH LIQUID CRYSTAL ALIGNMENT	(31) 201562099732 P 201462077154 P (32) 05.01.2015 07.11.2014
(73) Menicon Co., Ltd. (72) ANDO, Ichiro	(73) Morrow N.V. (72) MARCHAL, Paul Wilfried Cecile DE SMET, Jelle CIRKEL, Peter	(33) United States of America United States of America
(51) G02C 7/06 G02C 7/02 G02C 7/16	(51) G02F 1/1335 G02F 1/13 G02B 5/26 A47G 1/00 G02B 5/30 G09F 9/00 G09F 19/16	(51) G02F 1/295 G02B 6/10 G02B 17/00 G02B 27/00 G02B 27/01 (11) EP3688526 (21) EP18860793.1 (47) 12.07.2023 (87) IL2018051068 04.04.2019 (22) 23.09.2018 (54) AUGMENTED REALITY DISPLAY
(11) EP4006627 (21) EP20211634.9 (47) 12.07.2023 (22) 26.11.2020 (54) SPECTACLE LENS DESIGN, SPECTACLE LENS KIT AND METHOD OF MANUFACTURING A SPECTACLE LENS	(11) EP3229049 (21) EP15866151.2 (47) 12.07.2023 (87) JP2015083565 09.06.2016 (22) 30.11.2015 (54) MIRROR HAVING IMAGE DISPLAY FUNCTION	(73) Lumus Ltd. (72) CHAYET, Alexander DANZIGER, Yochay SHARLIN, Elad Axel LEVIN, Naamah (31) 201762565135 P (32) 29.09.2017 (33) United States of America
(73) Carl Zeiss Vision International GmbH (72) BRAUNGER, Dieter	(73) FUJIFILM Corporation (72) OKI Kazuhiro TAGUCHI Takao ANZAI Akihiro ICHIHASHI Mitsuyoshi	(73) United States of America United States of America
(51) G02C 7/12 G02B 27/28 G02B 5/30 B29C 43/20 B29C 43/02 B29D 11/00	(31) 2014243444 (32) 01.12.2014 (33) Japan	(51) G03F 7/20 (11) EP3105636 (21) EP15700059.7 (47) 12.07.2023 (87) EP2015050168 20.08.2015 (22) 07.01.2015 (54) METHOD OF OPTIMIZING A PROCESS WINDOW
(11) EP2697049 (21) EP12721340.3 (47) 12.07.2023 (87) IB2012000752 18.10.2012 (22) 16.04.2012 (54) METHOD OF FORMING CURVED LENSES	(51) G02F 1/1335 G02F 1/13357 F21V 8/00 G02B 3/00 G02B 5/02	(73) ASML Netherlands B.V. (72) HUNSCHE, Stefan VELLANKI, Venugopal (31) 201461943834 P 201461939071 P (32) 24.02.2014 12.02.2014 (33) United States of America United States of America
(73) SAFILO S.P.A. (72) BOINARD, Pascal BOINARD, Eric (31) 201161475885 P (32) 15.04.2011 (33) United States of America	(11) EP3525036 (21) EP19166702.1 (47) 12.07.2023 (22) 10.12.2013 (54) DISPLAY DEVICE	(31) 201461943834 P 201461939071 P (32) 24.02.2014 12.02.2014 (33) United States of America United States of America
(51) G02F 1/035 G02F 1/05 G02F 1/225	(73) LG Display Co., Ltd. (72) CHANG, Su-Jin KIM, Bo-Ra LEE, Sang-Hyun KIM, Sun-Woong HAN, Sang-Dae MOON, Won-Taek	(32) 24.02.2014 12.02.2014 (33) United States of America United States of America
(11) EP3602188 (21) EP18712572.9 (47) 12.07.2023 (87) EP2018056925 27.09.2018 (22) 20.03.2018 (54) DEVICE FOR THZ GENERATION AND/ OR DETECTION AND METHODS FOR MANUFACTURING THE SAME	(31) 20120157005 (32) 28.12.2012 (33) Korea (Republic)	(51) G03F 9/00 (11) EP3751347 (21) EP20174649.2 (47) 12.07.2023 (22) 14.05.2020 (54) ALIGNMENT APPARATUS, ALIGNMENT METHOD, LITHOGRAPHY APPARATUS, AND METHOD OF MANUFACTURING ARTICLE
(73) ETH Zürich	(51) G02F 1/167 E04F 13/08 B43L 1/12	

(73) Canon Kabushiki Kaisha	(32) 13.01.2004	G05B 23/02
(72) MURAYAMA, Genki	(33) United Kingdom	(11) EP3770715
EGASHIRA, Shinichi	(51) G04F 7/08	(21) EP20187176.1
(31) 2019106854	G04B 3/04	(47) 12.07.2023
(32) 07.06.2019	G04B 37/10	(22) 22.07.2020
(33) Japan	(11) EP3825778	(54) DETECTING DIAGNOSTIC EVENTS IN
(51) G03G 15/00	(21) EP19210665.6	A THERMAL SYSTEM
B41J 13/10	(47) 12.07.2023	(73) Schneider Electric USA, Inc.
B65H 1/00	(22) 21.11.2019	(72) POLLARD, Gary B.
G03G 21/16	(54) CONTROL CROWN FOR A TIMEPIECE	TURNER, Larry A.
(11) EP4068002	(73) The Swatch Group Research and	BROWN, Scott Robert
(21) EP21191062.5	Development Ltd	BUDA, Paul Robert
(47) 12.07.2023	(72) KWIECINSKI, Karol	GLASGOW, David R.
(22) 12.08.2021	VUILLEUMIER, Gilles	(31) 201916519751
(54) MANUAL SHEET FEEDING DEVICE	(51) G04F 10/00	201916519916
AND IMAGE FORMING APPARATUS	(11) EP3983852	(32) 23.07.2019
(73) Fujifilm Business Innovation Corp.	(21) EP20729824.1	23.07.2019
(72) CHONABAYASHI, Yuya	(47) 12.07.2023	(33) United States of America
MORI, Takuya	(87) IB2020053977	United States of America
KOSUGE, Tomoya	17.12.2020	(51) G05B 17/02
(31) 2021055140	(22) 28.04.2020	(11) EP3289416
(32) 29.03.2021	(54) POWER SUPPLY CIRCUIT MODULE	(21) EP16723028.3
(33) Japan	FOR A TDC AND METHOD OF	(47) 12.07.2023
(51) G03G 15/20	CALIBRATING SUCH A MODULE	(87) EP2016058943
G03G 15/00	(73) Fondazione Bruno Kessler	03.11.2016
(11) EP2703905	(72) PERENZONI, Matteo	(22) 21.04.2016
(21) EP13182075.5	(31) 201900008793	(54) SYSTEM AND METHOD FOR USER
(47) 12.07.2023	(32) 13.06.2019	INTUITIVE VISUAL MANAGEMENT OF
(22) 28.08.2013	(33) Italy	AUTOMATION OF BIOPROCESS
(54) Printing apparatus	(51) G04G 17/08	(73) Cytiva Sweden AB
(73) Brother Kogyo Kabushiki Kaisha	A44C 5/14	(72) MYGAPULA, Sudheer
(72) SAEKI, Masahito	(11) EP2937744	DHARAMSHI, Dalesh
(31) 2012190086	(21) EP15164669.2	(31) 2185CH2015
(32) 30.08.2012	(47) 12.07.2023	(32) 29.04.2015
(33) Japan	(22) 22.04.2015	(33) India
(51) G03G 21/20	(54) WEARABLE DEVICE	(51) G05B 19/042
B41J 2/175	(73) Samsung Electronics Co., Ltd	(11) EP3816742
(11) EP4012504	(72) Kim, Dong-Hyeon	(21) EP19206750.2
(21) EP21212412.7	Byun, Dong-Hyun	(47) 12.07.2023
(47) 12.07.2023	Yoon, Byoung-Uk	(22) 01.11.2019
(22) 06.12.2021	Yi, Young-Jin	(54) ELECTRICAL INSTALLATION WITH
(54) IMAGE FORMING CONTROL METHOD,	(31) 20140047878	ACOUSTIC MONITORING DEVICE AND
CONSUMABLE CHIP, IMAGE FORMING	(32) 22.04.2014	CORRESPONDING METHOD
APPARATUS, AND CONSUMABLE	(33) Korea (Republic)	(73) Siemens Energy Global GmbH & Co. KG
(73) Zhuhai Pantum Electronics Co., Ltd.	(51) G05B 11/01	(72) Alt, Bastian
(72) LI, Haixiong	G05B 19/418	Armschat, Christoph
XIONG, Dan	G05B 15/02	Schettler, Frank
(31) 202111325506	G05B 23/02	Gambach, Herbert
202011425780	G05B 19/042	(51) G05B 19/042
(32) 10.11.2021	G06F 16/21	(11) EP3457234
08.12.2020	(11) EP3835893	(21) EP17191780.0
(33) China	(21) EP20207600.6	(47) 12.07.2023
China	(47) 12.07.2023	(22) 19.09.2017
(51) G03H 1/00	(22) 04.05.2009	(54) METHOD FOR PROVIDING
G03H 1/02	(54) SYSTEM FOR MAINTAINING	INFORMATION IN THE FORM OF
G03H 1/22	UNIFIED ACCESS TO SCADA AND	COMPUTER CODE TO A PROCESS
G03H 1/04	MANUFACTURING EXECUTION	MODULE WITH THE ASSISTANCE OF
B42D 25/328	SYSTEM (MES) INFORMATION	A COMPUTER
(11) EP1704447	(73) AVEVA Software, LLC	(73) ABB Schweiz AG
(21) EP05701869.9	(72) Grove, Eric P.	(72) Hoernicke, Mario
(47) 12.07.2023	Miller, Christopher Justin	Stark, Katharina
(87) GB2005000101	Weinrich, Steven M.	(51) G05B 19/042
28.07.2005	(31) 50175 P	G05B 19/05
(22) 13.01.2005	(32) 02.05.2008	(11) EP4022403
(54) SECURITY DEVICE	(33) United States of America	(21) EP20764365.1
(73) De La Rue International Limited	(51) G05B 13/02	(47) 12.07.2023
(72) HOLMES, Brian, William	G05D 23/19	(87) EP2020074059
(31) 0400681		04.03.2021

(22) 28.08.2020	(11) EP3582036	23.12.2021
(54) METHOD AND INDUSTRIAL CONTROLLER FOR THE SYNCHRONIZED CALLING OF A FUNCTION BLOCK IN A CONTROL PROGRAM HAVING OPC UA	(21) EP18751685.1	(22) 15.06.2021
(73) PHOENIX CONTACT GMBH & CO. KG	(47) 12.07.2023	(54) PLANAR DRIVE SYSTEM AND METHOD FOR OPERATING A PLANAR DRIVE SYSTEM
(72) WEICHELDT, Andreas THOMAS, Uwe	(87) JP2018001780	(73) Beckhoff Automation GmbH
(31) 102019123271	16.08.2018	(72) BENTFELD, Lukas
(32) 30.08.2019	(22) 22.01.2018	(31) 20180860
(33) Germany	(54) CONTROL DEVICE	(32) 18.06.2020
(51) G05B 19/042	(73) Omron Corporation	(33) European Patent Office (EPO)
G05B 19/12	(72) YAOITA, Koji	(51) G05B 19/4061
(11) EP4160325	MUNETTA, Yasuo	G05B 19/4065
(21) EP21199937.0	(31) 2017024282	(11) EP3977217
(47) 12.07.2023	(32) 13.02.2017	(21) EP20731798.3
(22) 29.09.2021	(33) Japan	(47) 12.07.2023
(54) SENSOR ASSEMBLY AND METHOD FOR OPERATING A SENSOR ASSEMBLY	(51) G05B 19/05	(87) EP2020063417
(73) Leuze electronic GmbH + Co. KG	(11) EP3696627	17.12.2020
(72) Köbel, Herbert	(21) EP17928636.4	(22) 14.05.2020
Feinauer, Dr. Julian	(87) JP2017036946	(54) CONTROL DEVICE FOR USE ON A NUMERICALLY CONTROLLED MACHINE TOOL, AND MACHINE TOOL COMPRISING A CONTROL DEVICE
Eckhardt, Hasko	18.04.2019	(73) Deckel Maho Seebach GmbH
(51) G05B 19/042	(22) 12.10.2017	(72) BRAND, Matthias
G05B 19/418	(54) DISTRIBUTED CONTROL SYSTEM	GLÖDE, Isabella
H04L 9/32	(73) Mitsubishi Electric Corporation	SCHMIDT, Ines
(11) EP3851923	(72) KAJITA, Tomoyuki	(31) 102019208624
(21) EP20151787.7	(51) G05B 19/05	(32) 13.06.2019
(47) 12.07.2023	G05B 23/02	(33) Germany
(22) 14.01.2020	G06F 3/14	(51) G05B 19/418
(54) CONTROL SYSTEM FOR TECHNICAL INSTALLATIONS WITH CERTIFICATE MANAGEMENT	G06F 3/0482	B23K 37/02
(73) Siemens Aktiengesellschaft	G06F 3/04847	B26D 5/00
(72) Lutz, Benjamin	G06F 3/0488	B26F 1/38
Palmin, Anna	G06F 11/30	(11) EP3867717
(51) G05B 19/042	G06F 11/32	(21) EP19794441.6
G05B 19/418	(11) EP3761127	(47) 12.07.2023
H04L 12/18	(21) EP19761237.7	(87) EP2019078024
(11) EP3633469	(47) 12.07.2023	23.04.2020
(21) EP19205844.4	(87) JP2019002730	(22) 16.10.2019
(47) 12.07.2023	06.09.2019	(54) METHOD FOR DISPLAYING WORKPIECE REPRESENTATIONS TO SUPPORT A SORTING PROCESS
(22) 29.04.2015	(22) 28.01.2019	(73) TRUMPF Werkzeugmaschinen SE + Co. KG
(54) SYSTEMS AND METHODS FOR BROADCASTING DATA AND DATA TAGS ASSOCIATED WITH AN INDUSTRIAL AUTOMATION SYSTEM	(54) DISPLAY DEVICE, SCREEN GENERATION METHOD, AND SCREEN GENERATION PROGRAM	Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(73) Rockwell Automation Technologies, Inc.	(73) Omron Corporation	(72) BITTO, Dominik
(72) Sinner, William	(72) NAGATA, Yuta	PÖNITZ, Willi
Bulho, Matheus	(31) 2018036274	TESCHNER, Marc
Kalan, Michael	(32) 01.03.2018	KIEFER, Manuel
DeYoung, Daniel S.	(33) Japan	(31) 102018126050
Weinhofer, Juergen	(51) G05B 19/05	(32) 19.10.2018
Kulaszewicz, Frank	G06F 21/56	(33) Germany
Staninger, Keith	G06F 21/57	(51) G05B 19/418
Stump, Andrew R.	(11) EP3475774	G06Q 50/04
Hill, Edward A.	(21) EP16766116.4	B25H 3/06
Mansouri, Haithem	(47) 12.07.2023	(11) EP3425463
Govindaraj, Subbian	(87) US2016048374	(21) EP16892466.0
Rischar, Charles M.	01.03.2018	(47) 12.07.2023
(31) 201414267617	(22) 24.08.2016	(87) JP2016056128
(32) 01.05.2014	(54) SYSTEM AND METHOD FOR THREAT IMPACT DETERMINATION	08.09.2017
(33) United States of America	(73) Siemens Aktiengesellschaft	(22) 29.02.2016
(51) G05B 19/042	(72) SRIVASTAVA, Sanjeev	(54) COMPONENT MANAGEMENT SYSTEM, COMPONENT MANAGEMENT SERVER, COMPONENT MANAGEMENT METHOD, AND SERVING TRAY
G06F 9/50	MARTINEZ CANEDO, Arquimedes	(73) Kyoto Tool Co., Ltd.
G05B 19/05	PFLEGER DE AGUIAR, Leandro	
	(51) G05B 19/19	
	H02K 11/215	
	H02K 41/03	
	H02P 25/064	
	(11) EP4143646	
	(21) EP21731812.0	
	(47) 12.07.2023	
	(87) EP2021066059	

Hitachi, Ltd.	(33) China	(32) 05.05.2017
Hitachi Systems, Ltd.	(51) G05D 1/02	(33) United States of America
(72) OKADA, Norihisa	A01B 69/04	(51) G05D 16/10
INOUE, Kunihiro	A01D 34/00	(11) EP3867727
YAMAUCHI, Shigeru	G06V 20/56	(21) EP18819176.1
NISHIOKA, Masaaki	(11) EP3553620	(47) 12.07.2023
SARUYAMA, Masaaki	(21) EP19160758.9	(87) FR2018052600
KAWAZOE, Toru	(47) 12.07.2023	23.04.2020
NAKATA, Shogo	(22) 20.10.2015	(22) 18.10.2018
(51) G05B 23/02	(54) ROBOTIC VEHICLE GRASS	(54) PRESSURE REGULATOR WITH
(11) EP3885862	STRUCTURE DETECTION	INBUILT SAFETY VALVE TO RELIEVE
(21) EP20165853.1	(73) HUSQVARNA AB	PRESSURE IN THE EVENT OF AN
(47) 12.07.2023	(72) MATTSSON, Anders	OVERPRESSURE DOWNSTREAM
(22) 26.03.2020	GRUFMAN, Stefan	(73) Alcrys Fluid-Control & Services
(54) METHOD FOR STATUS MONITORING	(31) 201462095315 P	(72) ZSIGMOND, Zsolt
(73) Siemens Aktiengesellschaft	201462097312 P	HEYRAL, Olivier
(72) Streich, Bernhard	(32) 22.12.2014	(51) G05D 23/19
Niebler, Ludwig	29.12.2014	F24D 19/10
(51) G05B 23/02	(33) United States of America	(11) EP4016236
(11) EP3403152	United States of America	(21) EP20215547.9
(21) EP16717294.9	(51) G05D 1/02	(47) 12.07.2023
(47) 12.07.2023	B60W 30/00	(22) 18.12.2020
(87) EP2016057596	(11) EP3717981	(54) METHOD AND SYSTEM FOR KEEPING
14.09.2017	(21) EP18811240.3	FLUID FLOW CONSTANT IN A
(22) 07.04.2016	(47) 12.07.2023	RADIATOR
(54) SMART EMBEDDED CONTROL	(87) EP2018082782	(73) Danfoss A/S
SYSTEM FOR A FIELD DEVICE OF AN	06.06.2019	(72) Gammeljord, Peter
AUTOMATION SYSTEM	(22) 28.11.2018	Hesseldahl, Søren
(73) Siemens Aktiengesellschaft	(54) METHODS FOR TRAINING AND	(51) G05D 23/19
(72) ROSHCIN, Mikhail	CONTROLLING AN ARTIFICIAL	F24F 11/81
ROSCA, Justinian	NEURAL NETWORK WITH DISCRETE	G01R 31/28
HUBAUER, Thomas	VEHICLE DRIVING COMMANDS	(11) EP3891573
LAMPARTER, Steffen	(73) Audi AG	(21) EP19824110.1
(31) 201662305621 P	Volkswagen Aktiengesellschaft	(47) 12.07.2023
(32) 09.03.2016	(72) SALEEM, Muneeb	(87) US2019063500
(33) United States of America	(31) 201715827982	11.06.2020
(51) G05B 23/02	(32) 30.11.2017	(22) 27.11.2019
B62D 57/02	(33) United States of America	(54) SYSTEM AND METHOD FOR
G05B 19/048	(51) G05D 1/08	CONTROLLING TEMPERATURE AT
B25J 9/16	B64D 31/06	TEST SITES
(11) EP3559769	G05D 1/00	(73) Temptronic Corporation
(21) EP17832460.4	(11) EP4057102	(72) ELSDOERFER, Norbert
(47) 12.07.2023	(21) EP22161463.9	WENG, Chuan
(87) AT2017060346	(47) 12.07.2023	(31) 201916692334
28.06.2018	(22) 10.03.2022	201862775169 P
(22) 22.12.2017	(54) METHOD FOR ADJUSTING	(32) 22.11.2019
(54) AUTONOMOUS MOBILE ROBOT AND	DIRECTIONAL MOVEMENT ABILITY	04.12.2018
METHOD FOR CONTROLLING AN	FOR A MULTI-ROTOR AIRCRAFT	(33) United States of America
AUTONOMOUS MOBILE ROBOT	(73) Textron Innovations Inc.	United States of America
(73) Robart GmbH	(72) Mistry, Manish J.	(51) G05D 23/19
(72) ARTES, Harold	Peters, Russell C.	H05K 7/20
ALEXANDROV, Vladimir	Kim, Sung K.	(11) EP4116792
MASCHER, Erwin	(31) 202117197212	(21) EP22180703.5
(31) 102016125408	(32) 10.03.2021	(47) 12.07.2023
(32) 22.12.2016	(33) United States of America	(22) 23.06.2022
(33) Germany	(51) G05D 1/10	(54) POWER SUPPLY CONTROL
(51) G05D 1/02	B64C 39/02	APPARATUS AND TEMPERATURE
(11) EP3842889	G05D 1/00	CONTROL METHOD
(21) EP20216873.8	(11) EP3619591	(73) Yazaki Corporation
(47) 12.07.2023	(21) EP18795058.9	(72) HANAOKA, Hiromichi
(22) 23.12.2020	(47) 12.07.2023	(31) 2021112931
(54) VEHICLE CONTROL METHOD FOR	(87) US2018031068	(32) 07.07.2021
PLATOONING, VEHICLE MOUNTED	08.11.2018	(33) Japan
APPARATUS AND VEHICLE	(22) 04.05.2018	(51) G05F 1/46
(73) Beijing Tusen Zhitu Technology Co., Ltd.	(54) LEADING DRONE	G01T 1/185
(72) XU, Yong	(73) Shanghai Autoflight Co., Ltd.	(11) EP3444698
(31) 201911347449	(72) TU, Haofeng	(21) EP18189311.6
(32) 24.12.2019	(31) 201715588290	



(47) 12.07.2023	PARK, Seonkeun	(33) France
(22) 16.08.2018	KIM, Yuguen	(51) G06F 3/01
(54) METHOD AND DEVICE PROVIDING HIGH-VOLTAGE FEEDBACK OF A GAS DETECTOR	(31) 20160045052 (32) 12.04.2016 (33) Korea (Republic)	B60K 35/00 G06F 3/16 B60K 37/06
(73) Commissariat à l'énergie atomique et aux énergies alternatives	(51) G06F 1/16 H05K 5/00	(11) EP3485351 (21) EP17758344.0
(72) BOUTEILLE, Simon PROCUREUR, Sébastien	H04M 1/02 (11) EP3971678	(47) 12.07.2023 (87) US2017046924
(31) 1757755	(21) EP21185343.7	22.02.2018
(32) 18.08.2017	(47) 12.07.2023	(22) 15.08.2017
(33) France	(22) 13.07.2021	(54) COMMAND PROCESSING USING MULTIMODAL SIGNAL ANALYSIS
(51) G05F 3/26 G08B 17/107	(54) ELECTRONIC DEVICE WITH ROTATING DISPLAY INTERFACE	(73) Apple Inc.
(11) EP3819741	(73) Delta Electronics, Inc.	(72) BOWMAN, Douglas A.
(21) EP19858025.0	(72) LI, You-Lin	KIENZLE, Wolf
(47) 12.07.2023	YU, Chun-Hsien	(31) 201715676921
(87) CN2019104885	(31) 202010776035	201662375267 P
12.03.2020	(32) 05.08.2020	(32) 14.08.2017
(22) 09.09.2019	(33) China	15.08.2016
(54) CONSTANT CURRENT DRIVING CIRCUIT AND CORRESPONDING PHOTOELECTRIC SMOKE ALARM CIRCUIT	(51) G06F 1/20 H01L 21/48	(33) United States of America United States of America
(73) CRM ICBG (Wuxi) Co., Ltd.	(11) EP4006694	(51) G06F 3/01
(72) ZHANG, Tianshun	(21) EP21194345.1	G06F 3/03
ZNEG, Jieqiong	(47) 12.07.2023	H04N 9/31
DING, Zengwei	(22) 01.09.2021	(11) EP3588247
ZHOU, Yujie	(54) COOLING DEVICE WITH EASY-TO-WELD STRUCTURE	(21) EP17897499.4
(31) 201811041244	(73) Sunonwealth Electric Machine Industry Co., Ltd.	(47) 12.07.2023
(32) 07.09.2018	(72) LI, Ming-Tsung	(87) JP2017046255
(33) China	YEH, Chi-Ting	30.08.2018
(51) G06F 1/16 G02B 27/01	HORNG, Alex	(22) 22.12.2017
(11) EP3894981	(31) 109141372	(54) INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, AND PROGRAM
(21) EP19832504.5	(32) 25.11.2020	(73) Sony Group Corporation
(47) 12.07.2023	(33) Taiwan, Chinese Taipei	(72) MATSUDA, Shinji
(87) US2019065254	(51) G06F 1/20 H05K 7/20	HAMAJIMA, Tomoki
18.06.2020	(11) EP3979042	SAITO, Yuichiro
(22) 09.12.2019	(21) EP21171849.9	(31) 2017033594
(54) MODULAR ACCESSORY SYSTEMS FOR WEARABLE DEVICES	(47) 12.07.2023	(32) 24.02.2017
(73) Google LLC	(22) 03.05.2021	(33) Japan
(72) STIVORIC, John	(54) LIQUID COOLING SYSTEM FOR COOLING COMPUTING DEVICE	(51) G06F 3/01 G06F 3/0488 H04M 1/00
ROBERTSON, Kenneth	(73) Quanta Computer Inc.	(11) EP3614232
KOTHARI, Jay	(72) CHEN, Chao-Jung	(21) EP18787113.2
GRADWOHL, Raymond	HUANG, Yu-Nien	(47) 12.07.2023
HOOVER, Christopher	TAN, Herman	(87) JP2018014730
GAGNE, Jacques	(31) 202117165597	25.10.2018
CHUA, Melvin	202063086359 P	(22) 06.04.2018
ZWEBER, Zoey	(32) 02.02.2021	(54) ELECTRONIC DEVICE, PROGRAM, AND CONTROL METHOD
(31) 201816220735	01.10.2020	(73) Kyocera Corporation
(32) 14.12.2018	(33) United States of America United States of America	(72) SHIMADA Kenji
(33) United States of America	(51) G06F 3/01	MASUIKE Isao
(51) G06F 1/16 G09F 9/30 H04M 1/02	(11) EP3734421	TANABE Shigeki
(11) EP3428770	(21) EP20155505.9	SAKUMA Manabu
(21) EP17782556.9	(47) 12.07.2023	UENO Yasuhiro
(47) 12.07.2023	(22) 04.02.2020	YAMAUCHI Koutaro
(87) KR2017000217	(54) DEVICE FOR VIRTUAL, AUGMENTED OR MIXED REALITY	MORITA Hideki
19.10.2017	(73) Commissariat à l'Energie Atomique et aux Energies Alternatives	(31) 2017082326
(22) 06.01.2017	(72) RASCLE, Angélique	(32) 18.04.2017
(54) FLEXIBLE ELECTRONIC DEVICE	FANGET, Stéphane	(33) Japan
(73) Samsung Electronics Co., Ltd.	CASSET, Fabrice	(51) G06F 3/0354 G06F 3/02 G06F 3/01 H01H 13/14 H01H 13/85
(72) KIM, Donghun SON, Hyunkeun HWANG, Jinsang	(31) 1901269 (32) 08.02.2019	

H01H 35/26	Samsung Electronics Co., Ltd.	(33) United States of America
H01H 3/32	(72) Park, Young Hee	(51) G06F 3/0486
(11) EP3584685	Seo, Jung Yun	G06F 3/0484
(21) EP19189081.3	Seon, Choong Nyoun	G06F 3/0481
(47) 12.07.2023	Jeong, Myeong Gi	G06F 3/0483
(22) 15.06.2015	Kim, Kwang Choon	G06F 1/16
(54) INPUT DEVICES	(31) 20080034361	(11) EP3572920
(73) Razer (Asia-Pacific) Pte. Ltd.	(32) 14.04.2008	(21) EP19173163.7
(72) LONG, Shyh Lai	(33) Korea (Republic)	(47) 12.07.2023
UNNIKRISHNAN, Sreenath	(51) G06F 3/0481	(22) 13.05.2010
LOW, Kok Kiong	H04L 9/40	(54) MOBILE DEVICE AND METHOD FOR
(31) PCT/SG2015/000116	H04L 67/52	EDITING PAGES USED FOR A HOME
(32) 07.04.2015	(11) EP3596905	SCREEN
(33) World Intellectual Property Office (WIPO)	(21) EP18767327.2	(73) Samsung Electronics Co., Ltd.
(51) G06F 3/041	(47) 12.07.2023	(72) LEE, Bong Won
H03K 17/96	(87) US2018022424	SHIN, Seung Woo
(11) EP4118518	20.09.2018	(31) 20090043412
(21) EP22729477.4	(22) 14.03.2018	(32) 19.05.2009
(47) 12.07.2023	(54) SYSTEMS AND METHODS FOR	(33) Korea (Republic)
(87) EP2022062998	DETECTING AND LOCATING	(51) G06F 3/04883
01.12.2022	UNSECURED SENSORS IN A	G06F 3/0482
(22) 13.05.2022	NETWORK	G06F 3/04842
(54) SIGNAL EVALUATION METHOD	(73) Financial & Risk Organisation Limited	G06F 3/04886
(73) Mercedes-Benz Group AG	(72) SINGH, Jennifer	G06F 3/0485
(72) WINKLER, Matthias	SHEN, Juanjie Joyce	H04N 21/422
MÖRZ, Sebastian	OUELLETTE, Corey	(11) EP3126952
OEHMEN, Jürgen	SHAVIT, Amit	(21) EP15736119.7
(31) 102021002801	(31) 201762471383 P	(47) 12.07.2023
(32) 26.05.2021	(32) 15.03.2017	(87) US2015037520
(33) Germany	(33) United States of America	30.12.2015
(51) G06F 3/044	(51) G06F 3/04817	(22) 24.06.2015
(11) EP3614244	G06F 3/0486	(54) INPUT DEVICE AND USER INTERFACE
(21) EP18906711.9	G06F 3/0483	INTERACTIONS
(47) 12.07.2023	(11) EP3979054	(73) Apple Inc.
(87) CN2018093776	(21) EP20813220.9	(72) FOLSE, Jennifer, L.C.
02.01.2020	(47) 12.07.2023	LOCHHEAD, Jonathan
(22) 29.06.2018	(87) CN2020080430	HOWARD, Joe
(54) TOUCH SCREEN ADJUSTMENT	03.12.2020	KEIGHNAN, Benjamin, W.
METHOD, TOUCH CHIP AND	(22) 20.03.2020	BACHMAN, William, M.
ELECTRONIC TERMINAL	(54) ICON DISPLAYING METHOD AND	ROBBIN, Jeffrey, L.
(73) Shenzhen Goodix Technology Co., Ltd.	TERMINAL DEVICE	VAN OS, Marcel
(72) FENG, Yejia	(73) Vivo Mobile Communication Co., Ltd.	CHAUDHRI, Imran
WANG, Haolei	(72) ZHI, Xiaodong	SABATELLI, Alessandro
PI, Bo	(31) 201910458667	MISSIG, Julian
HUANG, Xing	(32) 29.05.2019	ZAMBETTI, Nicholas
YANG, Xiaohong	(33) China	MCGLINN, Joshua
(51) G06F 3/0481	(51) G06F 3/0482	CHEN, Elbert, D.
G06F 40/284	G06F 3/04883	KRESS, Lynne
G06F 40/279	H04M 1/72415	(31) 201462016593 P
G06F 16/332	H04N 21/41	(32) 24.06.2014
H04M 1/725	H04N 21/422	(33) United States of America
H04M 1/2745	H04N 21/4227	(51) G06F 3/06
H04L 51/046	H04N 21/431	(11) EP3862864
H04M 1/2753	H04N 21/47	(21) EP21152180.2
H04M 1/72403	H04N 21/482	(47) 12.07.2023
H04M 1/72436	H04N 21/643	(22) 02.08.2018
H04M 1/72445	(11) EP3779661	(54) ENSURING REPRODUCIBILITY
H04M 1/72451	(21) EP20192716.7	IN AN ARTIFICIAL INTELLIGENCE
H04L 51/56	(47) 12.07.2023	INFRASTRUCTURE
(11) EP3664385	(22) 16.04.2010	(73) Pure Storage, Inc.
(21) EP19217435.7	(54) DIRECTIONAL TOUCH REMOTE	(72) KIM, Roy
(47) 12.07.2023	(73) Apple Inc.	WATKINS, Emily
(22) 14.04.2009	(72) LINDLEY, Gregory Charles	OSTROVSKY, Igor
(54) COMMUNICATION TERMINAL AND	CANNISTRARO, Alan	JIBAJA, Ivan
METHOD OF PROVIDING UNIFIED	BRODERSEN, Rainer	GOLD, Brian
INTERFACE TO THE SAME	ROBBIN, Jeffrey L.	(31) 201816045814
(73) Industry-University Cooperation	(31) 434556	201862650736 P
Foundation Sogang University	(32) 01.05.2009	201862648368 P

201862620286 P	(21) EP15765827.9	(22) 27.05.2016
201762579057 P	(47) 12.07.2023	(54) ONLINE MARKETPLACE OF PLUGINS FOR ENHANCING DIALOG SYSTEMS
201762576523 P	(87) KR2015002809	(73) Google LLC
201762574534 P	24.09.2015	(72) SIROTIN, Pavel
(32) 26.07.2018	(22) 23.03.2015	GELFENBEYN, Ilya
30.03.2018	(54) METHOD AND DEVICE FOR DISPLAYING IMAGE	GONCHARUK, Artem
26.03.2018	(73) Samsung Electronics Co., Ltd.	(31) 201562166683 P
22.01.2018	(72) JEONG, Hak-su	(32) 27.05.2015
30.10.2017	(31) 20150022722	(33) United States of America
24.10.2017	20140033709	<hr/>
19.10.2017	(32) 13.02.2015	(51) G06F 8/65
(33) United States of America	21.03.2014	(11) EP3770754
United States of America	(33) Korea (Republic)	(21) EP20187347.8
United States of America	Korea (Republic)	(47) 12.07.2023
United States of America	<hr/>	(22) 23.07.2020
United States of America	(51) G06F 5/06	(54) SERVER, SOFTWARE UPDATE SYSTEM, AND SOFTWARE UPDATE APPARATUS
United States of America	G06F 5/12	(73) Hitachi, Ltd.
<hr/>	(11) EP3857386	(72) OISHI, Haruki
(51) G06F 3/06	(21) EP18934951.7	TERAOKA, Hidetoshi
H04L 67/1097	(47) 12.07.2023	MARU, Mitsunori
(11) EP3599547	(87) CN2018107896	(31) 2019136505
(21) EP19161579.8	02.04.2020	(32) 24.07.2019
(47) 12.07.2023	(22) 27.09.2018	(33) Japan
(22) 08.03.2019	(54) DATA STORED OR FREE SPACE BASED FIFO BUFFER	<hr/>
(54) ELASTIC STORAGE VOLUME TYPE SELECTION AND OPTIMIZATION ENGINE FOR PUBLIC CLOUD ENVIRONMENTS	(73) INTEL Corporation	(51) G06F 8/658
(73) Accenture Global Solutions Limited	(72) ZHANG, Yong	(11) EP3933573
(72) PV, Guruprasad	LI, Yuanyuan	(21) EP20790490.5
PURUSHOTHAMAN, Arun	PAN, Yanjie	(47) 12.07.2023
SRINIVASAN, Madhan Kumar	JIANG, Yong	(87) CN2020080610
(31) 201841027749	<hr/>	22.10.2020
201816154174	(51) G06F 8/30	(22) 23.03.2020
(32) 24.07.2018	G06F 8/35	(54) ZERO DIFFERENTIAL UPGRADE METHOD, NON-VOLATILE STORAGE MEDIUM AND ELECTRONIC DEVICE
08.10.2018	G06F 9/54	(73) ZTE Corporation
(33) India	G06F 8/65	(72) CAO, Gang
United States of America	(11) EP3394743	(31) 201910309724
<hr/>	(21) EP16880005.0	(32) 17.04.2019
(51) G06F 3/12	(47) 12.07.2023	(33) China
G06F 3/0481	(87) US2016067944	<hr/>
(11) EP3508970	29.06.2017	(51) G06F 9/38
(21) EP18150390.5	(22) 21.12.2016	G06F 9/46
(47) 12.07.2023	(54) METHOD AND APPARATUS FOR CREATING AND MANAGING CONTROLLER BASED REMOTE SOLUTIONS	G06F 15/78
(22) 05.01.2018	(73) Chandaria, Trisala	G06F 12/10
(54) A DYNAMIC USER INTERFACE SYSTEM AND A METHOD THEREFOR	Leonelli, Jean-Baptiste	(11) EP3654178
(73) Canon Production Printing Holding B.V.	Ciambella Ltd.	(21) EP19212314.9
(72) Van Dun, Josephus A.M.	(72) LEONELLI, Jean-Baptiste	(47) 12.07.2023
Krikke, Nanne	CHANDARIA, Trisala	(22) 30.03.2012
<hr/>	(31) 201662377963 P	(54) MECHANISM FOR ISSUING REQUESTS TO AN ACCELERATOR FROM MULTIPLE THREADS
(51) G06F 3/12	201562270107 P	(73) Intel Corporation
G06F 3/0482	(32) 22.08.2016	(72) RONEN, Ronny
(11) EP3910465	21.12.2015	WEISSMANN, Eliezer
(21) EP20174404.2	(33) United States of America	GINZBURG, Boris
(47) 12.07.2023	United States of America	<hr/>
(22) 13.05.2020	(51) G06F 8/61	(51) G06F 9/4401
(54) COMPUTER SYSTEM FOR MONITORING A PLURALITY OF PRINTING SYSTEMS	G06Q 20/12	(11) EP3447640
(73) Canon Production Printing Holding B.V.	H04L 9/40	(21) EP18187302.7
(72) HERMUS, Bastiaan J.	H04M 3/42	(47) 12.07.2023
NAUTA, Gadze C.	H04M 3/537	(22) 03.08.2018
<hr/>	H04M 7/00	(54) OPERATING SYSTEM UP BOOT OPTIMIZATIONS
(51) G06F 3/14	G06F 9/445	(73) Harman International Industries Incorporated (STM)
G09G 5/14	G10L 15/22	(72) MEWAR, Rohit
G09G 3/00	(11) EP3304288	VARGHESE, Eugene
G06F 1/16	(21) EP16800765.6	(31) 201741028982
G06F 3/01	(47) 12.07.2023	201715785412
G06F 3/03	(87) US2016034504	
(11) EP3121688	01.12.2016	

(32) 16.08.2017 16.10.2017	(31) 201615261596	(47) 12.07.2023
(33) India	(32) 09.09.2016	(87) KR2018015007
United States of America	(33) United States of America	27.06.2019
(51) G06F 9/455	(51) G06F 9/50	(22) 29.11.2018
G06F 9/44	G06F 9/48	(54) APPARATUS AND METHOD FOR
G06F 8/60	(11) EP3869334	DIAGNOSING COMMUNICATION
(11) EP3734449	(21) EP20209373.8	ABNORMALITY
(21) EP20150741.5	(47) 12.07.2023	(73) LG Energy Solution, Ltd.
(47) 12.07.2023	(22) 24.11.2020	(72) SUNG, Yong-Chul
(22) 20.06.2011	(54) CONCURRENT WORKLOAD	(31) 20170177112
(54) SYSTEMS AND METHODS FOR	SCHEDULING WITH MULTIPLE LEVEL	(32) 21.12.2017
INTEGRATION OF AN APPLICATION	OF DEPENDENCIES	(33) Korea (Republic)
RUNTIME ENVIRONMENT INTO A	(73) INTEL Corporation	(51) G06F 11/07
USER COMPUTING ENVIRONMENT	(72) Fliflet, Brandon	(11) EP3401789
(73) Sweetlabs, Inc.	Mrozek, Michal	(21) EP17170071.9
(72) CHAVARRIA, Damien	Dunajski, Bartosz	(47) 12.07.2023
ROBINSON, Aaron	(31) 202016796836	(22) 09.05.2017
BOURKE, Adrian	(32) 20.02.2020	(54) ANOMALY DETECTION IN TIME
MACHADO, Blake	(33) United States of America	SERIES
MEREDITH, Matt	(51) G06F 9/50	(73) Skyline Communications NV
(31) 37701010 P	G06F 16/2455	(72) LEDOUX, Veerle
35651310 P	(11) EP3172682	LAPON, Jorn
(32) 25.08.2010	(21) EP15750167.7	FERRANTI, Micol
18.06.2010	(47) 12.07.2023	DREESEN, Dennis
(33) United States of America	(87) US2015040734	(51) G06F 11/14
United States of America	28.01.2016	(11) EP3789880
(51) G06F 9/455	(22) 16.07.2015	(21) EP20193748.9
G06F 9/54	(54) DISTRIBUTING AND PROCESSING	(47) 12.07.2023
(11) EP3908928	STREAMS OVER ONE OR MORE	(22) 31.08.2020
(21) EP19845934.9	NETWORKS FOR ON-THE-FLY	(54) SYSTEM AND METHOD FOR
(47) 12.07.2023	SCHEMA EVOLUTION	CONSISTENT BACKUP OF
(87) US2019069019	(73) Cisco Technology, Inc.	DISTRIBUTED, TRANSACTIONAL
16.07.2020	(72) KRISHNAMURTHY, Saileshwar	DATABASES
(22) 31.12.2019	(31) 201414341676	(73) Palantir Technologies Inc.
(54) LOW-LATENCY EVENTS ACROSS A	(32) 25.07.2014	(72) Baker, James
VIRTUAL MACHINE BOUNDARY	(33) United States of America	(31) 202017006109
(73) Microsoft Technology Licensing, LLC	(51) G06F 9/54	201962895374 P
(72) BAK, Yevgeniy	(11) EP3418894	(32) 28.08.2020
EBERSOL, Michael	(21) EP17805800.4	03.09.2019
BROAS, Kevin	(47) 12.07.2023	(33) United States of America
DENBOW, Shawn, Michael	(87) CN2017086450	United States of America
KLEYNHANS, Christopher Peter	07.12.2017	(51) G06F 11/16
HUFNAGEL, Stephen, Louis-Essman	(22) 27.05.2017	G06F 11/14
LIU, Wen Jia	(54) METHOD FOR COMMUNICATION IN	(11) EP4002123
KARADEMIR, Ahmed, Saruhan	OPERATING SYSTEM AND RELATED	(21) EP22150669.4
IYIGUN, Mehmet	PRODUCTS	(47) 12.07.2023
LIN, Jason	(73) GUANGDONG OPPO MOBILE	(22) 25.09.2009
COLOMBO, Gregory, John	TELECOMMUNICATIONS CORP., LTD.	(54) METHOD AND SYSTEMS FOR
(31) 201916243938	(72) ZENG, Yuanqing	RESTARTING A FLIGHT CONTROL
(32) 09.01.2019	(31) 201610380683	SYSTEM
(33) United States of America	(32) 31.05.2016	(73) General Electric Company
(51) G06F 9/48	(33) China	(72) JANSEN, Justin
(11) EP3510485	(51) G06F 9/54	PIERCE, David Barnard
(21) EP17762281.8	(11) EP3588298	(31) 242357
(47) 12.07.2023	(21) EP18207741.2	(32) 30.09.2008
(87) US2017048163	(47) 12.07.2023	(33) United States of America
15.03.2018	(22) 22.11.2018	(51) G06F 11/22
(22) 23.08.2017	(54) ENABLING SYNCHRONOUS EDITABLE	G11C 29/00
(54) SYSTEMS AND METHODS FOR	SIGNALS IN PROCESS MODELING	(11) EP3168746
PERFORMING LIVE MIGRATIONS OF	(73) SAP SE	(21) EP16198506.4
SOFTWARE CONTAINERS	(72) KULKARNI, Gopalkrishna	(47) 12.07.2023
(73) Veritas Technologies LLC	(31) 201816014453	(22) 11.11.2016
(72) MEHTA, Vallari	(32) 21.06.2018	(54) HARDWARE MONITOR TO VERIFY
CAO, Zhichao	(33) United States of America	MEMORY UNITS
WEN, Hao	(51) G06F 11/07	(73) Imagination Technologies Limited
MAKIN, Gaurav	(11) EP3644183	(72) SINGLETON, Iain
KANTOR, Kody	(21) EP18891095.4	DARBARI, Ashish
		(31) 201519890

(32) 11.11.2015	(33) Japan	Dority, Justin
(33) United Kingdom	(51) G06F 13/42	Lentz, Michael
(51) G06F 11/34	G06F 1/32	Milton, Quincy
G06F 11/30	G06F 13/16	Skorupski, Ryan
(11) EP3857381	H04L 7/033	Godbole, Aditi
(21) EP19805453.8	G06F 1/04	Kelley, Ian
(47) 12.07.2023	G06F 1/12	Tsai, Henry
(87) US2019058054	H04L 7/00	Horacek, Adam
30.04.2020	G06F 1/3237	Kale, Uma
(22) 25.10.2019	(11) EP3529947	Zhang, Haizhen
(54) COLLECTING SAMPLES	(21) EP17862580.2	(31) 202017084107
HIERARCHICALLY IN A DATACENTER	(47) 12.07.2023	(32) 29.10.2020
(73) VMware, Inc.	(87) IB2017055411	(33) United States of America
(72) GUPTA, Ashutosh	26.04.2018	(51) G06F 16/29
RASTOGI, Gaurav	(22) 08.09.2017	G06F 40/169
(31) 201862751114 P	(54) INTERFACE SYSTEM	G06F 40/205
(32) 26.10.2018	(73) Kioxia Corporation	G06V 20/10
(33) United States of America	(72) SAITO, Toshitada	G06V 30/262
(51) G06F 11/34	FUJIMOTO, Akihisa	(11) EP2583201
G06F 11/36	(31) 2016206337	(21) EP11796149.0
(11) EP3792767	(32) 20.10.2016	(47) 12.07.2023
(21) EP19197354.4	(33) Japan	(87) US2011038568
(47) 12.07.2023	(51) G06F 15/00	22.12.2011
(22) 13.09.2019	G06F 8/41	(22) 31.05.2011
(54) EVENT PROCESSING	G06F 9/38	(54) IDENTIFYING ESTABLISHMENTS IN
(73) Accemic Technologies GmbH	(11) EP3729286	IMAGES
(72) Weiss, Alexander	(21) EP18890584.8	(73) Google LLC
(51) G06F 12/0862	(47) 12.07.2023	(72) FROME, Andrea
G06F 12/1027	(87) US2018067377	URBACH, Shlomo
G06F 9/38	27.06.2019	YADID, Tal
G06F 9/30	(22) 21.12.2018	BEN-HAIM, Noam
G06F 12/1045	(54) SYSTEM AND METHOD FOR	NETZER, Yuval
(11) EP4020228	EXECUTING INSTRUCTIONS	(31) 201113105842
(21) EP21197392.0	(73) ALIBABA GROUP HOLDING LIMITED	201113105853
(47) 12.07.2023	(72) JIANG, Xiaowei	356342 P
(22) 17.09.2021	HAN, Liang	(32) 11.05.2011
(54) DEVICE, SYSTEM AND METHOD FOR	(31) 201762610111 P	11.05.2011
SELECTIVELY DROPPING SOFTWARE	(32) 22.12.2017	18.06.2010
PREFETCH INSTRUCTIONS	(33) United States of America	(33) United States of America
(73) Intel Corporation	(51) G06F 16/22	United States of America
(72) Hur, Ibrahim	G06F 16/2453	United States of America
Heiman, Wim	G06F 16/2455	(51) G06F 16/70
(31) 202017133414	(11) EP3289484	G06F 16/583
(32) 23.12.2020	(21) EP16719086.7	(11) EP3776261
(33) United States of America	(47) 12.07.2023	(21) EP19799936.0
(51) G06F 13/36	(87) EP2016059558	(47) 12.07.2023
G06F 13/38	03.11.2016	(87) CN2019085630
G06F 3/147	(22) 28.04.2016	14.11.2019
H04L 25/14	(54) METHOD AND DATABASE COMPUTER	(22) 06.05.2019
G09G 5/00	SYSTEM FOR PERFORMING A	(54) SYSTEMS AND METHODS FOR IMAGE
H04N 23/50	DATABASE QUERY USING A BITMAP	SEARCHING
(11) EP3637715	INDEX	(73) Zhejiang Dahua Technology Co., Ltd.
(21) EP18813300.3	(73) Parstream GmbH	(72) LU, Chengxiang
(47) 12.07.2023	(72) BIENERT, Jörg	(31) 201810425927
(87) JP2018020115	HUMMEL, Michael	(32) 07.05.2018
13.12.2018	HEUSSER, Norbert	(33) China
(22) 25.05.2018	(31) 102015106804	(51) G06F 16/78
(54) TRANSMISSION DEVICE, RECEPTION	(32) 30.04.2015	(11) EP3306495
DEVICE, CONTROL METHOD,	(33) Germany	(21) EP17162331.7
PROGRAM, AND TRANSMISSION/	(51) G06F 16/2455	(47) 12.07.2023
RECEPTION SYSTEM	(11) EP3992810	(22) 22.03.2017
(73) Sony Semiconductor Solutions	(21) EP20214487.9	(54) METHOD AND SYSTEM FOR
Corporation	(47) 12.07.2023	ASSOCIATING RECORDED VIDEOS
(72) MIZUNO, Masatoshi	(22) 16.12.2020	WITH HIGHLIGHT AND EVENT TAGS
YOSHIMUCHI, Naoki	(54) CONFIGURABLE ENTITY MATCHING	TO FACILITATE REPLAY SERVICES
(31) 2017114381	SYSTEM	(73) Tankoua Kwimi, Franck
(32) 09.06.2017	(73) SAP SE	Sufuentes, Joaquin
	(72) DuLion, Phillip	(72) Sufuentes, Joaquin

Tankoua Kwimi, Franck	(47) 12.07.2023	(47) 12.07.2023
(31) 201662404156 P	(22) 08.06.2011	(22) 18.03.2020
(32) 04.10.2016	(54) STATUS REPORTING OF A	(54) SYSTEMS AND METHODS FOR
(33) United States of America	STRUCTURED COLLECTION	REMOTE DEVICE SECURITY
(51) G06F 17/16	PROCEDURE	ATTESTATION AND MANIPULATION
(11) EP3832499	(73) F. Hoffmann-La Roche AG	DETECTION
(21) EP21154586.8	(72) Diebold, Eric R.	(73) T-Mobile USA, Inc.
(47) 12.07.2023	Greenburg, Alan	(72) OBAIDI, Ahmad Arash
(22) 06.04.2016	Soni, Abhishek	(31) 201916411732
(54) MATRIX COMPUTING DEVICE	Galley, Paul J.	(32) 14.05.2019
(73) Cambricon Technologies Corporation	Weinert, Stefan	(33) United States of America
Limited	Bousamra, Steven	(51) G06F 21/53
(72) Liu, Shaoli	(31) 818894	(11) EP3590063
Zhang, Xiao	(32) 18.06.2010	(21) EP18761732.9
Chen, Tianshi	(33) United States of America	(47) 12.07.2023
Chen, Yunji	(51) G06F 21/32	(87) US2018020549
(31) 201610037535	G06F 21/34	07.09.2018
(32) 20.01.2016	G06F 21/45	(22) 01.03.2018
(33) China	H04L 9/32	(54) DETECTING MALICIOUS BEHAVIOR
(51) G06F 17/16	H04L 9/40	WITHIN LOCAL NETWORKS
G06F 3/06	(11) EP3598328	(73) Cujo LLC
G06F 5/06	(21) EP19186419.8	(72) KUPERMAN, Leonid
G06F 5/08	(47) 12.07.2023	TAKACS, Gabor
G06F 7/52	(22) 16.07.2019	FRAYMAN, Yuri
G06F 15/80	(54) METHOD FOR RECORDING A	VON GRAVROCK, Einaras
G06F 5/14	REFERENCE BIOMETRIC DATA ITEM	(31) 201762477391 P
G06F 7/523	IN A BIOMETRIC CHIP CARD	201762477363 P
(11) EP3407203	(73) IDEMIA France	201762465304 P
(21) EP18163741.4	(72) CLIMEN, Bruno	(32) 27.03.2017
(47) 12.07.2023	MOUROUX, Benoît	27.03.2017
(22) 23.03.2018	(31) 1856665	01.03.2017
(54) STATICALLY SCHEDULABLE FEED	(32) 18.07.2018	(33) United States of America
AND DRAIN STRUCTURE FOR	(33) France	United States of America
SYSTOLIC ARRAY ARCHITECTURE	(51) G06F 21/45	United States of America
(73) INTEL Corporation	H04L 9/08	(51) G06F 21/53
(72) LIEW, Yeong Tat	(11) EP3067815	G06F 21/56
ONG, Jason Gee Hock	(21) EP16159016.1	G06F 21/57
HUANG, Randy	(47) 12.07.2023	H04L 9/40
(31) 201715719922	(22) 07.03.2016	(11) EP3716572
201762488635 P	(54) ACCESS RELATIONSHIPS IN A	(21) EP20162511.8
(32) 29.09.2017	COMPUTER SYSTEM	(47) 12.07.2023
21.04.2017	(73) SSH Communications Security Oyj	(22) 11.03.2020
(33) United States of America	(72) YLÖNEN, Tatu	(54) SYSTEM AND METHOD FOR
United States of America	(31) 201514657595	PERFORMING A TASK ON A
(51) G06F 17/17	(32) 13.03.2015	COMPUTING DEVICE BASED ON
G01R 29/26	(33) United States of America	ACCESS RIGHTS
(11) EP2929459	(51) G06F 21/51	(73) AO Kaspersky Lab
(21) EP13818270.4	G06F 21/44	(72) TATARINOV, Ivan I.
(47) 12.07.2023	H04L 9/32	PAVLOV, Nikita A.
(87) FR2013053001	G06F 21/53	(31) 2019109166
19.06.2014	(11) EP3671508	201916458266
(22) 09.12.2013	(21) EP20171412.8	(32) 29.03.2019
(54) METHOD AND DEVICE FOR	(47) 12.07.2023	01.07.2019
PREDICTIVE EVALUATION OF THE	(22) 24.04.2020	(33) Russian Federation
INTERMODULATION POWER IN AN	(54) CUSTOMIZING OPERATING SYSTEM	United States of America
ELECTRONIC DEVICE	KERNELS WITH SECURE KERNEL	(51) G06F 21/55
(73) Centre National d'Etudes Spatiales	MODULES	H04L 9/40
(CNES)	(73) CyberArk Software Ltd.	G06N 20/00
(72) SOMBRIN, Jacques	(72) STOLER, Nimrod	(11) EP3552138
ALBERT, Isabelle	(31) 202016823932	(21) EP18707813.4
SOUBERCAZE-PUN, Geoffroy	(32) 19.03.2020	(47) 12.07.2023
(31) 1261839	(33) United States of America	(87) US2018017817
(32) 10.12.2012	(51) G06F 21/51	16.08.2018
(33) France	G06F 21/57	(22) 12.02.2018
(51) G06F 17/40	H04L 9/00	(54) MULTI-SIGNAL ANALYSIS
A61B 5/145	H04W 12/30	FOR COMPROMISED SCOPE
(11) EP2690572	(11) EP3739483	IDENTIFICATION
(21) EP13003823.5	(21) EP20163895.4	(73) Microsoft Technology Licensing, LLC

(72) AHMAD, Naveed BRIGGS, Reeves Hoppe LUO, Pengcheng SADOVSKY, Art	(54) PRIVACY PRESERVING CENTROID MODELS USING SECURE MULTI- PARTY COMPUTATION	(11) EP3816836 (21) EP19888840.6 (47) 12.07.2023 (87) CN2019107720 04.06.2020 (22) 25.09.2019 (54) SERVICE EXECUTION METHODS AND APPARATUSES (73) Advanced New Technologies Co., Ltd.
(31) 201715431391 (32) 13.02.2017 (33) United States of America	(73) Google LLC (72) YUNG, Marcel M. Moti WANG, Gang	(72) YANG, Xinying (31) 201811428161 (32) 27.11.2018 (33) China
(51) G06F 21/56 G06F 21/55 G06F 21/50 H04L 9/40	(31) 27776020 (32) 02.10.2020 (33) Israel	(51) G06F 21/62 G16B 30/00 H04L 9/32 G06F 40/194 H04L 9/08 H04L 9/00
(11) EP3948609 (21) EP20782379.0 (47) 12.07.2023 (87) US2020018108 08.10.2020 (22) 13.02.2020	(51) G06F 21/60 H04L 9/40 G06F 21/64 G06F 21/44 G06F 21/72 H04L 9/08 H04L 9/32	(31) 201811428161 (32) 27.11.2018 (33) China
(54) DEFANGING MALICIOUS ELECTRONIC FILES BASED ON TRUSTED USER REPORTING	(11) EP3945442 (21) EP20382690.4 (47) 12.07.2023 (22) 30.07.2020	(51) G06F 21/62 G16B 30/00 H04L 9/32 G06F 40/194 H04L 9/08 H04L 9/00
(73) Material Security Inc. (72) NOON, Ryan M. PARK, Christopher J. AGRAWAL, Abhishek	(54) SECURITY METHOD AND DEVICE FOR ELECTRONIC TRANSACTIONS (73) NTT DATA SPAIN, S.L. (72) RAMÓN TARANCÓN, Sergio	(11) EP3673386 (21) EP18769054.0 (47) 12.07.2023 (87) EP2018072886 28.02.2019 (22) 24.08.2018 (54) EDIT SCRIPT VERIFICATION FOR NUCLEIC ACID SEQUENCES WITH MATCH OPERATIONS AND DIFFERENCE OPERATIONS
(31) 201916376982 (32) 05.04.2019 (33) United States of America	(73) Knowbe4, Inc. (72) KRAS, Greg CLINE, Chris	(73) Koninklijke Philips N.V. (72) VEENINGEN, Meilof Geert ASADOVA, Sakina SCHOENMAKERS, Berry
(51) G06F 21/56 G06F 21/55 H04W 12/128 H04W 12/61	(51) G06F 21/62 G06F 16/00 G06Q 10/10 H04L 9/40	(31) 201862678427 P 201762549683 P (32) 31.05.2018 24.08.2017 (33) United States of America United States of America
(11) EP3816830 (21) EP19306412.8 (47) 12.07.2023 (22) 30.10.2019	(11) EP4128002 (21) EP21811642.4 (47) 12.07.2023 (87) US2021057076 05.05.2022 (22) 28.10.2021	(31) 201862678427 P 201762549683 P (32) 31.05.2018 24.08.2017 (33) United States of America United States of America
(54) DEVICE, INTEGRATED CIRCUIT AND METHODS THEREFOR	(54) SYSTEMS AND METHODS FOR DETERMINATION OF LEVEL OF SECURITY TO APPLY TO A GROUP BEFORE DISPLAY OF USER DATA	(51) G06F 21/64 H04L 9/08 H04L 9/32 H04L 9/00
(73) NXP B.V. (72) NIKOV, Ventzislav MEDWED, Marcel SCHNEIDER, Tobias VESHCHEIKOV, Nikita VERSLEGERS, Rudi BOS, Joppe Willem VENTUZELLOS PEREIRA, Jorge Miguel HOGERBRUGGE, Jan	(31) 202063107625 P (32) 30.10.2020 (33) United States of America	(11) EP3725029 (21) EP18833524.4 (47) 12.07.2023 (87) IB2018059921 20.06.2019 (22) 12.12.2018 (54) COMPUTER-IMPLEMENTED SYSTEMS AND METHODS FOR AUTHORISING BLOCKCHAIN TRANSACTIONS WITH LOW-ENTROPY PASSWORDS
(51) G06F 21/57 G06F 21/71	(51) G06F 21/62 G06F 21/44	(73) nChain Licensing AG (72) FLETCHER, John BARTOLUCCI, Silvia
(11) EP3460705 (21) EP17192894.8 (47) 12.07.2023 (22) 25.09.2017	(11) EP4107643 (21) EP22708838.2 (47) 12.07.2023 (87) EP2022053305 18.08.2022 (22) 10.02.2022	(31) 201721049 (32) 15.12.2017 (33) United Kingdom
(54) DISTRIBUTED DEPLOYMENT OF UNIQUE FIRMWARE	(54) METHODS, MODULE AND BLOCKCHAIN FOR DISTRIBUTED PUBLIC KEYSTORE	(51) G06F 21/78 G06F 21/60 G06F 21/54 G06F 21/55 G06F 21/64 H04L 9/06 H04L 9/08 H04L 9/32 G06F 12/02
(73) Siemens Aktiengesellschaft (72) Feist, Christian Peter Aschauer, Hans Falk, Rainer Schneider, Daniel	(73) Wone Sagl (72) GED, Joseph KFOURY, Elie F KHOURY, David J	
(51) G06F 21/60 G06N 20/00	(31) 2150151 (32) 11.02.2021 (33) Sweden	
(11) EP4052160 (21) EP21789968.1 (47) 12.07.2023 (87) US2021050580 07.04.2022 (22) 16.09.2021	(51) G06F 21/62 G06Q 40/04 G06F 21/16 G06F 21/64 H04L 9/32 H04L 9/00	

G06F 12/14	(32) 10.05.2018	(51) G06K 17/00
G06F 12/0811	(33) China	G06K 19/06
G06F 12/0897	(51) G06K 7/00	G06Q 50/20
(11) EP3757854	(11) EP3252653	(11) EP3852012
(21) EP20163907.7	(21) EP17173857.8	(21) EP21305011.5
(47) 12.07.2023	(47) 12.07.2023	(47) 12.07.2023
(22) 18.03.2020	(22) 31.05.2017	(22) 05.01.2021
(54) MICROPROCESSOR PIPELINE CIRCUITRY TO SUPPORT CRYPTOGRAPHIC COMPUTING	(54) SMART CARD CONNECTOR	(54) SUPPORT FOR REVISIONS
(73) INTEL Corporation	(73) VERIFONE, INC.	(73) Holdham
(72) LEMAY, Michael	(72) FAORO, Dave	(72) JOAN, Éric
KOUNAVIS, Michael	SCHULZ, Christian Eric	(31) 2000101
GHOSH, Santosh	(31) 201615168966	(32) 07.01.2020
SHWARTSMAN, Stanislav	(32) 31.05.2016	(33) France
DURHAM, David M.	(33) United States of America	(51) G06K 19/06
DEUTSCH, Sergej	(51) G06K 7/00	G06Q 10/08
(31) 201916724105	B60C 23/04	(11) EP3869407
201962868884 P	H01M 10/00	(21) EP21151329.6
(32) 20.12.2019	H01Q 1/22	(47) 12.07.2023
29.06.2019	H02J 7/00	(22) 13.01.2021
(33) United States of America	G06K 19/07	(54) LABEL ISSUING APPARATUS AND LABEL ISSUING METHOD
United States of America	(11) EP3671527	(73) Toshiba TEC Kabushiki Kaisha
(51) G06F 40/143	(21) EP19204975.7	(72) Hirahara, Yoshiyuki
G06F 40/146	(47) 12.07.2023	(31) 2020028005
H03M 7/30	(22) 24.10.2019	(32) 21.02.2020
(11) EP3411803	(54) ACTIVE RFID TRANSPONDER	(33) Japan
(21) EP17715073.7	(73) Continental Reifen Deutschland GmbH	(51) G06K 19/07
(47) 12.07.2023	(72) Finger, Sebastian	(11) EP3736737
(87) EP2017057237	Kurz, Martin	(21) EP19173485.4
19.10.2017	Ehmke, Tobias	(47) 12.07.2023
(22) 28.03.2017	Nawrocka-Herczynska, Monika	(22) 09.05.2019
(54) DEVICE AND METHOD FOR PROCESSING A BINARY-CODED STRUCTURE DOCUMENT	(31) 102018222382	(54) TRANSPONDER AND METHOD OF OPERATING THE SAME
(73) Siemens Aktiengesellschaft	(32) 20.12.2018	(73) NXP B.V.
(72) PEINTNER, Daniel	(33) Germany	(72) KONGARI, Raghavendra
SCHOLZ, Andreas	(51) G06K 7/10	RASMUSSEN, Björn
KUNTSCHE, Richard	H04B 5/00	PATHAK, Rahul Ravindra
(31) 102016206046	(11) EP4022491	JOSHI, Shankar
(32) 12.04.2016	(21) EP20793559.4	(51) G06K 19/073
(33) Germany	(47) 12.07.2023	G06K 19/077
(51) G06F 40/58	(87) CZ2020050063	(11) EP3968228
G10L 15/06	11.03.2021	(21) EP21195924.2
G10L 15/26	(22) 03.09.2020	(47) 12.07.2023
G10L 15/32	(54) DEVICE FOR DETECTION OF A SIGNAL OF PASSIVE CHIPS AND METHOD FOR OPERATING THE DEVICE	(22) 10.09.2021
G10L 25/48	(73) Y Soft Corporation	(54) IDENTIFICATION DEVICE COMPRISING A MICROCIRCUIT
(11) EP3792916	(72) KASÍK, Vladislav	(73) Idemia Identity & Security France
(21) EP19799122.7	STANEK, Pavel	(72) KERAUTRET, Laurent
(47) 12.07.2023	(31) 201905620 U	MERCIER, Laurent
(87) CN2019080027	(32) 03.09.2019	HEURTIER, Olivier
14.11.2019	(33) Czech Republic	(31) 2009186
(22) 28.03.2019	(51) G06K 7/14	(32) 10.09.2020
(54) DATA PROCESSING METHOD BASED ON SIMULTANEOUS INTERPRETATION, COMPUTER DEVICE, AND STORAGE MEDIUM	G06T 5/00	(33) France
(73) Tencent Technology (Shenzhen) Company Limited	G06V 10/22	(51) G06K 19/077
(72) LIU, Haikang	H04N 1/407	(11) EP3853774
ZHANG, Yulu	(11) EP3968211	(21) EP19766037.6
SU, Dan	(21) EP21183398.3	(47) 12.07.2023
CHEN, Lianwu	(47) 12.07.2023	(87) EP2019074608
OUYANG, Caisheng	(22) 05.12.2018	26.03.2020
LUO, Min	(54) LOCAL TONE MAPPING FOR SYMBOL READING	(22) 16.09.2019
CHEN, Qi	(73) Cognex Corporation	(54) METHOD FOR CONNECTING AN INTEGRATED CIRCUIT TO AN ELECTRICAL CIRCUIT
BAI, Jingliang	(72) Bachelder, Ivan	(73) Smart Packaging Solutions (SPS)
(31) 201810443090	Gao, Chen	(72) DANLER BAUMGARTNER, Stephan
	(31) 201762595522 P	MEAR, Benjamin
	(32) 06.12.2017	GERIN, Guillaume
	(33) United States of America	(31) 1858420



(32) 18.09.2018	(22) 17.05.2019	Information and Communication Branch
(33) France	(54) RFID TAG AND RFID TAG SYSTEM	of State Grid Fujian Electric Power Co.,
(51) G06K 19/077	(73) Kyocera Corporation	Ltd.
(11) EP3748543	(72) FUKUMOTO, Katsuhiko	State Grid Digital Technology Holding
(21) EP20188330.3	TANAKA, Yuichi	CO., LTD.
(47) 12.07.2023	(31) 2018098366	State Grid Henan Information &
(22) 22.09.2015	(32) 23.05.2018	Telecommunication Company
(54) HYBRID METAL SMARTCARDS	(33) Japan	State Grid Blockchain Technology
(73) FÉINICS AMATECH TEORANTA	(51) G06N 3/02	(Beijing) Co., Ltd.
(72) Molloy, Darren	G06N 3/088	(72) YAN, Huafeng
Finn, David	(11) EP3586275	LI, Da
Lotya, Mustafa	(21) EP18708235.9	WANG, Xinyan
(31) 201562204466 P	(47) 12.07.2023	XUE, Zhen
201562201578 P	(87) SE2018050174	CAI, Yuxiang
201562175308 P	30.08.2018	WANG, Dong
201562163962 P	(22) 22.02.2018	XUAN, Jiaying
201562150307 P	(54) METHOD AND SYSTEM FOR	DONG, Yanxu
201562136644 P	FAULT LOCALIZATION IN A CLOUD	JIA, Zheng
201514619177	ENVIRONMENT	CHEN, Shuai
201414551376	(73) Telefonaktiebolaget LM Ericsson (Publ)	HAN, Shaoqin
201462080332 P	(72) JOHNSON, Andreas	(31) 202011307596
201462061689 P	PASQUINI, Rafael	(32) 19.11.2020
201414492113	JOSEFSSON, Tim	(33) China
(32) 13.08.2015	MORADI, Farnaz	(51) G06N 3/126
06.08.2015	STADLER, Rolf	G06N 20/00
14.06.2015	FLINTA, Christofer	G06N 5/01
19.05.2015	AHMED, Jawwad	G06F 11/36
21.04.2015	(31) 201762463187 P	(11) EP3816806
23.03.2015	(32) 24.02.2017	(21) EP20203986.3
11.02.2015	(33) United States of America	(47) 12.07.2023
24.11.2014	(51) G06N 3/0442	(22) 27.10.2020
16.11.2014	(11) EP3398118	(54) UTILIZING NEURAL NETWORK
08.10.2014	(21) EP16829474.2	AND ARTIFICIAL INTELLIGENCE
22.09.2014	(47) 12.07.2023	MODELS TO SELECT AND EXECUTE
(33) United States of America	(87) US2016069505	TEST CASES IN A SOFTWARE
United States of America	10.08.2017	DEVELOPMENT PLATFORM
United States of America	(22) 30.12.2016	(73) Accenture Global Solutions Limited
United States of America	(54) ASSOCIATIVE LONG SHORT-TERM	(72) VIJENDRA, Anand
United States of America	MEMORY NEURAL NETWORK LAYERS	RAMAKRISHNAN, Venugopal
United States of America	(73) Deepmind Technologies Limited	YALLA, Muralidhar
United States of America	(72) GRAVES, Alexander Benjamin	(31) 201916667255
United States of America	WAYNE, Gregory Duncan	(32) 29.10.2019
United States of America	URIA-MARTINEZ, Benigno	(33) United States of America
United States of America	KALCHBRENNER, Nal Emmerich	(51) G06Q 10/00
United States of America	DANIHELKA, Ivo	G06Q 10/04
(51) G06K 19/077	(31) 201662291467 P	G06F 17/40
F16B 15/00	(32) 04.02.2016	G05B 19/042
F16B 15/08	(33) United States of America	(11) EP3839743
(11) EP3792829	(51) G06N 3/084	(21) EP19861456.2
(21) EP19197580.4	G06Q 30/04	(47) 12.07.2023
(47) 12.07.2023	G06Q 30/06	(87) CN2019105232
(22) 16.09.2019	G06F 21/64	26.03.2020
(54) NAIL WITH RFID TRANSPONDER	G06Q 50/06	(22) 10.09.2019
(73) BeA GmbH	H04L 9/00	(54) SYSTEM-STATE MONITORING
(72) BAUER, Joachim	(11) EP4027292	METHOD AND DEVICE AND STORAGE
FISCHER-ZERNIN, Jakob	(21) EP21865349.1	MEDIUM
THEBERATH, Martin	(47) 12.07.2023	(73) Siemens Ltd., China
(51) G06K 19/077	(87) CN2021115317	(72) LIANG, Xiao
G06K 19/07	27.05.2022	LI, Jing
G06K 19/073	(22) 30.08.2021	ZHOU, Linfei
G06K 7/10	(54) BLOCKCHAIN-BASED ELECTRICITY	SCHNEEGASS, Daniel
G06Q 10/08	CHARGE SETTLEMENT METHOD AND	(31) 201811103227
G06Q 30/06	SYSTEM FOR ENERGY STORAGE	(32) 20.09.2018
(11) EP3798909	STATION	(33) China
(21) EP19808420.4	(73) State Grid Xiong'an Financial Technology	(51) G06Q 10/06
(47) 12.07.2023	Group Co., Ltd.	H04L 12/18
(87) JP2019019630		H04L 51/00
28.11.2019		H04L 51/48

H04L 51/214	United States of America	(73) Samsung Electronics Co., Ltd.
(11) EP3847601	United States of America	(72) KIM, Jae-Hyun
(21) EP20803406.6		HWANG, Ho-Chul
(47) 12.07.2023	(51) G06Q 20/32	KIM, Byeong-Jun
(87) US2020056518	(11) EP3417413	LEE, Jun-Soo
20.05.2021	(21) EP17752783.5	(31) 20160012259
(22) 20.10.2020	(47) 12.07.2023	(32) 01.02.2016
(54) AUTHORIZATIONS ASSOCIATED	(87) IB2017050936	(33) Korea (Republic)
WITH EXTERNALLY SHARED	24.08.2017	
COMMUNICATION RESOURCES	(22) 18.02.2017	(51) G06Q 50/26
(73) Salesforce, Inc.	(54) SYSTEM OF ASCERTAINMENT	H04W 84/18
(72) WAGNER, Lauren Bosak	(73) March Projection Limited	H04W 88/16
MONTAZERI, Michael	(72) CHAN, Kit Meng	(11) EP3516616
DELP, Shanan	(31) 201662296625 P	(21) EP17853684.3
HODGINS, Matthew	(32) 18.02.2016	(47) 12.07.2023
SUN, Yinguy	(33) United States of America	(87) US2017051245
KALKANIS, Anna	(51) G06Q 20/38	29.03.2018
FARRE, Joan Gamell	G06Q 20/12	(22) 13.09.2017
HORTON, Gregg	G06Q 30/06	(54) SENSOR NODE AND SYSTEM FOR
SCHMIDT, Andrew	(11) EP3739541	ENVIRONMENT SENSING
CLEMENSON, Elizabeth	(21) EP20174923.1	(73) General Electric Company
(31) 201916681479	(47) 12.07.2023	(72) POTYRAILO, Radislav, Alexandrovich
(32) 12.11.2019	(22) 15.05.2020	SEXTON, Daniel White
(33) United States of America	(54) METHOD, SYSTEM, AND COMPUTER	GO, Steven
(51) G06Q 10/08	PROGRAM PRODUCT FOR	(31) 201615270442
B65H 63/00	IDENTIFYING A MALICIOUS USER	(32) 20.09.2016
(11) EP3675011	(73) Visa International Service Association	(33) United States of America
(21) EP19217977.8	(72) LENNON, Peter Jackson	(51) G06T 3/00
(47) 12.07.2023	LOONEY, Thomas Joseph	G06T 5/00
(22) 19.12.2019	PROKOP, Bartlomiej Piotr	G06T 11/00
(54) METHOD AND A SYSTEM FOR	MGULLION, Kerry Philomena	G01R 33/56
TRACKING CABLE DRUMS AND	(31) 202016872733	A61B 5/00
LENGTH OF CABLE ON THE DRUM	201962848191 P	A61B 5/055
(73) Prysmian S.p.A.	(32) 12.05.2020	G16H 30/40
(72) ARENA, Antonino	15.05.2019	G16H 30/20
FASSONE, Davide	(33) United States of America	G16H 50/50
(31) 201800021304	United States of America	(11) EP3362984
(32) 28.12.2018	(51) G06Q 50/00	(21) EP16790780.7
(33) Italy	H04W 4/06	(47) 12.07.2023
(51) G06Q 10/083	G06F 16/9535	(87) US2016056538
G06Q 30/0601	H04L 67/50	20.04.2017
G05D 1/00	H04L 67/55	(22) 12.10.2016
B64U 10/10	(11) EP3404556	(54) PSEUDO-CT GENERATION FROM
B64U 10/13	(21) EP16884810.9	MR DATA USING A FEATURE
B64U 10/25	(47) 12.07.2023	REGRESSION MODEL
B64U 30/20	(87) CN2016113895	(73) Eleкта, Inc.
B64C 39/02	20.07.2017	(72) HAN, Xiao
G06Q 20/32	(22) 30.12.2016	(31) 201514881903
G06Q 50/00	(54) INFORMATION RECOMMENDATION	(32) 13.10.2015
G06Q 50/12	METHOD AND APPARATUS, AND	(33) United States of America
B64U 101/30	SERVER	(51) G06T 3/40
B64U 101/60	(73) Tencent Technology (Shenzhen)	(11) EP4024328
(11) EP3411295	Company Limited	(21) EP21791231.0
(21) EP17747051.5	(72) LIU, Dapeng	(47) 12.07.2023
(47) 12.07.2023	CAO, Xiaoqing	(87) CN2021102343
(87) FI2017050025	(31) 201610019783	12.05.2022
10.08.2017	(32) 12.01.2016	(22) 25.06.2021
(22) 19.01.2017	(33) China	(54) METHOD AND APPARATUS FOR MAP
(54) SOCIAL DRONE	(51) G06Q 50/10	FUSION, SERVER AND STORAGE
(73) Väänänen, Mikko	H04R 3/04	MEDIUM
(72) Väänänen, Mikko	(11) EP3401872	(73) Guangzhou Xiaopeng Autopilot
(31) 201615070103	(21) EP16889537.3	Technology Co., Ltd.
201615070062	(47) 12.07.2023	(72) HUANG, Ya
201662289970 P	(87) KR2016014246	LAI, Jianming
(32) 15.03.2016	10.08.2017	ZHANG, Bo
15.03.2016	(22) 06.12.2016	LIU, Zhongyuan
02.02.2016	(54) ELECTRONIC DEVICE FOR	GUANG, Xueling
(33) United States of America	PROVIDING CONTENT AND CONTROL	CHAI, Wennan
	METHOD THEREFOR	GU, Minghui

LI, Hongjun	(33) Germany	(33) United Kingdom
XIAO, Zhiguang	(51) G06T 7/00	(51) G06T 7/12
GAO, Xinyu	G06N 3/02	(11) EP3867871
JIANG, Shaofeng	(11) EP3690809	(21) EP19783274.4
(31) 202011224448	(21) EP20152786.8	(47) 12.07.2023
(32) 05.11.2020	(47) 12.07.2023	(87) EP2019076743
(33) China	(22) 21.01.2020	23.04.2020
(51) G06T 5/00	(54) METHOD AND DEVICE FOR	(22) 02.10.2019
(11) EP3719741	GENERATING SAFE CLOTHING	(54) SYSTEM AND METHOD FOR
(21) EP19194983.3	PATTERNS FOR RIDER OF BIKE	AUTOMATIC DELINEATION OF
(47) 12.07.2023	(73) StradVision, Inc.	SCANNED IMAGES
(22) 02.09.2019	(72) KIM, Kye-Hyeon	(73) Mirada Medical Limited
(54) IMAGE PROCESSING APPARATUS	LEE, Hyungsoo	(72) GOODING, Mark
AND IMAGE PROCESSING METHOD	SUNG, Myungchul	BOUKERROUI, Djamel
THEREOF	RYU, Wooju	BALFOUR, Daniel
(73) Samsung Electronics Co., Ltd.	JANG, Taewoong	(31) 201910573
(72) LIM, Hyungjun	KIM, Hak-Kyoung	201817049
(31) 20190040076	SHIN, Dongsoo	(32) 24.07.2019
(32) 05.04.2019	BOO, SukHoon	19.10.2018
(33) Korea (Republic)	NAM, Woonhyun	(33) United Kingdom
(51) G06T 5/50	JEONG, Kyungjoong	United Kingdom
G06V 20/52	LEE, Myeong-Chun	(51) G06T 7/12
(11) EP4010873	JE, Hongmo	G06T 7/149
(21) EP20849792.5	KIM, Yongjoong	(11) EP3608872
(47) 12.07.2023	CHO, Hojin	(21) EP17908558.4
(87) IL2020050842	YEO, Donghun	(47) 12.07.2023
11.02.2021	(31) 202016740085	(87) CN2017083184
(22) 30.07.2020	201962799347 P	08.11.2018
(54) USE OF AN HDR IMAGE IN A VISUAL	(32) 10.01.2020	(22) 05.05.2017
INSPECTION PROCESS	31.01.2019	(54) IMAGE SEGMENTATION METHOD AND
(73) Inspekto A.M.V Ltd	(33) United States of America	SYSTEM
(72) HYATT, Yonatan	United States of America	(73) Shanghai United Imaging Healthcare
(31) 26861219	(51) G06T 7/11	Co., Ltd.
201962884216 P	G06T 7/155	(72) WANG, Xiaodong
(32) 08.08.2019	G06T 7/194	GUO, Yanen
08.08.2019	G06V 10/26	SHEN, Jianhua
(33) Israel	G06V 10/52	(51) G06T 7/12
United States of America	G06V 40/12	G06T 7/149
(51) G06T 7/00	G06T 7/187	(11) EP2603136
(11) EP4050560	(11) EP3608835	(21) EP11817152.9
(21) EP21769326.6	(21) EP19189722.2	(47) 12.07.2023
(47) 12.07.2023	(47) 12.07.2023	(87) US2011047674
(87) CN2021100012	(22) 02.08.2019	16.02.2012
14.07.2022	(54) METHOD FOR PROCESSING IMAGES	(22) 12.08.2011
(22) 15.06.2021	OF FINGERPRINTS	(54) DETECTION OF ANATOMICAL
(54) WAFER TESTING METHOD AND	(73) Idemia Identity & Security France	LANDMARKS
APPARATUS, AND DEVICE AND	(72) KAZDAGHLI, Laurent	(73) Smith & Nephew, Inc.
STORAGE MEDIUM	(31) 1857447	(72) NADZADI, Mark Ellsworth
(73) Changxin Memory Technologies, Inc.	(32) 10.08.2018	AGNIGOTRI, Aashiish
(72) QU, Deqing	(33) France	RUMERY, Megan Patrice
(31) 202110022536	(51) G06T 7/11	BUISSERET, Mark Joseph
(32) 08.01.2021	G06T 7/174	MCKINNON, Brian william
(33) China	G06T 7/00	(31) 373630 P
(51) G06T 7/00	G06T 7/12	(32) 13.08.2010
A61B 5/00	(11) EP3807839	(33) United States of America
A61B 34/10	(21) EP19730892.7	(51) G06T 7/20
A61B 17/00	(47) 12.07.2023	G06T 7/246
(11) EP3786884	(87) GB2019051485	G06T 7/593
(21) EP20150166.5	19.12.2019	(11) EP3679549
(47) 12.07.2023	(22) 30.05.2019	(21) EP18759973.3
(22) 03.01.2020	(54) DEFORMITY EDGE DETECTION	(47) 12.07.2023
(54) HAIR TRANSPLANT PLANNING	(73) Fuel 3D Technologies Limited	(87) EP2018073641
SYSTEM	(72) DEHMESHKI, Jamshid	07.03.2019
(73) TrichoLAB GmbH	NAVARRO, Leo	(22) 03.09.2018
(72) KASPRZAK, Michal	ZABAIR, Adeala	(54) VISUAL-INERTIAL ODOMETRY WITH
(31) 102019123118	THAW, George	AN EVENT CAMERA
(32) 28.08.2019	(31) 201809768	(73) Universität Zürich
	(32) 14.06.2018	(72) SCARAMUZZA, Davide

REBECQ, Henri	(54) IDENTIFICATION OF A PANTOGRAPH REPRESENTED IN AN IMAGE	(21) EP16885284.6
(31) 17189223		(47) 12.07.2023
(32) 04.09.2017	(73) DTI Group Limited	(87) SE2016050389
(33) European Patent Office (EPO)	(72) ADAMS, Brett	20.07.2017
(51) G06T 7/246	PENG, En	(22) 03.05.2016
(11) EP3811336	LAU, William Hock Oon	(54) A MEASUREMENT CIRCUIT FOR AN X-RAY DETECTOR, AND A CORRESPONDING METHOD AND X-RAY IMAGING SYSTEM
(21) EP19723099.8	(31) 2014903664	(73) Prismatic Sensors AB
(47) 12.07.2023	(32) 15.09.2014	(72) SJÖLIN, Martin
(87) EP2019061926	(33) Australia	(31) 201662278736 P
26.12.2019	(51) G06T 7/62	(32) 14.01.2016
(22) 09.05.2019	G06V 10/56	(33) United States of America
(54) METHOD FOR DETERMINING MUTUALLY CORRESPONDING IMAGE POINTS, SOC FOR PERFORMING THE METHOD, CAMERA SYSTEM HAVING THE SOC, CONTROLLER AND VEHICLE	G06V 20/69	(51) G06T 15/80
	G06V 10/50	G06T 1/20
(73) Robert Bosch GmbH	(11) EP3532985	G06T 15/50
(72) SIMON, Stephan	(21) EP17809078.3	G06T 7/55
(31) 102018209898	(47) 12.07.2023	G06T 17/20
(32) 19.06.2018	(87) US2017058838	(11) EP3664039
(33) Germany	03.05.2018	(21) EP19813220.1
(51) G06T 7/246	(22) 27.10.2017	(47) 12.07.2023
G06T 7/579	(54) SUBSTANCE PREPARATION EVALUATION SYSTEM	(87) KR2019013099
(11) EP3980968	(73) Beckman Coulter, Inc.	16.04.2020
(21) EP20731789.2	(72) DEWITT, Arthur, Conan	(22) 07.10.2019
(47) 12.07.2023	NAZEMI, Leila	(54) METHOD FOR ACQUIRING THREE-DIMENSIONAL OBJECT BY USING ARTIFICIAL LIGHTING PHOTOGRAPH AND DEVICE THEREOF
(87) DE2020200040	WILLETTE, Marie	(73) Korea Advanced Institute of Science and Technology
10.12.2020	BUSACKER, Rebecca	(72) KIM, Min Hyuk
(22) 28.05.2020	UMEBARA, Kazuki	NAM, Giljoo
(54) DETECTION, 3D RECONSTRUCTION AND TRACKING OF MULTIPLE RIGID OBJECTS MOVING IN RELATION TO ONE ANOTHER	BARNABEL, Matt	(31) 20190120410
	SEO, Katsuhiko	20180173852
(73) Continental Autonomous Mobility Germany GmbH	FUJII, Shigeru	20180119872
(72) ROTH, Axel	MIZUTANI, Takayuki	(32) 30.09.2019
(31) 102019208216	YANCEY, Stephanie	31.12.2018
(32) 05.06.2019	(31) 201762525948 P	08.10.2018
(33) Germany	201662414655 P	(33) Korea (Republic)
(51) G06T 7/33	(32) 28.06.2017	Korea (Republic)
A61B 34/20	28.10.2016	Korea (Republic)
A61B 90/00	(33) United States of America	(51) G06T 19/00
(11) EP3547258	United States of America	G06F 3/0346
(21) EP19166253.5	(51) G06T 7/73	G06T 7/73
(47) 12.07.2023	G16H 30/20	G06T 15/00
(22) 29.03.2019	G16H 30/40	(11) EP3977416
(54) DEFORMATION CORRECTION	G16H 40/63	(21) EP20728687.3
(73) CYDAR LIMITED	A61B 8/08	(47) 12.07.2023
(72) Varnavas, Andreas	A61B 8/14	(87) EP2020063712
Penney, Graeme	A61B 5/107	03.12.2020
Carrell, Tom	A61B 8/00	(22) 15.05.2020
(31) 201805299	G06T 7/00	(54) VISUALISATION ASSEMBLY
(32) 29.03.2018	G16H 50/20	(73) Hoch, Alexander
(33) United Kingdom	(11) EP3975865	(72) Hoch, Alexander
(51) G06T 7/60	(21) EP20728751.7	(31) 102019114495
B60M 1/12	(47) 12.07.2023	(32) 29.05.2019
B60L 3/12	(87) EP2020064714	(33) Germany
G06T 7/00	03.12.2020	(51) G06V 10/26
G06V 10/44	(22) 27.05.2020	G06V 10/56
G06V 20/10	(54) GUIDED ULTRASOUND IMAGING	G06V 10/77
B60M 1/28	(73) Koninklijke Philips N.V.	G06V 10/772
(11) EP3195261	(72) ZONG, Richard	G06V 10/98
(21) EP15842084.4	HARRISON, Gerard, Joseph	G06V 20/69
(47) 12.07.2023	HOLMES, Anne, Woodside	G06F 18/2134
(87) AU2015050545	CANFIELD, Earl, M.	(11) EP3391288
24.03.2016	(31) 201962855453 P	(21) EP16819508.9
(22) 15.09.2015	(32) 31.05.2019	(47) 12.07.2023
	(33) United States of America	
	(51) G06T 11/00	
	G01T 1/24	
	A61B 6/00	
	G01T 1/17	
	(11) EP3403239	

(87) EP2016081329 22.06.2017	(11) EP3867804	02.05.2016
(22) 16.12.2016	(21) EP19801959.8	31.01.2016
(54) SYSTEMS AND METHODS OF UNMIXING IMAGES WITH VARYING ACQUISITION PROPERTIES	(47) 12.07.2023	20.06.2016
(73) Ventana Medical Systems, Inc.	(87) FR2019052359	(33) United States of America
(72) MARTIN, Jim F.	23.04.2020	United States of America
BREDNO, Joerg	(22) 04.10.2019	United States of America
(31) 201562269767 P	(54) METHOD FOR DETERMINING A CURRENT VALUE OF AN OCCUPANCY	World Intellectual Property Office (WIPO)
(32) 18.12.2015	PARAMETER RELATING TO A	(51) G06V 40/13
(33) United States of America	PORTION OF A SPACE LOCATED IN THE VICINITY OF A MOTOR-DRIVEN LAND VEHICLE	(11) EP3742334
(51) G06V 10/44	(73) PSA Automobiles SA	(21) EP19888254.0
G06V 10/82	(72) VANPOPERINGHE, Elodie	(47) 12.07.2023
G06V 10/764	GALERON, Patrice	(87) CN2019110933
G06N 3/045	CHAMBRIN, Loic	15.10.2020
(11) EP3329424	RIZZO, Audrey	(22) 14.10.2019
(21) EP15899239.6	DUESO, Damien	(54) OPTICAL FINGERPRINT APPARATUS AND ELECTRONIC DEVICE
(47) 12.07.2023	(31) 1871241	(73) Shenzhen Goodix Technology Co., Ltd.
(87) CN2015085386	(32) 19.10.2018	(72) LI, Dan
02.02.2017	(33) France	ZHANG, Jianxiang
(22) 29.07.2015	(51) G06V 20/58	WU, Baoquan
(54) OBJECT DETECTION WITH NEURAL NETWORK	G06T 7/246	(31) 201920483758 U
(73) Nokia Technologies Oy	(11) EP3866065	(32) 10.04.2019
(72) JIANG, Xiaoheng	(21) EP21156512.2	(33) China
(51) G06V 10/764	(47) 12.07.2023	(51) G06V 40/16
G06V 10/82	(22) 11.02.2021	G06V 40/60
G06V 40/16	(54) TARGET DETECTION METHOD, DEVICE AND STORAGE MEDIUM	G06V 40/70
G06N 3/08	(73) Apollo Intelligent Connectivity (Beijing) Technology Co., Ltd.	G06F 16/51
G06N 3/045	(72) YANG, Fan	G06F 16/58
(11) EP3633552	SUN, Yongyi	G06F 16/583
(21) EP19306258.5	ZHU, Xiaoxing	G06Q 50/26
(47) 12.07.2023	WANG, Chengfa	H04W 4/02
(22) 02.10.2019	(31) 202010090507	(11) EP3350748
(54) METHODS FOR LEARNING OF PARAMETERS OF A CONVOLUTIONAL NEURAL NETWORK, AND DETECTION OF ELEMENTS OF INTEREST VISIBLE IN AN IMAGE	(32) 13.02.2020	(21) EP16837792.7
(73) Idemia Identity & Security France	(33) China	(47) 12.07.2023
(72) CSILLAG, Dora	(51) G06V 40/13	(87) US2016047440
THIEBAUT, Maxime	(11) EP3401837	23.02.2017
JOURDAS, Cécile	(21) EP18170809.0	(22) 17.08.2016
(31) 1859175	(47) 12.07.2023	(54) SYSTEMS FOR PROVIDING ONLINE MONITORING OF RELEASED CRIMINALS BY LAW ENFORCEMENT
(32) 03.10.2018	(22) 04.05.2018	(73) Verie, LLC
(33) France	(54) DEVICE FOR CAPTURING FINGERPRINTS	Nigam, Hemanshu
(51) G06V 20/20	(73) Idemia Identity & Security France	Drolshagen, James
(11) EP3549126	(72) TROUBOUL, Laurent	(72) DROLSHAGEN, James
(21) EP17875636.7	(31) 1754070	NIGAM, Hemanshu
(47) 12.07.2023	(32) 10.05.2017	(31) 201662330846 P
(87) US2017063226	(33) France	201562205824 P
07.06.2018	(51) G06V 40/13	(32) 03.05.2016
(22) 27.11.2017	(11) EP3254235	17.08.2015
(54) SERVICE CONTROL AND USER IDENTITY AUTHENTICATION BASED ON VIRTUAL REALITY	(21) EP17743741.5	(33) United States of America
(73) Advanced New Technologies Co., Ltd.	(47) 12.07.2023	United States of America
(72) YIN, Huanmi	(87) CN2017072575	(51) G06V 40/20
WU, Jun	03.08.2017	G06V 10/25
LIN, Feng	(22) 25.01.2017	G06V 20/40
(31) 201611079020	(54) UNDER-SCREEN OPTICAL SENSOR MODULE FOR ON-SCREEN FINGERPRINT SENSING	G06V 20/59
201715819041	(73) Shenzhen Goodix Technology Co., Ltd.	G06V 40/10
(32) 29.11.2016	(72) HE, Yi	(11) EP3732617
21.11.2017	PI, Bo	(21) EP18899053.5
(33) China	(31) 201662347073 P	(47) 12.07.2023
United States of America	201662330833 P	(87) CN2018120397
(51) G06V 20/58	201662289328 P	18.07.2019
	PCT/US2016/038445	(22) 11.12.2018
	(32) 07.06.2016	(54) ACTIVITY RECOGNITION METHOD USING VIDEOTUBES
		(73) HUawei TECHNOLOGIES CO., LTD.
		(72) BILL, Luis
		XU, Qijie
		PORIKLI, Fatih

HUANG, Wei	BANKNOTE HANDLING AND STORING MACHINE	03.12.2020
(31) 201815867932		(22) 20.05.2020
(32) 11.01.2018	(73) CIMA S.p.A.	(54) A COMPUTER-IMPLEMENTED METHOD FOR ESTIMATING MOVEMENTS OF A CROWD BETWEEN AREAS
(33) United States of America	(72) RAZZABONI, Nicoletta	
(51) G07B 15/02	RAZZABONI, Vittorio	
G08G 1/01	(31) 201900006048	(73) Universiteit Antwerpen
G08G 1/017	(32) 18.04.2019	Imec VZW
G08G 1/14	(33) Italy	(72) DENIS, Stijn
(11) EP3792880	(51) G07D 11/225	BERKVEN, Rafael
(21) EP20203187.8	(11) EP3852073	WEYN, Maarten
(47) 12.07.2023	(21) EP20152357.8	BELLEKENS, Ben
(22) 30.11.2016	(47) 12.07.2023	(31) 19176519
(54) PEER-TO-PEER VIRTUAL CHALKING	(22) 17.01.2020	(32) 24.05.2019
(73) Genetec Inc.	(54) DEVICE FOR SECURING ACCESS TO AN ASSEMBLY OF A DEVICE FOR HANDLING BANKNOTES	(33) European Patent Office (EPO)
(72) COMMEYNE, Christophe	(73) Diebold Nixdorf Systems GmbH	(51) G08B 17/103
LAMBERT, Jean	(72) Carozzi, Andrea	G08B 17/10
YIGIT, Chris	(51) G07F 17/00	(11) EP3712868
AUBLET, Yannick	G07F 13/10	(21) EP20164208.9
NADEAU, Mathieu	G07F 13/06	(47) 12.07.2023
BROUSSEAU, Guy	(11) EP3872776	(22) 19.03.2020
(31) 201562261432 P	(21) EP20382136.8	(54) CHAMBERLESS WIDE AREA DUCT SMOKE DETECTOR
(32) 01.12.2015	(47) 12.07.2023	(73) Carrier Corporation
(33) United States of America	(22) 26.02.2020	(72) BIRNKRANT, Michael J
(51) G07C 5/00	(54) DEVICE AND METHOD FOR DISPENSING HOT AND COLD LIQUID PRODUCTS IN A DISPENSING MACHINE	DISHNICA, Devis
H04L 9/40	(73) Juan y Juan Industrial, S.L. Unipersonal	GORSKI, Michael T
H04W 12/069	(72) JUAN FERNÁNDEZ, Rafael	WOLF, Rick
(11) EP3300406	(51) G07F 17/42	CULP, Slade R
(21) EP17192965.6	G06Q 20/04	LINCOLN, David L
(47) 12.07.2023	G07F 11/04	VIDULICH, Joseph Anthony
(22) 25.09.2017	G07F 17/32	PIECH, Marcin
(54) ESTABLISHMENT OF A CONNECTION BETWEEN A MOBILE DEVICE AND A TELEMATICS UNIT OF A COMMERCIAL VEHICLE	G07C 15/00	AARON, Kyle
(73) Schmitz Cargobull AG	G07F 11/00	(31) 201962821128 P
(72) Schulte, Nils	G07F 11/16	(32) 20.03.2019
(31) 102016118114	(11) EP3915097	(33) United States of America
(32) 26.09.2016	(21) EP20702917.4	(51) G08B 17/113
(33) Germany	(47) 12.07.2023	(11) EP3514774
(51) G07C 9/00	(87) IB2020050402	(21) EP17850699.4
(11) EP3568838	30.07.2020	(47) 12.07.2023
(21) EP18700550.9	(22) 20.01.2020	(87) JP2017031291
(47) 12.07.2023	(54) METHOD, MODULE AND APPARATUS FOR DISPENSING LOTTERY TICKETS	22.03.2018
(87) EP2018050484	(73) Sadamel SA	(22) 31.08.2017
19.07.2018	(72) CLAUDE, Fabien	(54) FIRE DETECTOR BASE AND FIRE DETECTOR
(22) 09.01.2018	SOMMER, Fabian	(73) Panasonic Intellectual Property Management Co., Ltd.
(54) RADIO REMOTE CONTROL SYSTEM FOR AUTOMATIC BUILDING CLOSURES AND THEIR ACTUATORS, AUTOMATIC BUILDING CLOSURE SYSTEM AND OPERATING PROCESS	(31) 662019	(72) KUMAGAI, Issei
(73) Hörmann KG Antriebstechnik	(32) 21.01.2019	YOKOTA, Hiroshi
(72) KESTING, Marcus	(33) Switzerland	(31) 2016182336
ALBRECHT, Robert	(51) G07F 19/00	(32) 16.09.2016
(31) 102017100585	C23C 14/56	(33) Japan
(32) 13.01.2017	(11) EP3361457	(51) G08B 21/24
(33) Germany	(21) EP17155853.9	G08B 21/02
(51) G07D 11/12	(47) 12.07.2023	G08B 21/22
G07D 11/125	(22) 13.02.2017	(11) EP3956873
G07D 11/225	(54) INPUT MEANS, CASH MASCHINE AND METHOD	(21) EP20727701.3
G07D 11/14	(73) Diebold Nixdorf Systems GmbH	(47) 12.07.2023
(11) EP3726487	(72) DIETZ, Oliver	(87) IB2020053730
(21) EP20169663.0	(51) G08B 13/24	22.10.2020
(47) 12.07.2023	(11) EP3977425	(22) 20.04.2020
(22) 15.04.2020	(21) EP20725730.4	(54) MONITORING AND SIGNALING SYSTEM AND RELATED METHOD TO PREVENT THE ABANDONMENT OF INFANTS AND/OR PETS IN VEHICLES
(54) SYSTEM FOR THE SAFE COUPLING OF A RE-USABLE BAG TO A	(47) 12.07.2023	(73) Aubergine Factory S.r.l.
	(87) EP2020064098	(72) POZZINI, Oscar
		(31) 201900006092

(32) 18.04.2019	(72) KIM, Han Soo	(47) 12.07.2023
(33) Italy	AHN, Tae Hyo	(22) 21.05.2020
(51) G08B 25/08	AHN, Hyun Kwon	(54) COMPENSATING A DATA HANDLING
G08B 29/04	(31) 20170126337	DELAY IN V2I2V COMMUNICATION
G08B 29/14	(32) 28.09.2017	(73) Deutsche Telekom AG
H04M 11/04	(33) Korea (Republic)	(72) SCHNIEDERS, Dominik
(11) EP3503059	(51) G08G 1/01	(51) G08G 1/0967
(21) EP17382882.3	B60W 30/00	G01S 5/00
(47) 12.07.2023	B60W 50/00	G01S 5/02
(22) 21.12.2017	G05D 1/02	(11) EP3629312
(54) INTEGRATED VOICE OVER IP	G08G 1/04	(21) EP19198662.9
COMMUNICATION IN FIRE SYSTEMS	G08G 1/0967	(47) 12.07.2023
(73) Autronica Fire & Security AS	H04W 4/02	(22) 20.09.2019
(72) RUBIO CORREDERA, Carlos	(11) EP3726494	(54) VEHICLE GUIDANCE DEVICE
(51) G08B 29/04	(21) EP20170102.6	POSITION DETERMINING SYSTEM
(11) EP3428897	(47) 12.07.2023	(73) CM1 GmbH
(21) EP18183153.8	(22) 17.04.2020	(72) Falkner, Max-David
(47) 12.07.2023	(54) METHOD FOR ASSISTING WITH THE	Häupl, Markus
(22) 12.07.2018	DRIVING OF VEHICLES, ASSOCIATED	Kaluza, Sebastian
(52) OPTICAL FLAME DETECTOR	COMPUTER PROGRAM AND SYSTEM	(31) 102018007632
(73) Honeywell International Inc.	(73) TRANSDEV GROUP INNOVATION	(32) 26.09.2018
(72) BARCELOS, Nathaniel Paul	(72) KARAOGUZ, Cem	(33) Germany
(31) 201715647730	(31) 1904167	(51) G08G 1/14
(32) 12.07.2017	(32) 18.04.2019	G08G 1/01
(33) United States of America	(33) France	(11) EP3482384
(51) G08C 15/00	(51) G08G 1/09	(21) EP17723341.8
B65G 61/00	G08G 1/0962	(47) 12.07.2023
G06Q 10/08	G08G 1/0968	(87) EP2017061207
G06Q 30/02	B60W 60/00	11.01.2018
G06Q 30/06	(11) EP3729400	(22) 10.05.2017
G06Q 50/28	(21) EP18891148.1	(54) DETERMINING LATERALLY
H04B 7/15	(47) 12.07.2023	POSITIONED PARKING SPACES
H04W 4/38	(87) IB2018050271	(73) Robert Bosch GmbH
H04Q 9/00	27.06.2019	(72) MAYER, Philipp
(11) EP3598407	(22) 16.01.2018	(31) 102016212505
(21) EP18767669.7	(54) METHOD AND SYSTEM FOR	(32) 08.07.2016
(47) 12.07.2023	AUGMENTED ALERTING BASED ON	(33) Germany
(87) JP2018010617	DRIVER'S STATE IN HYBRID DRIVING	(51) G08G 1/16
20.09.2018	(73) PlusAI, Inc.	B60W 50/14
(22) 16.03.2018	(72) LIU, David Wanqian	G08G 1/01
(54) SYSTEM	ZHENG, Hao	B60W 30/095
(73) Softbank Corp.	DALY, JR., Timothy Patrick	B60W 30/18
(72) MIYASHITA, Masayuki	(31) 201715846998	(11) EP4002325
MIKAMI, Manabu	(32) 19.12.2017	(21) EP21208304.2
YOSHINO, Hitoshi	(33) United States of America	(47) 12.07.2023
TOMIMOTO, Kazuma	(51) G08G 1/095	(22) 15.11.2021
YAMAGUCHI, Ryo	E01F 9/30	(54) SYSTEM FOR CONTROLLING
(31) 2017079019	G08G 1/052	VEHICLE DRIVING THROUGH
2017079013	G08G 1/01	ROUNDAABOUT AND METHOD OF
2017051363	G06V 20/54	CONTROLLING THE SAME
(32) 12.04.2017	(11) EP3239952	(73) Hyundai Mobis Co., Ltd.
12.04.2017	(21) EP17168372.5	(72) CHO, Chang Ho
16.03.2017	(47) 12.07.2023	(31) 20200156721
(33) Japan	(22) 27.04.2017	(32) 20.11.2020
Japan	(54) SPEED DISPLAY DEVICE	(33) Korea (Republic)
Japan	(73) Bremicker Verkehrstechnik GmbH & Co.	(51) G08G 5/00
(51) G08C 19/02	KG	G01C 23/00
G01R 22/06	(72) Dopfer, Herbert	(11) EP3407332
G08C 17/02	(31) 202016102230 U	(21) EP18173394.0
H04Q 9/00	(32) 27.04.2016	(47) 12.07.2023
(11) EP3971854	(33) Germany	(22) 21.05.2018
(21) EP21204812.8	(51) G08G 1/0967	(54) SYSTEM AND METHOD FOR
(47) 12.07.2023	B60W 30/18	DETERMINING UNCERTAINTY IN A
(22) 27.09.2018	H04W 4/44	PREDICTED FLIGHT PATH FOR AN
(54) METHODS FOR METERING	G08G 1/01	AERIAL VEHICLE
ELECTRICAL QUANTITIES BY USING	G08G 1/16	(73) GE Aviation Systems LLC
AN INTERNET OF THINGS.	(11) EP3913939	(72) HOCHWARTH, Joachim Karl Ulf
(73) Starkoff Co., Ltd.	(21) EP20175938.8	BORGYOS, Szabolcs Andras

(31) 201715605008	SUN, Junmin	(21) EP20198144.6
(32) 25.05.2017	WANG, Zifeng	(47) 12.07.2023
(33) United States of America	(31) 201711046172	(22) 24.09.2020
(51) G09B 9/54	(32) 31.10.2017	(54) DISPLAY DEVICE AND METHOD FOR
G06N 3/08	(33) China	DRIVING THE SAME
(11) EP3745383	(51) G09G 3/20	(73) LG Display Co., Ltd.
(21) EP19176838.1	(11) EP3420551	(72) HONG, MookYoung
(47) 12.07.2023	(21) EP17728313.2	CHOI, SoekMin
(22) 27.05.2019	(47) 12.07.2023	SEONG, NakJin
(54) METHOD AND SYSTEM FOR	(87) US2017033344	(31) 20190122498
GENERATING RADAR REFLECTION	04.01.2018	(32) 02.10.2019
POINTS	(22) 18.05.2017	(33) Korea (Republic)
(73) Robert Bosch GmbH	(54) SYSTEM AND METHOD FOR	(51) G10D 9/02
(72) Yang, Chun	VARIABLE FRAME DURATION	G10D 7/06
Anka, Laszlo	CONTROL IN AN ELECTRONIC	(11) EP3559938
Timm, Fabian	DISPLAY	(21) EP17837942.6
Ebert, Jasmin	(73) Apple Inc.	(47) 12.07.2023
Muenzner, Sebastian	(72) CHEN, Wei	(87) DE2017101092
Karasz, Zoltan	SACCHETTO, Paolo	28.06.2018
(51) G09F 5/04	YEH, Chih-Wei	(22) 20.12.2017
(11) EP4022594	WANG, Chaohao	(54) LIGATURE FOR WOODWIND
(21) EP19762137.8	(31) 201615275375	INSTRUMENTS
(47) 12.07.2023	201662356346 P	(73) Lauermann, Walter
(87) EP2019073220	(32) 24.09.2016	(72) Lauermann, Walter
04.03.2021	29.06.2016	(31) 202017106663 U
(22) 30.08.2019	(33) United States of America	102016125328
(54) SAMPLE FAN DECK	United States of America	(32) 03.11.2017
(73) Kaindl Marken GmbH	(51) G09G 3/20	22.12.2016
(72) DÜRNBERGER, Gerhard	G09G 3/30	(33) Germany
(51) G09F 9/00	G09G 3/3216	Germany
C08F 2/44	(11) EP3549124	(51) G10H 1/047
C08L 33/04	(21) EP16819342.3	G10H 1/32
G02F 1/1335	(47) 12.07.2023	H04R 1/28
C09J 133/06	(87) FR2016053165	(11) EP3876227
C09J 109/00	07.06.2018	(21) EP21159410.6
(11) EP3486891	(22) 01.12.2016	(47) 12.07.2023
(21) EP18210664.1	(54) ADDRESSING MODE AND PRINCIPLE	(22) 25.02.2021
(47) 12.07.2023	OF CONSTRUCTION OF MATRIX	(54) ELECTRONIC WIND INSTRUMENT
(22) 09.04.2008	SCREENS FOR DISPLAYING COLOUR	(73) Yamaha Corporation
(54) RESIN COMPOSITION AND IMAGE	IMAGES WITH QUASI-STATIC	(72) TABATA, Ryo
DISPLAY APPARATUS	BEHAVIOUR	MIYAZAKI, Hiroshi
(73) Dexerials Corporation	(73) LRX Investissement	KASHIWASE, Kazuki
(72) Kamata, Yusuke	(72) LEROUX, Thierry	(31) 2020034814
Shinya, Yoshihisa	(51) G09G 3/20	(32) 02.03.2020
(31) 2008005027	G09G 5/00	(33) Japan
2007186360	(11) EP3254275	(51) G10K 9/12
2007102251	(21) EP16747283.6	G01V 1/155
(32) 11.01.2008	(47) 12.07.2023	H01F 7/08
17.07.2007	(87) US2016016598	G01V 1/38
09.04.2007	11.08.2016	G01V 1/02
(33) Japan	(22) 04.02.2016	H01F 7/16
Japan	(54) ELECTRO-OPTIC DISPLAYS	H01F 7/02
Japan	DISPLAYING IN DARK MODE AND	H01F 7/06
(51) G09G 3/00	LIGHT MODE, AND RELATED	(11) EP3815079
G02B 7/182	APPARATUS AND METHODS	(21) EP19800084.6
G02F 1/13357	(73) E Ink Corporation	(47) 12.07.2023
(11) EP3706103	(72) EMELIE, Pierre-Yves	(87) IB2019053564
(21) EP18869458.2	CROUNSE, Kenneth R.	14.11.2019
(47) 12.07.2023	SIM, Teck Ping	(22) 01.05.2019
(87) CN2018111223	BEN-DOV, Yuval	(54) UNDERWATER ACOUSTIC SOURCE
09.05.2019	(31) 201562184076 P	AND ACTUATOR
(22) 22.10.2018	201562112060 P	(73) Geospectrum Technologies Inc.
(54) FIXING STRUCTURE FOR FIXING	(32) 24.06.2015	(72) NAMS, Janis
REFLECTIVE SHEET AND DISPLAY	04.02.2015	ARMSTRONG, Bruce A.
BRIGHTNESS DETECTION DEVICE	(33) United States of America	JEFFERSON, Robert
(73) BOE Technology Group Co., Ltd.	United States of America	NAMS, Dainis
(72) CAO, Lei	(51) G09G 3/3233	(31) 201815976088
REN, Yan	(11) EP3800629	(32) 10.05.2018



(33) United States of America	(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.	G11C 7/10
(51) G10K 11/178	(72) Robilliard, Julien	H04L 25/03
F03D 7/02	Rettelbach, Nikolaus	G11C 27/02
(11) EP3812575	Helmrich, Christian	(11) EP3929926
(21) EP19204869.2	Neusinger, Matthias	(21) EP20913847.8
(47) 12.07.2023	Hilpert, Johannes	(47) 12.07.2023
(22) 23.10.2019	Disch, Sascha	(87) CN2020103356
(54) ROTOR BLADE WITH NOISE REDUCTION MEANS	Edler, Bernd	22.07.2021
(73) Siemens Gamesa Renewable Energy A/S	(31) 32368310 P	(22) 21.07.2020
Siemens Gamesa Renewable Energy GmbH & Co. KG	(32) 13.04.2010	(54) DATA SAMPLING CIRCUIT AND DATA SAMPLING DEVICE
(72) BUCK, Steven	(33) United States of America	(73) Changxin Memory Technologies, Inc.
OERLEMANS, Stefan	(51) G10L 19/018	(72) HU, Jianfei
JOSEPH, Philip	G10L 19/002	(31) 202020081575 U
(51) G10L 15/08	G10L 19/008	202010037846
(11) EP3790001	(11) EP3869507	(32) 14.01.2020
(21) EP20151035.1	(21) EP21156162.6	14.01.2020
(47) 12.07.2023	(47) 12.07.2023	(33) China
(22) 09.01.2020	(22) 10.02.2021	China
(54) SPEECH INFORMATION PROCESSING METHOD, DEVICE AND STORAGE MEDIUM	(54) EMBEDDING OF SPATIAL METADATA IN AUDIO SIGNALS	(51) G11C 7/10
(73) Beijing Xiaomi Mobile Software Co., Ltd.	(73) Nokia Technologies Oy	G11C 7/22
(72) WANG, Hongyu	(72) LEPPÄNEN, Jussi Artturi	G11C 11/4093
NIU, Yi	HEIKKINEN, Mikko Olavi	(11) EP3714457
WU, Xuefang	LEHTINIEMI, Arto Juhani	(21) EP18881285.3
(31) 201910848567	ERONEN, Antti Johannes	(47) 12.07.2023
(32) 09.09.2019	(31) 20205166	(87) US2018044436
(33) China	(32) 18.02.2020	31.05.2019
(51) G10L 15/22	(33) Finland	(22) 30.07.2018
G10L 15/32	(51) G10L 19/03	(54) METHODS FOR ON-DIE MEMORY TERMINATION AND MEMORY DEVICES AND SYSTEMS EMPLOYING THE SAME
(11) EP4004907	G10L 21/0232	(73) Micron Technology, Inc.
(21) EP20757124.1	G10L 19/12	(72) PRATHER, Matthew A.
(47) 12.07.2023	G10L 19/26	KINSLEY, Thomas H.
(87) US2020044114	G10L 21/0208	STAVE, Eric J.
04.02.2021	G10L 25/78	(31) 201816015042
(22) 29.07.2020	G10L 25/93	201762590116 P
(54) MULTI-DEVICE WAKEWORD DETECTION	G10L 25/21	(32) 21.06.2018
(73) Dolby Laboratories Licensing Corporation	(11) EP3848929	22.11.2017
(72) THOMAS, Mark R. P.	(21) EP21160367.5	(33) United States of America
CARTWRIGHT, Richard J.	(47) 12.07.2023	United States of America
(31) 202062964018 P	(22) 09.01.2014	(51) G11C 8/08
201962880112 P	(54) DEVICE AND METHOD FOR REDUCING QUANTIZATION NOISE IN A TIME-DOMAIN DECODER	H03K 3/03
(32) 21.01.2020	(73) VoiceAge EVS LLC	(11) EP3933838
30.07.2019	(72) JELINEK, Milan	(21) EP19940798.2
(33) United States of America	VAILLANCOURT, Tommy	(47) 12.07.2023
United States of America	(31) 201361772037 P	(87) CN2019126394
(51) G10L 19/00	(32) 04.03.2013	11.02.2021
G10L 19/06	(33) United States of America	(22) 18.12.2019
G10L 19/008	(51) G10L 19/087	(54) WORD LINE DRIVE CIRCUIT AND STORAGE UNIT
H04N 19/50	G10L 19/06	(73) Changxin Memory Technologies, Inc.
H04N 19/105	G10L 19/07	(72) LIU, ChihCheng
H04N 19/156	(11) EP3621074	(31) 201910720182
H04N 19/70	(21) EP19204786.8	(32) 06.08.2019
H04N 19/146	(47) 12.07.2023	(33) China
H04N 19/154	(22) 15.01.2015	(51) G11C 11/16
(11) EP3779975	(54) WEIGHT FUNCTION DETERMINATION DEVICE AND METHOD FOR QUANTIZING LINEAR PREDICTION CODING COEFFICIENT	G11C 13/00
(21) EP20199082.7	(73) Samsung Electronics Co., Ltd.	(11) EP3767626
(47) 12.07.2023	(72) OH, Eun-mi	(21) EP19196313.1
(22) 17.02.2011	SUNG, Ho Sang	(47) 12.07.2023
(54) AUDIO DECODER AND RELATED METHODS FOR PROCESSING MULTI-CHANNEL AUDIO SIGNALS USING A VARIABLE PREDICTION DIRECTION	(31) 20140005318	(22) 10.09.2019
	(32) 15.01.2014	(54) LEAKAGE CURRENT COMPENSATION IN CROSSBAR ARRAY
	(33) Korea (Republic)	(73) MACRONIX INTERNATIONAL CO., LTD.
	(51) G11C 7/02	(72) CHOU, Yun Chen
		HO, Hsin-Yi

LIN, Yung Feng	(73) Yangtze Memory Technologies Co., Ltd.	(87) US2020037680
(31) 201916517485	(72) NAGAVARAPU, Venkatagiri	18.02.2021
(32) 19.07.2019	DONG, Zhipeng	(22) 15.06.2020
(33) United States of America	LI, Haibo	(54) MULTIPLEX SIMILARITY SEARCH IN
(51) G11C 11/56	(51) G11C 16/10	DNA DATA STORAGE
G11C 16/34	G11C 16/34	(73) Microsoft Technology Licensing, LLC
(11) EP3853855	(11) EP3891746	(72) STRAUSS, Karin
(21) EP19915722.3	(21) EP19952140.2	CHEN, Yuan-Jyue
(47) 12.07.2023	(47) 12.07.2023	(31) 201916540812
(87) CN2019075549	(87) CN2019118312	(32) 14.08.2019
27.08.2020	20.05.2021	(33) United States of America
(22) 20.02.2019	(22) 14.11.2019	(51) G16B 50/50
(54) METHOD FOR PROGRAMMING	(54) METHOD OF PERFORMING	G16B 30/20
MEMORY SYSTEM	PROGRAMMING OPERATION AND	G06F 21/62
(73) Yangtze Memory Technologies Co., Ltd.	RELATED MEMORY DEVICE	H03M 7/30
(72) MUI, Man Lung	(73) Yangtze Memory Technologies Co., Ltd.	(11) EP3583250
LI, Haibo	(72) ZHAO, Xiangnan	(21) EP17896462.3
(51) G11C 13/00	LI, Shan	(47) 12.07.2023
G11C 11/56	SONG, Yali	(87) US2017066863
G11C 7/10	JIA, Jianquan	23.08.2018
G11C 7/06	JIN, Lei	(22) 15.12.2017
(11) EP3371810	LIU, Hongtao	(54) METHOD AND SYSTEMS FOR THE
(21) EP16862719.8	JIA, Xinlei	EFFICIENT COMPRESSION OF
(47) 12.07.2023	MIN, Yuanyuan	GENOMIC SEQUENCE READS
(87) US2016058714	(51) G16B 40/00	(73) Genomsys SA
11.05.2017	C12M 1/36	(72) ALBERTI, Claudio
(22) 25.10.2016	C12M 1/38	BALUCH, Mohamed, Khoso
(54) METHOD FOR OPERATING A	C12M 1/34	(31) PCT/US2017/041579
MEMORY CELL	(11) EP3979010	PCT/US2017/017842
(73) Micron Technology, Inc.	(21) EP20199899.4	(32) 11.07.2017
(72) TORTORELLI, Innocenzo	(47) 12.07.2023	14.02.2017
TANG, Stephen	(22) 02.10.2020	(33) World Intellectual Property Office (WIPO)
PAPAGIANNI, Christina	(54) MONITORING AND CONTROL OF	World Intellectual Property Office (WIPO)
(31) 201514932746	BIOPROCESSES	(51) G16C 20/20
(32) 04.11.2015	(73) Sartorius Stedim Data Analytics AB	G01N 27/62
(33) United States of America	(72) TRUNFIO, Nicholas	G16C 20/40
(51) G11C 16/08	MCCREADY, Christopher Peter	(11) EP2883175
G11C 16/24	(51) G16B 40/00	(21) EP13705298.1
G11C 16/04	G16B 50/00	(47) 12.07.2023
G11C 11/56	G16B 40/20	(87) US2013023442
G11C 16/34	G16B 50/10	13.02.2014
G11C 16/10	G16B 50/20	(22) 28.01.2013
(11) EP3877978	G16B 50/30	(54) METHODS AND APPARATUS
(21) EP19943718.7	G16H 10/00	FOR IDENTIFICATION OF
(47) 12.07.2023	G16B 99/00	POLYMERIC SPECIES FROM MASS
(87) CN2019102969	(11) EP3404568	SPECTROMETRY OUTPUT
04.03.2021	(21) EP18173025.0	(73) PerkinElmer Health Sciences, Inc.
(22) 28.08.2019	(47) 12.07.2023	(72) RAKOV, Vsevolod, Sergey
(54) METHOD OF PROGRAMMING IN	(22) 17.05.2018	CERDA, Blas
FLASH MEMORY DEVICES	(54) A SYSTEM AND A METHOD FOR	CROWE, Hayley, E.
(73) Yangtze Memory Technologies Co., Ltd.	DISCOVERY OF PREDICTED	(31) 201261696071 P
(72) LI, Shuang	SITE-SPECIFIC PROTEIN	201261681575 P
HOU, Chunyuan	PHOSPHORYLATION CANDIDATES	(32) 31.08.2012
WANG, Yu	(73) FUJITSU LIMITED	09.08.2012
RUAN, Qing	(72) NOVÁČEK, Vit	(33) United States of America
TANG, Qiang	ITSUIHISHI, Yutaka	United States of America
(51) G11C 16/10	VANDEBUSSCHE, Pierre-Yves	(51) G16H 10/40
G11C 16/08	COSTABELLO, Luca	G01N 35/02
G11C 11/56	(31) 17171925	G01N 35/00
G11C 16/34	(32) 19.05.2017	(11) EP3696550
(11) EP3877979	(33) European Patent Office (EPO)	(21) EP19157355.9
(21) EP19950627.0	(51) G16B 50/30	(47) 12.07.2023
(47) 12.07.2023	G16B 40/20	(22) 15.02.2019
(87) CN2019113926	G16B 30/10	(54) METHOD OF OPERATING AN
06.05.2021	G16B 30/20	ANALYTICAL LABORATORY
(22) 29.10.2019	(11) EP4014238	INCLUDING REDETERMINING THE
(54) METHOD OF PROGRAMMING	(21) EP20735780.7	OPTIMAL TRANSPORTATION ROUTE
MEMORY DEVICE	(47) 12.07.2023	(73) F. Hoffmann-La Roche AG

(72) GULIAS, Carlos Fernández SCHOFIELD, Christopher CHOTZIDIS, Angelos ARNOLD, Daniel TAN, Chye Yin Priscilla SMIT, Werner VON HOPFFGARTEN, Moritz RAUSCHER, Florian Reinhard	(54) DATABASE QUERY PROCESSING SYSTEM FOR BLOOD DONATION TRACKING	H02H 3/00 H02H 3/05 H02H 5/04 H02H 3/08
(51) G16H 10/60 G16H 50/20 G16Z 99/00	(73) Fenwal, Inc. (72) MEIXELSPERGER, Dale MICKLES, Kathleen	(11) EP3874528 (21) EP19805834.9 (47) 12.07.2023 (87) US2019058521 07.05.2020
(11) EP3132366 (21) EP15722769.5 (47) 12.07.2023 (87) IB2015052422 22.10.2015 (22) 02.04.2015	(31) 201562205076 P 201562159007 P	(22) 29.10.2019 (54) PASSIVE ELECTRICAL COMPONENT FOR SAFETY SYSTEM SHUTDOWN USING AMPERE'S LAW
(54) CONTROLLING ACTIONS PERFORMED ON DE-IDENTIFIED PATIENT DATA OF A CLOUD BASED CLINICAL DECISION SUPPORT SYSTEM (CDSS)	(32) 14.08.2015 08.05.2015 (33) United States of America United States of America	(73) GE-Hitachi Nuclear Energy Americas LLC (72) WEBBER, David W. PFEFFER, Scott L. LOEWEN, Eric P. STREGE, Seth Ryan Paul PFEFFER, Maria E.
(73) Koninklijke Philips N.V. (72) GROSS, Brian David ELDO, Issac	(51) G16H 40/63 G16H 20/60 A23L 5/00	(31) 201816176687 (32) 31.10.2018 (33) United States of America
(31) 201461980607 P (32) 17.04.2014 (33) United States of America	(11) EP3555781 (21) EP17826185.5 (47) 12.07.2023 (87) EP2017083181 21.06.2018 (22) 15.12.2017 (54) A NUTRITIONAL VALUE PREDICTION SYSTEM AND METHOD	(51) G21K 1/02 G01B 9/02 G01C 19/62 G21K 1/00 H01S 1/06
(51) G16H 20/17 A61B 5/145	(73) Koninklijke Philips N.V. (72) SUN, Wen HUA, Qiao	(11) EP3855455 (21) EP19891725.4 (47) 12.07.2023 (87) JP2019039770 11.06.2020
(11) EP3822979 (21) EP20207445.6 (47) 12.07.2023 (22) 13.11.2020	(31) PCT/CN2016/000684 17161969	(22) 09.10.2019 (54) ATOMIC BEAM COLLIMATION METHOD, ATOMIC BEAM COLLIMATOR, ATOM INTERFEROMETER, AND ATOM GYROSCOPE
(54) ADAPTIVE DURATION OF INSULIN ACTION FOR USE IN INSULIN ON BOARD CALCULATIONS	(32) 15.12.2016 21.03.2017 (33) World Intellectual Property Office (WIPO) European Patent Office (EPO)	(73) Japan Aviation Electronics Industry, Limited TOKYO INSTITUTE OF TECHNOLOGY
(73) Insulet Corporation (72) LEE, Joon Bok CARDINALI, Steven	(51) G21C 9/012 G21C 13/02 G21C 15/12 G21C 15/18 G21D 3/04	(72) INOUE, Ryotaro KOZUMA, Mikio TANAKA, Atsushi HOSOYA, Toshiyuki
(31) 201962934618 P (32) 13.11.2019 (33) United States of America	(11) EP4089690 (21) EP22000130.9 (47) 12.07.2023 (22) 09.05.2022 (54) SECURITY CONTAINER COOLING SYSTEM	(31) 2018229762 (32) 07.12.2018 (33) Japan
(51) G16H 20/40 G16H 40/63 A61M 1/16	(73) Westinghouse Electric Germany GmbH (72) Hartmann, Christoph Kamps, Álvaro Pérez-Salado Ivanov, Vadym Tiurin, Artem Kostov, Emil Zeniuk, Denys	(51) G21K 1/06 (11) EP3905267 (21) EP20172483.8 (47) 12.07.2023 (22) 30.04.2020 (54) METHOD FOR FOCUSING EUV RADIATION
(11) EP4046163 (21) EP20789611.9 (47) 12.07.2023 (87) EP2020078807 22.04.2021 (22) 13.10.2020	(31) 102021002515 (32) 12.05.2021 (33) Germany	(73) Forschungsverbund Berlin e.V. (72) Schütte, Bernd Kornilov, Oleg Vracking, Marc J.J.
(54) DETERMINING INTERNAL FILTRATION RATE WITHIN A CAPILLARY HEMODIALYZER	(51) G21C 13/02 (11) EP3251119 (21) EP15830915.3 (47) 12.07.2023 (87) US2015060144 04.08.2016 (22) 11.11.2015	(51) H01B 1/20 C09D 11/52 (11) EP3282453 (21) EP16183752.1 (47) 12.07.2023 (22) 11.08.2016
(73) Gambro Lundia AB (72) DONATO, Danilo STORR, Markus	(54) CONTAINMENT VESSEL DRAIN SYSTEM	(54) IMPROVED PROCESSING OF POLYMER BASED INKS AND PASTES
(31) 19202905 (32) 14.10.2019 (33) European Patent Office (EPO)	(73) NuScale Power, LLC (72) HARRIS, Scott G. (31) 201514607968 (32) 28.01.2015 (33) United States of America	
(51) G16H 40/20 G16H 10/60	(51) G21D 3/06	
(11) EP3091461 (21) EP16168288.5 (47) 12.07.2023 (22) 04.05.2016		

(73) Henkel AG & Co. KGaA	(47) 12.07.2023	F16D 27/108
(72) GILLISSEN, Stijn	(22) 06.12.2019	H01F 3/10
HENCKENS, Anja	(54) CABLE	(11) EP4080528
VAN DER MEULEN, Inge	(73) Nexans	(21) EP22163438.9
OLDENZIJL, Rudolf Warmold	(72) AHN, Dae-Up	(47) 12.07.2023
DREEZEN, Gunther	BAEK, Mi-Geon	(22) 22.03.2022
(51) H01B 1/22	(31) 20180158305	(54) ELECTROMAGNETIC COUPLING
C09D 7/40	(32) 10.12.2018	DEVICE
(11) EP3229241	(33) Korea (Republic)	(73) Ogura Clutch Co., Ltd.
(21) EP17164699.5	(51) H01F 1/26	(72) HARA, Yukihiko
(47) 12.07.2023	B22F 1/10	FUJISAWA, Yoshinori
(22) 04.04.2017	(11) EP3960801	TAKAHARA, Toshihiro
(54) METAL POWDER SINTERING PASTE	(21) EP20818950.6	OZAKI, Shinya
AND METHOD OF PRODUCING THE	(47) 12.07.2023	(31) 2021059179
SAME, AND METHOD OF PRODUCING	(87) JP2020019981	(32) 31.03.2021
CONDUCTIVE MATERIAL	10.12.2020	(33) Japan
(73) NICHIA CORPORATION	(22) 20.05.2020	(51) H01F 17/00
(72) KUNIMUNE, Teppei	(54) COMPOUND, MOLDED ARTICLE, AND	H01F 17/04
KURAMOTO, Masafumi	CURED PRODUCT	H01F 27/22
(31) 2016075314	(73) Resonac Corporation	H01F 27/29
(32) 04.04.2016	(72) INOUE, Hidetoshi	H01F 27/32
(33) Japan	ENDO, Yoshinori	H01F 1/057
(51) H01B 1/24	ONO, Yuta	H01F 1/33
H01L 21/48	(31) 2019104677	(11) EP3382722
H01L 23/498	(32) 04.06.2019	(21) EP16868846.3
H01L 23/00	(33) Japan	(47) 12.07.2023
H05K 1/09	(51) H01F 3/10	(87) KR2016013441
H05K 1/18	H01F 27/38	01.06.2017
C09D 11/52	H01F 30/14	(22) 22.11.2016
H01B 1/22	H01F 3/14	(54) POWER INDUCTOR
H01R 13/24	H01F 41/02	(73) Moda-Innochips Co., Ltd.
H05K 1/02	H02M 3/00	(72) CHO, Seung Hun
(11) EP3330327	H02M 1/40	NAM, Ki Joung
(21) EP17176974.8	(11) EP3926648	JUNG, Jun Ho
(47) 12.07.2023	(21) EP20382513.8	KIM, Gyeong Tae
(22) 20.06.2017	(47) 12.07.2023	PARK, In Kil
(54) PASTE MATERIAL, WIRING MEMBER	(22) 15.06.2020	(31) 20160151997
FORMED FROM THE PASTE	(54) CORE STRUCTURE FOR MAGNETIC	20150164930
MATERIAL, AND ELECTRONIC DEVICE	COMPONENTS AND CONVERTER	(32) 15.11.2016
INCLUDING THE WIRING MEMBER	THEREWITH	24.11.2015
(73) Samsung Electronics Co., Ltd	(73) SP Control Technologies, S.L.	(33) Korea (Republic)
Foundation Of Soongsil University-	(72) MOLINA, Jose Maria	Korea (Republic)
Industry Cooperation	NICIEZA, Lucas	(51) H01F 27/245
(72) SONG, Byonggwon	LUNA, Marcos	H01F 41/02
YANG, Kiyeon	(51) H01F 7/02	H01F 3/02
CHU, Kunmo	H01F 1/06	(11) EP3738133
PARK, Sunghoon	H01F 1/11	(21) EP19710339.3
LEE, Changseung	H01F 41/02	(47) 12.07.2023
(31) 20160162301	B02C 17/20	(87) EP2019055188
(32) 30.11.2016	(11) EP3857573	06.09.2019
(33) Korea (Republic)	(21) EP19773020.3	(22) 01.03.2019
(51) H01B 3/44	(47) 12.07.2023	(54) CORE FOR A TRANSFORMER
C08L 27/06	(87) EP2019074847	(73) Siemens Energy Global GmbH & Co. KG
C08K 5/00	02.04.2020	(72) VOSS, Stephan
(11) EP4036937	(22) 17.09.2019	(31) 102018203087
(21) EP22153173.4	(54) GRINDING MEDIA, DEVICE AND	(32) 01.03.2018
(47) 12.07.2023	METHOD FOR PRODUCING SAID	(33) Germany
(22) 25.01.2022	GRINDING MEDIA AND USE THEREOF	(51) H01F 27/28
(54) CABLE AND WIRE HARNESS	(73) Halbedel, Bernd	(11) EP3576115
(73) Yazaki Corporation	Baudrich, Rolf	(21) EP19175364.9
(72) Horiuchi, Yuki	May, Mathias	(47) 12.07.2023
(31) 2021010942	(72) Halbedel, Bernd	(22) 20.05.2019
(32) 27.01.2021	May, Mathias	(54) ELECTRONIC COMPONENT
(33) Japan	Baudrich, Rolf	(73) Tamura Corporation
(51) H01B 7/18	(31) 102018216190	(72) YOSHINO, Tomohiko
H01B 11/10	(32) 24.09.2018	OGAWA, Hiroo
(11) EP3667683	(33) Germany	(31) 2018106182
(21) EP19306588.5	(51) H01F 7/16	(32) 01.06.2018

(33) Japan	(87) KR2019013828	FILI, Giovanni
(51) H01F 30/04	30.04.2020	(31) 1950025
H01F 30/06	(22) 21.10.2019	18183590
H01F 27/28	(54) METHOD FOR MANUFACTURING	(32) 10.01.2019
H01F 27/245	SINTERED MAGNET	16.07.2018
(11) EP3193345	(73) LG CHEM, LTD.	(33) Sweden
(21) EP16195663.6	(72) KWON, Soon Jae	European Patent Office (EPO)
(47) 12.07.2023	UH, Hyounsoo	(51) H01H 1/28
(22) 26.10.2016	LEE, Jung Goo	H01H 13/803
(54) MULTI-PULSE ELECTROMAGNETIC	KIM, In Gyu	H01H 13/807
DEVICE INCLUDING A LINEAR	CHOI, Ik Jin	(11) EP3850648
MAGNETIC CORE CONFIGURATION	(31) 20180125899	(21) EP19768759.3
(73) The Boeing Company	(32) 22.10.2018	(47) 12.07.2023
(72) Peck, James L. Jr	(33) Korea (Republic)	(87) EP2019074041
(31) 201614994982	(51) H01F 41/02	19.03.2020
(32) 13.01.2016	H01F 1/057	(22) 10.09.2019
(33) United States of America	(11) EP4020505	(54) KEY MODULE FOR A KEYBOARD,
(51) H01F 38/14	(21) EP21214513.0	KEYBOARD, AND METHOD FOR
H02J 50/12	(47) 12.07.2023	DETECTING THE ACTUATION OF A
H02J 50/70	(22) 14.12.2021	KEY MODULE OF A KEYBOARD
H02J 50/00	(54) PREPARATION METHOD FOR A	(73) Cherry Europe GmbH
H01F 27/02	NEODYMIUM-IRON-BORON MAGNET	(72) RUFF, Eduard
H01F 27/22	(73) Yantai Dongxing Magnetic Materials Inc.	(31) 102019116585
H01F 27/28	(72) Zhang, Qiang	102019108956
H01F 27/36	Xiang, Chunjie	102018122416
H04B 5/00	Zhu, Xiaonan	(32) 19.06.2019
H04B 1/036	Peng, Zhongjie	05.04.2019
H01Q 1/00	Ding, Kaihong	13.09.2018
H02J 50/10	(31) 202011473669	(33) Germany
H02J 7/00	(32) 15.12.2020	Germany
(11) EP3641144	(33) China	Germany
(21) EP18818333.9	(51) H01G 9/00	(51) H01H 9/02
(47) 12.07.2023	H01G 9/145	H01H 9/10
(87) KR2018006760	H01G 9/035	H01H 39/00
20.12.2018	A61N 1/39	H02H 3/08
(22) 15.06.2018	H01G 9/052	H01L 31/042
(54) WIRELESS POWER TRANSMISSION	(11) EP3539139	H01H 85/38
DEVICE FOR VEHICLE	(21) EP17870341.9	H01H 85/02
(73) Amosense Co.,Ltd	(47) 12.07.2023	(11) EP3244429
(72) JANG, Kil Jae	(87) US2017061427	(21) EP17170514.8
(31) 20180067899	17.05.2018	(47) 12.07.2023
20170076538	(22) 14.11.2017	(22) 10.05.2017
(32) 14.06.2018	(54) WET ELECTROLYTIC CAPACITOR FOR	(54) MODULAR PYROTECHNIC CIRCUIT
16.06.2017	AN IMPLANTABLE MEDICAL DEVICE	PROTECTION SYSTEM
(33) Korea (Republic)	(73) KYOCERA AVX Components	(73) Eaton Intelligent Power Limited
Korea (Republic)	Corporation	(72) PETRONI, Vinicius Marcelli
(51) H01F 41/02	(72) PETRZILEK, Jan	VON DER MUEHLEN, Patrick Alexander
(11) EP3828903	MIKHALIN, Ilya	HENRICKS, Michael Craig
(21) EP20206111.5	(31) 201662421434 P	VENTURA, Joseph James
(47) 12.07.2023	(32) 14.11.2016	(31) 201615234196
(22) 06.11.2020	(33) United States of America	201615151680
(54) A METHOD FOR INCREASING THE	(51) H01G 9/20	(32) 11.08.2016
COERCIVITY OF A SINTERED TYPE	H01L 31/02	11.05.2016
NDFEB PERMANENT MAGNET	H02J 7/35	(33) United States of America
(73) Yantai Dongxing Magnetic Materials Inc.	(11) EP3824488	United States of America
(72) Wang, Chuanshen	(21) EP19721313.5	(51) H01H 13/30
Yang, Kunkun	(47) 12.07.2023	H01H 13/52
Peng, Zhongjie	(87) EP2019061728	H01H 13/06
Ding, Kaihong	23.01.2020	(11) EP4014244
Jia, Daoning	(22) 07.05.2019	(21) EP20756848.6
(31) 201911194387	(54) A DYE-SENSITIZED SOLAR CELL	(47) 12.07.2023
(32) 28.11.2019	UNIT, A PHOTOVOLTAIC CHARGER	(87) EP2020072670
(33) China	INCLUDING THE DYE-SENSITIZED	25.02.2021
(51) H01F 41/02	SOLAR CELL UNIT AND A METHOD	(22) 12.08.2020
H01F 1/057	FOR PRODUCING THE SOLAR CELL	(54) ELECTRIC PUSH-BUTTON SWITCH
(11) EP3754676	UNIT	(73) KOSTAL Automobil Elektrik GmbH & Co.
(21) EP19876705.5	(73) Exeger Operations AB	KG
(47) 12.07.2023	(72) LINDSTRÖM, Henrik	(72) LANZON, Kristian

FEHLING, André	H01H 33/14	PISTNER, Jürgen
(31) 102019005800	H01G 5/16	HAGEDORN, Harro
(32) 17.08.2019	H01G 5/40	SCHERER, Michael
(33) Germany	(11) EP3991194	(31) 102011114450
(51) H01H 13/52	(21) EP20728990.1	(32) 28.09.2011
H01H 3/12	(47) 12.07.2023	(33) Germany
(11) EP3489980	(87) EP2020063754	(51) H01L 21/304
(21) EP18204605.2	18.02.2021	B24B 37/24
(47) 12.07.2023	(22) 18.05.2020	B29C 64/112
(22) 06.11.2018	(54) SWITCHING DEVICES COMPRISING	B24D 11/00
(54) PUSH-BUTTON TYPE CONTROL	TWO INTERRUPTER UNITS	(11) EP3207559
DEVICE WITH FLAT ARCHITECTURE	CONNECTED IN SERIES	(21) EP15850855.6
(73) Schneider Electric Industries SAS	(73) Siemens Energy Global GmbH & Co. KG	(47) 12.07.2023
(72) FRUCHARD, Bertrand	(72) NIKOLIC, Paul Gregor	(87) US2015053465
CHAUVET, Francis	KOSSE, Sylvio	21.04.2016
(31) 1761204	GOEBELS, Tobias Alexander	(22) 01.10.2015
(32) 27.11.2017	(31) 102019212106	(54) POLISHING ARTICLES AND SYSTEM
(33) France	(32) 13.08.2019	FOR MANUFACTURING CHEMICAL
(51) H01H 13/85	(33) Germany	MECHANICAL POLISHING ARTICLES
H01H 1/26	(51) H01H 33/662	(73) Applied Materials, Inc.
(11) EP3850649	H02B 13/035	(72) REDFIELD, Daniel
(21) EP19768758.5	(11) EP3707741	BAJAJ, Rajeev
(47) 12.07.2023	(21) EP18815554.3	PATIBANDLA, Nag B.
(87) EP2019074040	(47) 12.07.2023	REDEKER, Fred C.
19.03.2020	(87) EP2018082783	MENK, Gregory E.
(22) 10.09.2019	27.06.2019	ORILALL, Mahendra C.
(54) KEY MODULE FOR A KEYBOARD, AND	(22) 28.11.2018	KRISHNAN, Kasiraman
KEYBOARD	(54) GAS INSULATED SWITCHGEAR	FUNG, Jason G.
(73) Cherry Europe GmbH	WITH A CONTROL ROD WITH	PERRY, Russell Edward
(72) RUFF, Eduard	COMPENSATION ELEMENT	(31) 201462065533 P
(31) 102018122416	(73) Siemens Aktiengesellschaft	(32) 17.10.2014
(32) 13.09.2018	(72) SCHÜMANN, Ulf	(33) United States of America
(33) Germany	(31) 102017223548	(51) H01L 21/56
(51) H01H 13/86	(32) 21.12.2017	H01L 23/66
(11) EP3993003	(33) Germany	H01L 23/495
(21) EP19934819.4	(51) H01H 47/32	H01L 23/31
(47) 12.07.2023	H01H 47/36	H01L 23/16
(87) CN2019093842	H01F 7/18	H01L 23/552
30.12.2020	(11) EP4036950	H01L 25/07
(22) 28.06.2019	(21) EP22153732.7	(11) EP3989268
(54) BUTTON ASSEMBLY AND	(47) 12.07.2023	(21) EP21203562.0
ELECTRONIC DEVICE	(22) 27.01.2022	(47) 12.07.2023
(73) Hytera Communications Corporation	(54) ELECTROMAGNETIC ACTUATOR	(22) 19.10.2021
Limited	AND METHOD OF CONTROLLING AN	(54) METHOD FOR THE FABRICATION
(72) FU, Songlin	ELECTROMAGNETIC ACTUATOR	OF A LEADLESS POWER AMPLIFIER
KONG, Fanlin	(73) Schneider Electric Industries SAS	PACKAGE INCLUDING TOPSIDE
(51) H01H 31/28	(72) LANES, David	TERMINATIONS
H01H 1/42	(31) 2100759	(73) NXP USA, Inc.
H02J 9/06	(32) 27.01.2021	(72) Viswanathan, Lakshminarayan
H01H 1/50	(33) France	Wei, Yun
H01H 1/60	(51) H01J 37/32	Marshall, Scott Duncan
(11) EP3803928	H01J 37/34	Santos, Fernando A.
(21) EP19726420.3	C23C 14/00	(31) 202017077583
(47) 12.07.2023	C23C 14/02	(32) 22.10.2020
(87) EP2019063845	C23C 14/50	(33) United States of America
05.12.2019	C23C 14/56	(51) H01L 21/683
(22) 28.05.2019	C23C 14/52	H01L 21/687
(54) CURRENT SOURCE INVERTER FOR	(11) EP2761643	(11) EP3588543
NUCLEAR POWER FACILITY	(21) EP12772719.6	(21) EP19181781.6
(73) AMC	(47) 12.07.2023	(47) 12.07.2023
(72) PILLET, Michel	(87) EP2012004093	(22) 21.06.2019
(31) 1800523	04.04.2013	(54) PRE-ALIGNER
(32) 28.05.2018	(22) 28.09.2012	(73) Jabil Inc.
(33) France	(54) METHOD AND APPARATUS FOR	(72) Yu, Kwok Kuen
(51) H01H 33/16	PRODUCING A REFLECTION	Naderi, Babak
H01H 33/66	REDUCING LAYER ON A SUBSTRATE	Rahimi, Payman
H01H 33/666	(73) Bühler Alzenau GmbH	Kovatchev, George
	(72) KLOSCH-TRAGESER, Michael	Bosboom, Jeroen

(31) 201816016348	H01L 31/0232	H01L 29/78
(32) 22.06.2018	H01L 31/0352	H01L 29/66
(33) United States of America	H01L 27/146	(11) EP3759741
(51) H01L 21/78	H01L 31/103	(21) EP19710071.2
H01L 21/683	(11) EP3467875	(47) 12.07.2023
(11) EP3579267	(21) EP18206453.5	(87) GB2019050522
(21) EP19174568.6	(47) 12.07.2023	06.09.2019
(47) 12.07.2023	(22) 15.02.2010	(22) 26.02.2019
(22) 15.05.2019	(54) PHOTODIODE ARRAY	(54) SCHOTTKY BARRIER THIN FILM
(54) METHOD FOR MANUFACTURING THIN SUBSTRATE	(73) SiOnyx, LLC	TRANSISTOR AND METHOD
(73) Shin-Etsu Chemical Co., Ltd.	(72) Kawai, Satoshi	(73) Song, Aimin
(72) Tanabe, Masahito	Yamamura, Kazuhisa	(72) WILSON, Joshua
Sugo, Michihiro	Nagano, Terumasa	ZHANG, Jiawei
(31) 2018106775	Sakamoto, Akira	SONG, Aimin
(32) 04.06.2018	Ishikawa, Yoshitaka	(31) 201821078
(33) Japan	(31) 2009136419	201803169
(51) H01L 23/498	2009041078	(32) 21.12.2018
H01L 21/56	(32) 05.06.2009	27.02.2018
(11) EP3783645	24.02.2009	(33) United Kingdom
(21) EP19886596.6	(33) Japan	United Kingdom
(47) 12.07.2023	Japan	(51) H01L 31/02
(87) CN2019086735	(51) H01L 27/146	H02S 40/34
28.05.2020	(11) EP3506356	(11) EP2206159
(22) 14.05.2019	(21) EP17210777.3	(21) EP08845104.2
(54) PIN, PIN COMBINATION STRUCTURE, PACKAGING BODY AND MANUFACTURING METHOD THEREFOR	(47) 12.07.2023	(47) 12.07.2023
(73) Huawei Technologies Co., Ltd.	(22) 28.12.2017	(87) US2008081827
(72) LV, Zhen	(54) METHOD FOR PRODUCING AN IMAGE SENSOR, AND IMAGE SENSOR	07.05.2009
WU, Hong	(73) IMEC vzw	(22) 30.10.2008
(31) 201811376365	(72) ROTTENBERG, Xavier	(54) APPARATUSES AND METHODS TO REDUCE SAFETY RISKS ASSOCIATED WITH PHOTOVOLTAIC SYSTEMS
(32) 19.11.2018	ROCHUS, Veronique	(73) Tigo Energy, Inc.
(33) China	(51) H01L 27/146	(72) KIKINIS, Dan
(51) H01L 23/522	(11) EP3631857	POWELL, Earl G.
H01L 21/768	(21) EP18726241.5	ARDITI, Shmuel
(11) EP3599637	(47) 12.07.2023	HADAR, Ron
(21) EP18184958.9	(87) JP2018017477	(31) 254780
(47) 12.07.2023	29.11.2018	1587 P
(22) 23.07.2018	(22) 02.05.2018	(32) 20.10.2008
(54) A METHOD FOR FORMING A MULTI-LEVEL INTERCONNECT STRUCTURE	(54) IMAGING DEVICE AND ELECTRONIC DEVICE	02.11.2007
(73) IMEC vzw	(73) Sony Semiconductor Solutions Corporation	(33) United States of America
(72) BOEMMELS, Juergen	(72) YAMAGISHI Hajime	United States of America
WILSON, Christopher	KOBAYASHI Yuusaku	(51) H01L 31/032
BRIGGS, Basoene	HIDA Shota	H01L 31/18
(51) H01L 27/144	(31) 2017104991	H01L 21/02
(11) EP3884522	(32) 26.05.2017	H01L 31/062
(21) EP19802143.8	(33) Japan	H01L 31/0392
(47) 12.07.2023	(51) H01L 27/15	(11) EP3221899
(87) EP2019080735	H01L 25/16	(21) EP15797653.1
28.05.2020	H01L 33/62	(47) 12.07.2023
(22) 08.11.2019	(11) EP3888130	(87) EP2015076996
(54) MULTI-JUNCTION PICO-AVALANCHE DETECTOR	(21) EP18927230.5	26.05.2016
(73) Université de Genève	(47) 12.07.2023	(22) 18.11.2015
(72) IACOBUCCI, Giuseppe	(87) CN2018117703	(54) LAYER STRUCTURE FOR A THIN-FILM SOLAR CELL AND PRODUCTION METHOD
VALERIO, Pierpaolo	04.06.2020	(73) Zentrum für Sonnenenergie- und Wasserstoff-Forschung Baden-Württemberg
PAOLOZZI, Lorenzo	(22) 27.11.2018	(72) WÜRZ, Roland
(31) 18207008	(54) METHOD OF FABRICATING MICRO LIGHT EMITTING DIODE ARRAY SUBSTRATE	POWALLA, Michael
(32) 19.11.2018	(73) Hefei Xinsheng Optoelectronics Technology Co., Ltd.	JACKSON, Philip
(33) European Patent Office (EPO)	BOE Technology Group Co., Ltd.	HARISKOS, Dimitrios
(51) H01L 27/144	(72) ZHANG, Xinxia	(31) 102014223485
H01L 31/10	WANG, Guolei	(32) 18.11.2014
H01L 31/0236	Li, Hengbin	(33) Germany
H01L 31/107	CHEN, Peng	(51) H01L 31/048
	(51) H01L 29/786	H01L 31/0216

(11) EP3729516	(22) 22.11.2018	H01M 4/62
(21) EP18825691.1	(54) PLATE, ELECTRODE ASSEMBLY, AND ENERGY STORAGE DEVICE	H01M 10/052
(47) 12.07.2023		H01M 10/0562
(87) EP2018086096	(73) GS Yuasa International Ltd.	(11) EP3745504
27.06.2019	(72) TSUJITA, Kohei	(21) EP18902418.5
(22) 20.12.2018	OSUGI, Yuta	(47) 12.07.2023
(54) SOLAR CELLS	TANABE, Morito	(87) JP2018046261
(73) Merck Patent GmbH	(31) 2017229556	01.08.2019
(72) DELOUX, Laurent	(32) 29.11.2017	(22) 17.12.2018
DOLL, Oliver	(33) Japan	(54) ELECTRODE MATERIAL AND BATTERY
WIERZCHOWIEC, Piotr	(51) H01M 4/13	(73) Panasonic Intellectual Property Management Co., Ltd.
TASCH, Johannes	H01M 4/62	(72) OSHIMA Tatsuya
HUNGER, Marc	H01M 4/139	SASAKI Izuru
PLATZER, Cairon	H01M 10/052	MIYAZAKI Akinobu
BARTH, Sebastian	C08G 77/16	SUGIMOTO Yuta
(31) 17210122	H01M 4/1395	(31) 2018173449
(32) 22.12.2017	H01M 4/134	2018011532
(33) European Patent Office (EPO)	H01M 4/36	2018011531
(51) H01L 31/105	H01M 4/38	2018011524
(11) EP3971995	(11) EP3264500	(32) 18.09.2018
(21) EP21197570.1	(21) EP15910790.3	26.01.2018
(47) 12.07.2023	(47) 12.07.2023	26.01.2018
(22) 17.09.2021	(87) KR2015013882	26.01.2018
(54) PASSIVATED PHOTODIODE COMPRISING A PERIPHERAL FERROELECTRIC PORTION	(22) 17.12.2015	(33) Japan
(73) Commissariat à l'énergie atomique et aux énergies alternatives	(54) LITHIUM SECONDARY BATTERY ANODE AND LITHIUM SECONDARY BATTERY INCLUDING SAME	Japan
(72) KAYA, Hacile	(73) LG Energy Solution, Ltd.	Japan
ALIANE, Abdelkader	(72) KIM, Taek Gyoung	Japan
(31) 2009529	JANG, Min Chul	(51) H01M 4/36
(32) 21.09.2020	SON, Byoung Kuk	H01M 4/38
(33) France	YANG, Doo Kyung	H01M 4/40
(51) H01L 31/107	(51) H01M 4/131	H01M 4/587
H01L 21/3205	H01M 10/0525	H01M 4/62
H01L 21/768	H01M 4/136	H01M 4/66
H01L 23/522	H01M 4/1397	H01M 10/052
H01L 27/146	H01M 4/58	H01M 10/0562
G01S 7/481	H01M 4/1391	(11) EP3869592
G01S 17/89	H01M 4/505	(21) EP21157714.3
(11) EP3930012	H01M 4/525	(47) 12.07.2023
(21) EP20759776.6	H01M 4/02	(22) 17.02.2021
(47) 12.07.2023	H01M 10/052	(54) NEGATIVE ELECTRODE AND SOLID STATE SECONDARY BATTERY INCLUDING THE SAME
(87) JP2020004602	H01M 4/04	(73) Samsung SDI Co., Ltd.
27.08.2020	(11) EP3787071	(72) LEE, Minsuk
(22) 06.02.2020	(21) EP19875359.2	(31) 20200019993
(54) AVALANCHE-PHOTODIODE SENSOR AND DISTANCE MEASUREMENT DEVICE	(47) 12.07.2023	(32) 18.02.2020
(73) Sony Semiconductor Solutions Corporation	(87) CN2019111205	(33) Korea (Republic)
(72) WAKANO, Toshifumi	30.04.2020	(51) H01M 4/36
YAGI, Shinichiro	(22) 15.10.2019	H01M 4/587
(31) 2019029912	(54) POSITIVE ELECTRODE SHEET, MANUFACTURING METHOD THEREFOR, LITHIUM ION SECONDARY BATTERY, BATTERY MODULE, BATTERY PACK, AND DEVICE	H01M 4/133
(32) 21.02.2019	(73) Contemporary Amperex Technology Co., Limited	H01M 10/0525
(33) Japan	(72) GUO, Mingkui	H01M 4/1393
(51) H01M 4/04	WANG, Yaohui	H01M 4/02
H01M 4/62	HUANG, Yaping	(11) EP3783706
H01M 4/13	(31) 201811238060	(21) EP20735950.6
H01M 4/139	(32) 23.10.2018	(47) 12.07.2023
H01M 4/66	(33) China	(87) KR2020000152
H01M 10/05	(51) H01M 4/133	09.07.2020
H01G 11/28	H01B 1/06	(22) 03.01.2020
(11) EP3659194	H01M 4/36	(54) ANODE ACTIVE MATERIAL FOR SECONDARY BATTERY, ELECTRODE COMPRISING SAME, AND METHOD FOR MANUFACTURING SAME
(21) EP18812091.9	H01M 4/587	(73) LG Energy Solution, Ltd.
(47) 12.07.2023		(72) WOO, Sang Wook
(87) EP2018082207		CHOI, Hee Won
06.06.2019		



PIAO, Li Lin	LIN, Yongshou	(33) Japan
KIM, Je Young	XU, Hu	(51) H01M 10/04
(31) 20190000664	REN, Miaomiao	H01M 10/613
(32) 03.01.2019	JIN, Haizu	H01M 50/107
(33) Korea (Republic)	ZHU, Lingbo	H01M 10/625
(51) H01M 4/525	(31) 201910750738	H01M 10/643
H01M 4/505	(32) 14.08.2019	H01M 50/213
H01M 10/44	(33) China	H01M 10/655
H01M 10/052	(51) H01M 4/86	H01M 10/6557
H01M 4/131	H01M 4/88	H01M 50/24
(11) EP3624244	H01M 4/90	H01M 50/50
(21) EP18882719.0	H01M 8/124	H01M 50/249
(47) 12.07.2023	C25B 11/031	B60K 1/04
(87) KR2018014804	C25B 11/051	B60L 50/64
06.06.2019	C25B 11/077	(11) EP3739660
(22) 28.11.2018	C25B 11/091	(21) EP20174185.7
(54) METHOD FOR ACTIVATING A	H01M 8/12	(47) 12.07.2023
BATTERY CELL	(11) EP3697944	(22) 12.05.2020
(73) LG Energy Solution, Ltd.	(21) EP18782877.7	(54) BATTERY MODULE FOR A MOTOR
(72) LEE, Eun Ju	(47) 12.07.2023	VEHICLE
CHOI, Jong Hwan	(87) DE2018000271	(73) VOLKSWAGEN AG
NAM, Ye Jin	25.04.2019	(72) SCHAAR, Dr. Bastian
LEE, Ji Eun	(22) 22.09.2018	WOLFF, Nicolas
(31) 20170163720	(54) FUEL GAS ELECTRODE AND METHOD	(31) 102019207207
(32) 30.11.2017	FOR PRODUCING A FUEL GAS	(32) 17.05.2019
(33) Korea (Republic)	ELECTRODE	(33) Germany
(51) H01M 4/587	(73) Forschungszentrum Jülich GmbH	(51) H01M 10/052
H01M 4/36	(72) GUILLON, Olivier	(11) EP3742522
H01M 4/62	MENZLER, Norbert Heribert	(21) EP18901342.8
H01M 10/0525	FREY, Carolin Elisabeth	(47) 12.07.2023
C01B 32/21	(31) 102017009786	(87) CN2018080679
C01B 32/05	(32) 20.10.2017	25.07.2019
H01M 4/02	(33) Germany	(22) 27.03.2018
(11) EP3799168	(51) H01M 6/32	(54) CONNECTION MEMBER AND
(21) EP20741910.2	H01M 10/36	RECHARGEABLE BATTERY
(47) 12.07.2023	H01M 50/124	(73) Contemporary Amperex Technology Co.,
(87) KR2020000842	H01M 50/121	Limited
23.07.2020	H01M 50/186	(72) GUO, Zhijun
(22) 17.01.2020	(11) EP3411918	ZHENG, Yulian
(54) ANODE ACTIVE MATERIAL FOR	(21) EP17747060.6	XING, Chengyou
SECONDARY BATTERY, ANODE	(47) 12.07.2023	ZHU, Taosheng
COMPRISING SAME, AND METHOD	(87) IB2017000048	WANG, Peng
FOR MANUFACTURING SAME	10.08.2017	(31) 201820067943 U
(73) LG Energy Solution, Ltd.	(22) 30.01.2017	(32) 16.01.2018
(72) PIAO, Li Lin	(54) BATTERY	(33) China
KIM, Je Young	(73) Phenogy AG	(51) H01M 10/0525
CHOI, Hee Won	(72) BAKKER, Niels	H01M 4/133
WOO, Sang Wook	(31) 16101446	H01M 4/134
(31) 20190006167	(32) 05.02.2016	H01M 50/417
(32) 17.01.2019	(33) China	H01M 50/434
(33) Korea (Republic)	(51) H01M 8/0206	H01M 50/443
(51) H01M 4/70	H01M 8/0232	H01M 50/451
H01M 50/195	H01M 8/0267	H01M 50/457
H01M 50/198	(11) EP3306721	H01M 4/36
H01M 10/0525	(21) EP16803479.1	H01M 4/38
H01M 4/66	(47) 12.07.2023	H01M 4/587
(11) EP3985763	(87) JP2016066497	H01M 10/613
(21) EP20851621.1	08.12.2016	H01M 10/654
(47) 12.07.2023	(22) 02.06.2016	H01M 10/6562
(87) CN2020102829	(54) METAL SEPARATOR STRUCTURE	(11) EP3930065
18.02.2021	BODY FOR FUEL CELL, FUEL CELL	(21) EP20850310.2
(22) 17.07.2020	AND FUEL CELL STACK USING SAME	(47) 12.07.2023
(54) ELECTRODE ASSEMBLY AND	SEPARATOR STRUCTURE BODY	(87) CN2020106916
BATTERY UNIT	(73) Nissan Motor Co., Ltd.	11.02.2021
(73) Contemporary Amperex Technology Co.,	(72) KUWATA, Shigemasa	(22) 04.08.2020
Limited	OKU, Takanori	(54) LITHIUM ION BATTERY AND DEVICE
(72) XU, Long	(31) 2015113077	(73) Contemporary Amperex Technology Co.,
LAI, Youlei	(32) 03.06.2015	Limited

(72) XIE, Bin MA, Lin GONG, Zhijie CHEN, Shitong	GE, Xiaoming WANG, Yiheng	(47) 12.07.2023 (87) CN2018091631 20.12.2018
(31) 201910715799 (32) 05.08.2019 (33) China	(51) H01M 10/054 H01M 10/0567 H01M 10/0568 H01M 10/0569 H01M 4/587	(22) 15.06.2018 (54) CHARGING DEVICE AND CHARGING METHOD (73) Positec Power Tools (Suzhou) Co., Ltd
(51) H01M 10/0525 H01M 10/0567 H01M 10/0568 H01M 10/0569 C07F 9/06	(11) EP3276735 (21) EP16768664.1 (47) 12.07.2023 (87) JP2016058653 29.09.2016	(72) SHAO, Xiao CHEN, Mingming DENG, Qiang (31) 201710442104 (32) 15.06.2017 (33) China
(11) EP3890090 (21) EP21166483.4 (47) 12.07.2023 (22) 31.03.2021 (54) ELECTROLYTE FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY INCLUDING THE SAME	(22) 18.03.2016 (54) NONAQUEOUS ELECTROLYTE FOR SODIUM SECONDARY BATTERY AND SODIUM SECONDARY BATTERY (73) Sumitomo Chemical Company, Ltd. (72) YAMAGUCHI, Takitaro ONODERA, Toru TANAKA, Hidenaka	(31) 201710442104 (32) 15.06.2017 (33) China
(73) SK On Co., Ltd. (72) LEE, Dong Gun LEE, Joo Hyun KIM, Sung Jin CHO, In Haeng	(31) 2015062133 (32) 25.03.2015 (33) Japan	(51) H01M 10/44 H02J 7/00 H02J 9/00 B23D 45/04 B25F 5/00 (11) EP3846276 (21) EP21157396.9 (47) 12.07.2023 (22) 28.07.2017
(31) 20200040945 (32) 03.04.2020 (33) Korea (Republic)	(51) H01M 10/058 H01M 10/04 H01M 10/0585 H01M 10/0587 H01M 10/0525 H01M 50/46	(54) METHOD OF PREVENTING LEAKAGE CURRENT IN A POWER TOOL AND POWER TOOL (73) Techtronic Cordless GP (72) Clack, Justin (31) 201615223400 (32) 29.07.2016 (33) United States of America
(51) H01M 10/0525 H01M 10/0585 H01M 10/0587 H01M 50/105 H01M 50/129 H01M 50/178 H01M 50/184	(11) EP3520163 (21) EP17768447.9 (47) 12.07.2023 (87) EP2017073316 05.04.2018	(31) 201615223400 (32) 29.07.2016 (33) United States of America
(11) EP3800690 (21) EP20809904.4 (47) 12.07.2023 (87) CN2020084343 26.11.2020 (22) 11.04.2020 (54) SECONDARY BATTERY	(22) 15.09.2017 (54) METHOD FOR THE MANUFACTURE OF AN ELECTRODE ASSEMBLY AND ELECTRODE ASSEMBLY (73) Robert Bosch GmbH (72) HEROLD, Juergen SAUERTEIG, Daniel DERRA, Mathias POLLER, Silvan	(51) H01M 10/48 H01M 10/42 G01K 7/22 (11) EP3916880 (21) EP20177391.8 (47) 12.07.2023 (22) 29.05.2020 (54) TEMPERATURE-DEPENDENT RESISTOR NETWORK FOR TEMPERATURE ANOMALY MONITORING IN A BATTERY SYSTEM (73) Samsung SDI Co., Ltd. (72) Kraberger, Gernot Erhart, Michael Parz, Peter
(73) Contemporary Amperex Technology Co., Limited (72) WU, Yongbin XIE, Mianyu	(31) 102016218496 (32) 27.09.2016 (33) Germany	(54) METHOD OF PREVENTING LEAKAGE CURRENT IN A POWER TOOL AND POWER TOOL (73) Techtronic Cordless GP (72) Clack, Justin (31) 201615223400 (32) 29.07.2016 (33) United States of America
(31) 201910413559 (32) 17.05.2019 (33) China	(51) H01M 10/42 H01M 50/574 H01M 50/105 H01M 50/133	(51) H01M 10/613 H01M 10/617 H01M 10/6556 H01M 10/6568 (11) EP3637535 (21) EP17918547.5 (47) 12.07.2023 (87) CN2017094697 24.01.2019 (22) 27.07.2017 (54) UNIFORM FLOW DEVICE AND METHOD FOR BATTERY ENERGY-STORAGE LIQUID COOLING SYSTEM (73) Jing-Jin Electric Technologies Co., Ltd (72) HAN, James (31) 201710599965 (32) 21.07.2017 (33) China
(51) H01M 10/0525 H01M 50/209 H01M 50/24 H01M 50/103 H01M 50/124 H01M 50/141 B60L 50/64	(11) EP3723184 (21) EP18886243.7 (47) 12.07.2023 (87) KR2018013361 13.06.2019 (22) 06.11.2018 (54) BATTERY PACK (73) Samsung SDI Co., Ltd. (72) YOO, Dae Hyeong LEE, Eun Joong UM, Mi Ae	(51) H01M 10/613 H01M 10/617 H01M 10/6556 H01M 10/6568 (11) EP3637535 (21) EP17918547.5 (47) 12.07.2023 (87) CN2017094697 24.01.2019 (22) 27.07.2017 (54) UNIFORM FLOW DEVICE AND METHOD FOR BATTERY ENERGY-STORAGE LIQUID COOLING SYSTEM (73) Jing-Jin Electric Technologies Co., Ltd (72) HAN, James (31) 201710599965 (32) 21.07.2017 (33) China
(11) EP4064434 (21) EP21810513.8 (47) 12.07.2023 (87) CN2021074158 04.08.2022 (22) 28.01.2021 (54) INSULATING FILM, BATTERY CELL, BATTERY AND ELECTRIC DEVICE	(22) 06.11.2018 (54) BATTERY PACK (73) Samsung SDI Co., Ltd. (72) YOO, Dae Hyeong LEE, Eun Joong UM, Mi Ae	(54) UNIFORM FLOW DEVICE AND METHOD FOR BATTERY ENERGY-STORAGE LIQUID COOLING SYSTEM (73) Jing-Jin Electric Technologies Co., Ltd (72) HAN, James (31) 201710599965 (32) 21.07.2017 (33) China
(73) Contemporary Amperex Technology Co., Limited (72) MA, Ruoyan CHEN, Xin	(31) 20170165227 (32) 04.12.2017 (33) Korea (Republic)	(51) H01M 12/06 H01M 6/50 H01M 4/04 H01M 4/12 H01M 10/42
	(51) H01M 10/44 H02J 7/00 (11) EP3641046 (21) EP18818683.7	

H01M 4/02	A62C 3/16	H01P 1/20
H01M 50/138	A62C 35/10	(11) EP3695455
H01M 50/691	H01M 10/613	(21) EP17784629.2
(11) EP3566260	H01M 50/609	(47) 12.07.2023
(21) EP17890038.7	(11) EP4009433	(87) EP2017076187
(47) 12.07.2023	(21) EP20828247.5	18.04.2019
(87) IL2017051407	(47) 12.07.2023	(22) 13.10.2017
12.07.2018	(87) CN2020121994	(54) WAWEGUIDE INTERCONNECTION
(22) 31.12.2017	28.04.2022	WITH GLIDE SYMMETRICALLY
(54) SYSTEM AND METHOD FOR METAL- AIR ANODE RENOVATION	(22) 19.10.2020	POSITIONED HOLES FOR AVOIDING LEAKAGE
(73) Phinergy Ltd.	(54) BATTERY, ELECTRIC APPARATUS, AND BATTERY MANUFACTURING METHOD AND DEVICE	(73) Telefonaktiebolaget LM Ericsson (publ)
(72) TZIDON, Dekel	(73) Jiangsu Contemporary AmpereX Technology Limited	(72) ALGABA BRAZALEZ, Astrid
TZIDON, Aviv	(72) LIANG, Chengdu	EBRAHIMPOURI HAMLKAR, Mahsa
YADGAR, Avraham	HUANG, Xiaoteng	QUEVEDO-TERUEL, Oscar
PERETZ, Vital	HU, Langchao	MANHOLM, Lars
(31) 201715396841	YANG, Haiqi	(51) H01P 3/08
(32) 03.01.2017	HONG, Jiarong	(11) EP3499637
(33) United States of America	WANG, Wenli	(21) EP17207818.0
(51) H01M 50/10	(51) H01M 50/451	(47) 12.07.2023
H01M 50/609	H01M 50/491	(22) 15.12.2017
H01M 10/0525	H01M 50/489	(54) TRANSMISSION LINE FOR RADIO FREQUENCY SIGNALS AND METHOD OF PROVIDING A TRANSMISSION LINE
H01M 50/103	B32B 5/24	(73) Nokia Solutions and Networks Oy
H01M 50/645	C09J 127/16	(72) Kozlov, Dmitry
(11) EP3934012	C09J 201/00	Bulja, Senad
(21) EP20824411.1	B32B 7/12	Lundy, Ross
(47) 12.07.2023	H01M 10/052	Enright, Ryan
(87) CN2020090349	(11) EP3919269	Nolan, Kevin
18.11.2021	(21) EP20819240.1	(51) H01Q 1/02
(22) 14.05.2020	(47) 12.07.2023	H01Q 1/42
(54) END CAP ASSEMBLY, SECONDARY BATTERY, BATTERY PACK, AND DEVICE USING BATTERY	(87) JP2020021912	H01Q 1/32
(73) Contemporary AmpereX Technology Co., Limited	(22) 03.06.2020	G01S 7/02
(72) LI, Wei	(54) SEPARATOR FOR NON-AQUEOUS SECONDARY BATTERY, AND NON- AQUEOUS SECONDARY BATTERY	(11) EP3618179
CHEN, Yuanbao	(73) Teijin Limited	(21) EP18382634.6
LIANG, Chengdu	(72) NISHIKAWA, Satoshi	(47) 12.07.2023
WANG, Peng	HONDA, Susumu	(22) 30.08.2018
GUO, Zhijun	(31) 2019104514	(54) RADOME FOR VEHICLES AND METHOD FOR MANUFACTURING SAID RADOME
CHEN, Xinxiang	(32) 04.06.2019	(73) Zanini Auto Grup, S.A.
ZHENG, Yulian	(33) Japan	(72) SANAHUJA CLOT, José
(51) H01M 50/211	(51) H01M 50/531	MAYER PUJADAS, Augusto
H01M 50/503	H01M 10/0525	CASANOVAS CEJUELA, Miquel
H01M 50/533	H01M 10/0587	BOVER BALDERICH, Marc
H01M 50/54	H01M 50/533	MASCARÓ HERESA, Marçal
(11) EP3926750	H01M 50/536	(51) H01Q 1/08
(21) EP20889152.3	H01M 50/55	H01Q 1/22
(47) 12.07.2023	(11) EP3926753	H01Q 1/27
(87) CN2020128467	(21) EP20852469.4	H01Q 9/16
27.05.2021	(47) 12.07.2023	D02G 3/44
(22) 12.11.2020	(87) CN2020102832	D02G 3/36
(54) SOFT PACKAGE BATTERY MODULE AND DEVICE OF WHICH BATTERY PACK USES SOFT PACKAGE BATTERY MODULE	18.02.2021	G06K 19/02
(73) Contemporary AmpereX Technology Co., Limited	(22) 17.07.2020	G06K 19/077
(72) WANG, Yongguang	(54) ELECTRODE ASSEMBLY AND BATTERY CELL	(11) EP4044364
WANG, Zhichao	(73) Contemporary AmpereX Technology Co., Limited	(21) EP22155789.5
TANG, Yu	(72) GU, Hui	(47) 12.07.2023
YOU, Kaijie	MA, Lin	(22) 09.02.2022
CHEN, Xingdi	LIU, Huihui	(54) RADIOFREQUENCY TRANSCEIVER DEVICE USING AN ANTENNA MADE UP OF A TEXTILE WIRE AND A CONDUCTIVE RIBBON AND ASSOCIATED ELECTRONIC TAG
(31) 201922002614 U	CAO, Jingyu	(73) PRIMO1D
(32) 19.11.2019	(31) 201910749926	(72) CEUGNIET, Grégoire
(33) China	(32) 14.08.2019	SETTE, Daniele
(51) H01M 50/375	(33) China	
H01M 50/383	(51) H01P 1/04	

GUIRIMAND, Anne	H01Q 1/52	Pasko, Szymon
(31) 2101414	H01Q 5/371	(51) H01Q 3/32
(32) 15.02.2021	H01Q 5/378	H01P 1/18
(33) France	H01Q 5/48	(11) EP3547446
(51) H01Q 1/12	H01Q 9/28	(21) EP17873164.2
H01Q 1/08	H01Q 25/00	(47) 12.07.2023
H01Q 15/16	H01Q 21/24	(87) CN2017085005
H01Q 1/28	H01Q 21/06	31.05.2018
(11) EP4024606	(11) EP3841637	(22) 19.05.2017
(21) EP19797318.3	(21) EP19801444.1	(54) DIELECTRIC PHASE SHIFTING UNIT,
(47) 12.07.2023	(47) 12.07.2023	DIELECTRIC PHASE SHIFTER AND
(87) ES2019070635	(87) US2019056844	BASE STATION ANTENNA
01.04.2021	30.04.2020	(73) Comba Telecom Technology
(22) 24.09.2019	(22) 18.10.2019	(Guangzhou) Ltd.
(54) DEPLOYABLE ASSEMBLY FOR	(54) ANTENNAS INCLUDING MULTI-	(72) SU, Guosheng
ANTENNAE	RESONANCE CROSS-DIPOLE	CHEN, Litao
(73) Airbus Defence and Space, S.A.	RADIATING ELEMENTS AND RELATED	LIU, Peitao
(72) CESPEDOSA CASTÁN, Fernando José	RADIATING ELEMENTS	GAO, Bin
PLAZA MORA, José Luis	(73) CommScope Technologies LLC	(31) 201611063025
(51) H01Q 1/24	(72) BISIULES, Peter J.	(32) 25.11.2016
H01Q 1/38	DENG, Gangyi	(33) China
H01Q 1/36	TANG, Chengcheng	(51) H01Q 9/28
H01Q 1/22	LI, YueMin	H01Q 1/24
H01Q 9/04	LI, Yunzhe	H01Q 21/28
H01Q 21/08	VARNOOSFADERANI, Mohammad	H01Q 21/08
H01Q 1/52	Vatankah	H01Q 9/16
(11) EP3859879	(31) 201962797667 P	H01Q 9/06
(21) EP19867410.3	201862749167 P	H01Q 5/371
(47) 12.07.2023	(32) 28.01.2019	H01Q 1/48
(87) CN2019101510	23.10.2018	H01Q 1/22
02.04.2020	(33) United States of America	(11) EP3864721
(22) 20.08.2019	United States of America	(21) EP20755468.4
(54) TERMINAL DEVICE	(51) H01Q 1/24	(47) 12.07.2023
(73) VIVO MOBILE COMMUNICATION CO.,	H01Q 21/06	(87) KR2020002170
LTD.	H01Q 1/22	20.08.2020
(72) WANG, Yijin	(11) EP3747182	(22) 14.02.2020
HUANG, Huan-Chu	(21) EP19785534.9	(54) ANTENNA MODULE AND
JIAN, Xianjing	(47) 12.07.2023	ELECTRONIC DEVICE INCLUDING
(31) 201811142604	(87) KR2019003720	THE SAME
(32) 28.09.2018	17.10.2019	(73) Samsung Electronics Co., Ltd.
(33) China	(22) 29.03.2019	(72) JONG, Jehun
(51) H01Q 1/24	(54) ELECTRONIC DEVICE INCLUDING	KIM, Dongyeon
H01Q 1/42	COVER HAVING ANTENNA MODULE	PARK, Sehyun
H01Q 21/28	COUPLED THERETO	JEONG, Myunghun
H01Q 1/12	(73) Samsung Electronics Co., Ltd.	JO, Jaehoon
H01Q 5/42	(72) YU, Dongho	PARK, Seongjin
H01Q 21/00	AHN, Kucheol	YUN, Sumin
H01Q 5/30	(31) 20180042078	(31) 20190017385
(11) EP3883054	(32) 11.04.2018	(32) 14.02.2019
(21) EP21167176.3	(33) Korea (Republic)	(33) Korea (Republic)
(47) 12.07.2023	(51) H01Q 1/32	(51) H01Q 9/28
(22) 01.10.2020	H01Q 7/08	H01Q 19/24
(54) BASE STATION ANTENNA UNITS	H01F 3/10	H01Q 25/00
HAVING ARRAYS SPANNING	H01Q 1/40	H01Q 21/24
MULTIPLE ANTENNAS THAT ARE	H01F 3/14	H01Q 5/378
CONNECTED BY JUMPER CABLES	H01F 27/02	H01Q 1/24
(73) CommScope Technologies LLC	H01F 27/26	H01Q 21/00
(72) BISIULES, Peter J.	H01F 41/00	(11) EP3586400
KAISTHA, Amit	H01F 17/04	(21) EP17713480.6
LI, Haifeng	(11) EP3723196	(47) 12.07.2023
PATEL, Sammit	(21) EP19169036.1	(87) SE2017050184
(31) 202062975372 P	(47) 12.07.2023	30.08.2018
201962949709 P	(22) 12.04.2019	(22) 27.02.2017
(32) 12.02.2020	(54) ANTENNA	(54) A BOWTIE ANTENNA ARRANGEMENT
18.12.2019	(73) Schaffner EMV AG	(73) Gapwaves AB
(33) United States of America	(72) Lebreton, Stéphane	(72) YANG, Jian
United States of America	Dalessandro, Luca	YIN, Jungang
(51) H01Q 1/24	Musiqi, Shemsi	XIE, Chao

MANSOURI MOGHADDAM, Sadegh	H01R 13/11	(22) 27.10.2021
(51) H01Q 13/02	H01R 43/048	(54) CONNECTOR
H01P 1/161	(11) EP4002591	(73) Japan Aviation Electronics Industry, Ltd.
H01P 5/02	(21) EP21210040.8	(72) TAKIZAWA, Satoru
H01P 5/107	(47) 12.07.2023	(31) 2021001241
H01Q 19/17	(22) 23.11.2021	(32) 07.01.2021
(11) EP3282516	(54) POWER TERMINAL WITH IMPROVED	(33) Japan
(21) EP16183814.9	CRIMPING PORTION AND CRIMPING	(51) H01R 13/453
(47) 12.07.2023	METHOD THEREOF	H01R 13/635
(22) 11.08.2016	(73) Aptiv Technologies Limited	H01R 24/76
(54) WAVEGUIDE TRANSITION	(72) BOSSUYT, Sylvain	(11) EP3512045
STRUCTURE FOR RECEIVING	CORDIER, Quentin	(21) EP19151925.5
SATELLITE SIGNALS	ELMANFALOUTI, Abdelaziz	(47) 12.07.2023
(73) Microelectronics Technology Inc.	(31) 2012092	(22) 15.01.2019
(72) CHANG, Kuotien	(32) 24.11.2020	(54) ELECTRICAL OUTLET
LIN, Yenfen	(33) France	(73) Schneider Electric España, S.A.
WU, Yu-Chih	(51) H01R 12/71	(72) TUFFERY, Clément
(51) H01Q 21/20	(11) EP3262718	VARGHESE, Tensen
H01Q 3/30	(21) EP16709193.3	SAINZ HERMOSO, Pedro Matias
H01Q 3/04	(47) 12.07.2023	SANTESTEBAN INSAUSTI, Patxi
H01Q 25/00	(87) US2016018637	GONZALEZ IRIBAS, Aitor
G01S 7/02	01.09.2016	(31) 201830041
G01S 13/42	(22) 19.02.2016	(32) 15.01.2018
G01S 13/95	(54) HIGH DATA TRANSFER SMART CARD	(33) Spain
G01S 13/02	READER WITH HEAT SINK	(51) H01R 13/506
(11) EP3923414	(73) DISH Technologies L.L.C.	A45F 3/04
(21) EP21178326.1	(72) BEALS, William, Michael	H01R 13/631
(47) 12.07.2023	(31) 201514631734	H01R 13/74
(22) 08.06.2021	(32) 25.02.2015	H01R 13/516
(54) DUAL-POLARIZED PHASED ARRAY	(33) United States of America	A41D 1/00
ANTENNA AND DUAL-POLARIZED	(51) H01R 13/11	H01R 43/18
PHASED ARRAY WEATHER RADAR	H01R 13/193	H01R 13/502
(73) Meteorological Observation Centre of	H01R 43/16	(11) EP3736915
China Meteorological Administration	H01R 13/428	(21) EP18897992.6
(72) Bu, Zhichao	(11) EP3435491	(47) 12.07.2023
Shao, Nan	(21) EP18184999.3	(87) CN2018117812
Gao, Yuchun	(47) 12.07.2023	11.07.2019
Liang, Haihe	(22) 23.07.2018	(22) 28.11.2018
Chen, Yubao	(54) TERMINAL WITH CONTACT PIECE,	(54) ATTACHABLE SURFACE COVER FOR
Chen, Hu	CONNECTOR, AND CONNECTOR	USB PORT
Han, Xu	DEVICE	(73) Duraflex Hong Kong Limited
Li, Chen	(73) Hirose Electric Co., Ltd.	(72) CHAN, Man Chak
Wang, Xiaopeng	(72) TASHIRO, Isao	(31) 201810020471
Chen, Yingchun	NOGUCHI, Takamitsu	(32) 02.01.2018
Lu, Jianbing	MAMADA, Yasuhiro	(33) China
Li, Changxing	(31) 2017142587	(51) H01R 13/52
(31) 202010533983	(32) 24.07.2017	H01R 13/506
(32) 12.06.2020	(33) Japan	H01R 12/63
(33) China	(51) H01R 13/187	(11) EP3382819
(51) H01R 4/18	H01R 13/11	(21) EP18164840.3
H01R 4/62	H01R 11/32	(47) 12.07.2023
H01R 43/02	H01R 13/04	(22) 29.03.2018
H01R 4/20	(11) EP4125158	(54) FLUIDICALLY SEALED ENCLOSURE
(11) EP3138160	(21) EP22187204.7	FOR WINDOW ELECTRICAL
(21) EP15718771.7	(47) 12.07.2023	CONNECTIONS
(47) 12.07.2023	(22) 27.07.2022	(73) AGC Automotive Americas R & D, Inc.
(87) EP2015000800	(54) ELECTRICAL CONNECTION	(72) SCHUCH, William C.
05.11.2015	STRUCTURE	IMESON, Christopher A.
(22) 16.04.2015	(73) Yazaki Corporation	(31) 201715472970
(54) CRIMPED WELDED JOINT	(72) Kubota, Minoru	(32) 29.03.2017
(73) Rosenberger Hochfrequenztechnik	(31) 2021123528	(33) United States of America
GmbH & Co. KG	(32) 28.07.2021	(51) H01R 13/627
(72) HUNDESEDER, Martin	(33) Japan	H01R 13/641
BALDAUF, Walter	(51) H01R 13/436	H01R 12/75
(31) 102014006244	H01R 13/518	H01R 13/639
(32) 28.04.2014	(11) EP4027464	(11) EP4012846
(33) Germany	(21) EP21205102.3	(21) EP21203767.5
(51) H01R 4/18	(47) 12.07.2023	(47) 12.07.2023

(22) 20.10.2021	(47) 12.07.2023	(47) 12.07.2023
(54) CONNECTOR ASSEMBLY	(22) 09.12.2020	(87) FR2016052695
(73) Japan Aviation Electronics Industry, Limited	(54) METHOD AND DEVICE FOR DETECTING ABSOLUTE OR RELATIVE TEMPERATURE AND/OR ABSOLUTE OR RELATIVE WAVELENGTH	26.04.2018
(72) OBATA, Yusuke	(73) ADVA Optical Networking SE	(22) 18.10.2016
MORISHITA, Yukuya	(72) Mehrpoor, Gilda	(54) PROTECTIVE SHEATH IN PARTICULAR INTENDED FOR HOUSING ELECTRICAL CABLES
(31) 2020203588	(72) Wohlfeil, Benjamin	(73) Safran Aerosystems
(32) 08.12.2020	(51) H01S 5/22	(72) TENDRON, Yohan
(33) Japan	H01S 5/023	PESTEL, Eric
(51) H01R 13/635	H01S 5/02325	(51) H02G 3/12
H01R 13/633	H01S 5/02326	H02G 3/18
(11) EP3586407	H01S 5/0233	H01R 13/508
(21) EP18724629.3	H01S 5/0234	H01R 13/703
(47) 12.07.2023	H01S 5/02345	(11) EP3483997
(87) RO2018000003	H01S 5/0235	(21) EP18205491.6
30.08.2018	H01S 5/02355	(47) 12.07.2023
(22) 22.02.2018	(11) EP3583667	(22) 09.11.2018
(54) ELECTRICAL POWER OUTLET WITH EXTRACTOR AND PLATFORM FOR TYPE C, E OR F PLUG	(21) EP18704821.0	(54) ELECTRICAL APPARATUS
(73) RISTEA, Silviu	(47) 12.07.2023	(73) Legrand France
(72) RISTEA, Silviu	(87) US2018016455	Legrand SNC
(31) 201700108	23.08.2018	(72) BARRUCHE, Alain
(32) 24.02.2017	(22) 01.02.2018	(31) 1760579
(33) Romania	(54) BONDED LASER WITH SOLDER-FREE LASER ACTIVE STRIPE IN FACING RELATIONSHIP WITH SUBMOUNT	(32) 10.11.2017
(51) H01R 35/02	(73) Cisco Technology, Inc.	(33) France
B64D 11/06	(72) NADEAU, Mary	(51) H02G 3/32
H01R 24/60	NEIMAN, Jarrett S.	(11) EP3480910
H01R 13/633	PANNALA, Mittu	(21) EP18204164.0
(11) EP3847727	(31) 201715431840	(47) 12.07.2023
(21) EP19762791.2	(32) 14.02.2017	(22) 02.11.2018
(47) 12.07.2023	(33) United States of America	(54) UNIVERSAL CABLE TIE MOUNT
(87) EP2019073440	(51) H01T 19/00	(73) Panduit Corp
12.03.2020	H01T 23/00	(72) SYLVESTER, David J.
(22) 03.09.2019	H01T 19/04	(31) 201816174511
(54) PLUG-IN CONNECTION SOCKET AND PASSENGER SERVICE MODULE	(11) EP4016765	201762581283 P
(73) Lufthansa Technik AG	(21) EP21212687.4	(32) 30.10.2018
(72) PIOTROWSKI, Pawel	(47) 12.07.2023	03.11.2017
(31) 102018121680	(22) 07.12.2021	(33) United States of America
(32) 05.09.2018	(54) IONIZER FOR EMITTING NEGATIVE IONS FROM CARBON FILAMENTS PROTECTED BY A PLASTIC BARRIER	United States of America
(33) Germany	(73) Leonardos, Lorena	(51) H02G 7/05
(51) H01R 43/02	(72) Leonardos, Lorena	H02G 7/20
H01R 11/12	(31) 202000242	H01B 9/00
H01R 4/02	(32) 21.12.2020	(11) EP3721516
(11) EP3701601	(33) Slovenia	(21) EP18796428.3
(21) EP18785330.4	(51) H02G 1/02	(47) 12.07.2023
(47) 12.07.2023	H02G 7/00	(87) EP2018079813
(87) EP2018077314	(11) EP3783760	13.06.2019
02.05.2019	(21) EP20187699.2	(22) 31.10.2018
(22) 08.10.2018	(47) 12.07.2023	(54) OVERHEAD LINE CONDUCTOR BRIDGING DEVICE AND USE THEREOF IN A RETROFITTING OR PRODUCTION METHOD FOR ELECTRICITY PYLONS
(54) METHOD FOR THE INTEGRALLY BONDED JOINING OF AN ELECTRIC CABLE TO AN ELECTRICAL CONTACT PART, AND ELECTRIC CABLE ARRANGEMENT	(22) 24.07.2020	(73) AXPO Grid AG
(73) Lisa Dräxlmaier GmbH	(54) DEVICE AND METHOD FOR INSTALLING AN AVIFAUNA BEACON ON AN OVERHEAD CABLE	(72) MEPPELINK, Jan
(72) FORSTMEIER, Christoph	(73) Enedis	WUNDERLIN, Toni
(31) 102017124693	(72) BOUQUIN, Pierrig	(31) 14722017
(32) 23.10.2017	OGRÉ, Bertrand	(32) 04.12.2017
(33) Germany	(31) 1909294	(33) Switzerland
(51) H01S 5/0687	(32) 20.08.2019	(51) H02G 11/02
G02B 6/293	(33) France	B65H 75/44
G01K 11/00	(51) H02G 3/04	B65H 75/40
H01S 5/068	D04B 1/22	(11) EP4037120
H01S 5/0683	(11) EP3529870	(21) EP21205771.5
(11) EP4012854	(21) EP16809458.9	(47) 12.07.2023
(21) EP20212879.9		(22) 01.11.2021
		(54) ELECTRIC WINDER AND METHOD FOR CONTROLLING SAME

(73) Intradin (Huzhou) Precision Technology Co., Ltd.	H02J 7/00	(21) EP13163920.5
(72) WANG, Gaofeng	(11) EP3460939	(47) 12.07.2023
NING, Jisheng	(21) EP18170328.1	(22) 16.04.2013
QIAO, Xuetao	(47) 12.07.2023	(54) Controller for controlling a power converter
(31) 202110142110	(22) 02.05.2018	(73) Siemens Aktiengesellschaft
(32) 02.02.2021	(54) BATTERY CONTROL METHOD AND APPARATUS	(72) Jones, Rodney
(33) China	(73) Samsung Electronics Co., Ltd.	Brogan, Paul Brian
(51) H02H 3/05	(72) KIM, Young Jae	(51) H02J 7/34
H02H 3/087	SUNG, Young Hun	(11) EP3891860
H02H 3/093	JEON, Jinyong	(21) EP20812034.5
H02H 7/18	(31) 20170122022	(47) 12.07.2023
(11) EP4123858	(32) 21.09.2017	(87) EP2020083592
(21) EP21187492.0	(33) Korea (Republic)	17.06.2021
(47) 12.07.2023	(51) H02J 3/18	(22) 27.11.2020
(22) 23.07.2021	(11) EP3667854	(54) METHOD AND DEVICE FOR ENERGY HARVESTING USING A COLD-START VOLTAGE CONVERTER
(54) BATTERY MANAGEMENT SYSTEM AND METHOD FOR MONITORING OVERCURRENT IN A BATTERY MANAGEMENT SYSTEM	(21) EP18212397.6	(73) E-peas
(73) Munich Electrification GmbH	(47) 12.07.2023	(72) GOSSET, Geoffroy
(72) Kleppe, Sebastian	(22) 13.12.2018	DE VOS, Julien
Reichmeyer, Konstantin	(54) METHOD FOR MAKING USEFUL POTENTIAL REACTIVE POWER	(31) 19214875
Goede, Stefan	(73) Siemens Aktiengesellschaft	(32) 10.12.2019
(51) H02H 3/20	(72) Frischenschlager, Albin	(33) European Patent Office (EPO)
H02H 9/04	Einfalt, Alfred	(51) H02J 13/00
H02H 9/00	Zeilinger, Franz	H02J 3/38
H02H 3/06	(51) H02J 3/24	(11) EP3824525
H02H 1/06	(11) EP2962376	(21) EP18786191.9
(11) EP3437169	(21) EP14713563.6	(47) 12.07.2023
(21) EP17707814.4	(47) 12.07.2023	(87) US2018052999
(47) 12.07.2023	(87) GB2014050605	02.04.2020
(87) EP2017054430	04.09.2014	(22) 27.09.2018
05.10.2017	(22) 28.02.2014	(54) POWER DISTRIBUTION VIRTUAL NETWORKING
(22) 27.02.2017	(54) OSCILLATION ANALYSIS METHOD AND APPARATUS THEREFOR	(73) Siemens Canada Limited
(54) CIRCUIT ARRANGEMENT FOR PROTECTING LOADS CONNECTED TO A MULTI-PHASE NETWORK, HAVING UNDERVOLTAGE AND OVERVOLTAGE SWITCH-OFF FUNCTION	(73) Psymetrix Ltd	(72) ZAFIROVIC-VUKOTIC, Mirjana
(73) DEHN SE	(72) AL-ASHWAL, Natheer	LOHMEYER, Joachim
(72) EHRLER, Jens	WILSON, Douglas	(51) H02J 50/10
EHRHARDT, Arnd	(31) 201303735	E04C 2/26
BÜHLER, Klaus	(32) 01.03.2013	(11) EP3833828
(31) 102016116093	(33) United Kingdom	(21) EP19769241.1
102016003782	(51) H02J 3/38	(47) 12.07.2023
(32) 30.08.2016	H02J 13/00	(87) IB2019056750
29.03.2016	H02S 50/10	13.02.2020
(33) Germany	(11) EP3926782	(22) 08.08.2019
Germany	(21) EP20911646.6	(54) COVERING PANEL AND FASTENING SYSTEM COMPRISING SAID PANEL, PROCESS FOR FASTENING
(51) H02H 3/32	(47) 12.07.2023	(73) LYM S.r.l.
H02H 3/33	(87) CN2020124773	(72) CARLET, Andrea
H02H 3/347	15.07.2021	DEPLANO, Davide
H02M 7/04	(22) 29.10.2020	(31) 201800007975
H02H 7/20	(54) METHOD AND APPARATUS FOR OBTAINING POSITION INFORMATION OF CONTROLLER	(32) 08.08.2018
(11) EP3509177	(73) Huawei Digital Power Technologies Co., Ltd.	(33) Italy
(21) EP18150887.0	(72) SUN, Yu	(51) H02J 50/12
(47) 12.07.2023	SHUI, Wei	H02J 50/40
(22) 09.01.2018	MA, Xun	B60L 53/12
(54) METHOD FOR DETECTING EARTH-FAULT CONDITIONS IN A POWER CONVERSION APPARATUS	(31) 202010018099	B60L 53/39
(73) ABB Schweiz AG	(32) 08.01.2020	B60M 7/00
(72) Gargiulo, Matteo	(33) China	(11) EP4002644
Scaletti, Silvio	(51) H02J 3/50	(21) EP21212298.0
Guerrero, Alessandro	H02J 3/48	(47) 12.07.2023
(51) H02J 1/10	H02J 3/40	(22) 19.12.2019
	H02J 3/18	(54) INDUCTIVE POWER TRANSFER WITH REDUCED ELECTROMAGNETIC INTERACTIONS WITHIN A CONDUCTOR ARRANGEMENT
	H02P 9/02	(73) Bombardier Primove GmbH
	H02J 3/38	
	H02J 3/46	
	(11) EP2793392	

(72) Czainski, Robert Woronowicz, Konrad (31) 201821029 (32) 21.12.2018 (33) United Kingdom	(21) EP15717442.6 (47) 12.07.2023 (87) EP2015057400 08.10.2015 (22) 02.04.2015	(31) 102018211433 (32) 10.07.2018 (33) Germany
(51) H02J 50/80 H02J 50/10 H04B 5/00 H04B 5/02 H04B 17/15 (11) EP3829028 (21) EP19212476.6 (47) 12.07.2023 (22) 29.11.2019 (54) METHOD AND DEVICES FOR PROVIDING OPERATIONAL FEEDBACK DURING POWER TRANSFER IN A WIRELESS POWER TRANSFER SYSTEM	(54) HOLLOW ELECTRICAL CONDUCTOR FOR AN ELECTRICAL MACHINE (73) Dynamic E Flow GmbH (72) SCHWEINERT, Nikolaus (31) 102014015564 102014006656 102014104817 (32) 20.10.2014 07.05.2014 04.04.2014 (33) Germany Germany Germany	(51) H02K 15/00 H02K 3/50 H02K 3/38 (11) EP3977603 (21) EP20725655.3 (47) 12.07.2023 (87) EP2020062378 03.12.2020 (22) 05.05.2020 (54) STATOR FOR AN ELECTRIC MACHINE AND METHOD FOR PRODUCING A STATOR OF THIS TYPE (73) Audi AG (72) BIER, Alexander WESTERMAIER, Christian HERRMANN, Patrick ANDRASCHKO, Stephan
(73) ElectDis AB (72) Lau, Buon Kiong Swaans, Laurens	(51) H02K 3/30 H02K 3/52 (11) EP2907223 (21) EP13817725.8 (47) 12.07.2023 (87) IB2013059368 24.04.2014 (22) 15.10.2013 (54) TEETH OF AN ELECTRIC MOTOR OR GENERATOR (73) Protean Electric Limited (72) Bell, Jamie Foulsham, John Roberts, Gareth	(31) 102019207889 (32) 29.05.2019 (33) Germany
(51) H02K 1/27 H02K 16/00 H02K 21/04 H02K 21/14 (11) EP2493055 (21) EP12156673.1 (47) 12.07.2023 (22) 23.02.2012 (54) Permanent-magnet type electric rotating machine	(31) 201218475 (32) 15.10.2012 (33) United Kingdom (51) H02K 7/08 H02K 41/03 F16C 13/00 F16C 19/08 F16C 29/00 F16C 29/04 B65G 54/02 (11) EP3885290 (21) EP21164290.5 (47) 12.07.2023 (22) 23.03.2021 (54) TRANSPORT SYSTEM (73) Hofstetter, Norbert (72) Hofstetter, Norbert Kumeth, Siegmund	(51) H02K 29/03 H02K 1/276 (11) EP3084939 (21) EP14830712.7 (47) 12.07.2023 (87) IB2014067090 25.06.2015 (22) 18.12.2014 (54) ROTOR SEGMENT AND ELECTRIC MACHINE ROTOR AND ELECTRIC MACHINE COMPRISING SUCH A ROTOR SEGMENT (73) WINDFIN B.V. (72) SCUOTTO, Mattia (31) MI20132126 (32) 18.12.2013 (33) Italy
(73) Kabushiki Kaisha Toshiba (72) Tokumasu, Tadashi Araki, Kuniyuki Yuuki, Kazuaki Matsushita, Makoto Arata, Masanori Mochizuki, Motoyasu Takahashi, Norio Hashiba, Yutaka Misu, Daisuke Sakai, Kazuto (31) 2011038860 (32) 24.02.2011 (33) Japan	(51) H02K 7/08 H02K 41/03 F16C 13/00 F16C 19/08 F16C 29/00 F16C 29/04 B65G 54/02 (11) EP3885290 (21) EP21164290.5 (47) 12.07.2023 (22) 23.03.2021 (54) TRANSPORT SYSTEM (73) Hofstetter, Norbert (72) Hofstetter, Norbert Kumeth, Siegmund (31) 102020108510 (32) 27.03.2020 (33) Germany	(51) H02K 37/14 G04C 3/14 H02P 8/02 (11) EP3223414 (21) EP17162406.7 (47) 12.07.2023 (22) 22.03.2017 (54) STEPPING MOTOR, MOTOR DRIVE DEVICE AND TIME DISPLAY DEVICE (73) Casio Computer Co., Ltd. (72) SAITO, Yuta (31) 2016061165 (32) 25.03.2016 (33) Japan
(51) H02K 3/18 H02K 3/12 H02K 7/18 H02K 15/00 (11) EP3469687 (21) EP17723698.1 (47) 12.07.2023 (87) EP2017061688 14.12.2017 (22) 16.05.2017 (54) WINDING OF A GENERATOR OF A WIND POWER INSTALLATION, AND METHOD FOR CONNECTING FLAT RIBBON CONDUCTORS	(51) H02K 11/01 H02K 13/66 B60T 8/36 G01D 11/24 (11) EP3821520 (21) EP19723786.0 (47) 12.07.2023 (87) EP2019062106 16.01.2020 (22) 11.05.2019 (54) ROTOR POSITION SENSOR FOR A DIRECT CURRENT MOTOR (73) Robert Bosch GmbH (72) JOERG, Martin	(51) H02K 47/20 H02K 21/24 H02K 1/18 H02K 1/28 H02K 7/116 H02K 7/14 H02K 16/00 H02J 7/14 (11) EP3644482 (21) EP18209108.2 (47) 12.07.2023 (22) 29.11.2018 (54) ELECTRICAL POWER GENERATING SYSTEM
(73) Wobben Properties GmbH (72) RÖER, Jochen MÖHLMANN, Gerald (31) 102016110533 (32) 08.06.2016 (33) Germany	(51) H02K 11/215 H02K 11/01 H02K 13/66 B60T 8/36 G01D 11/24 (11) EP3821520 (21) EP19723786.0 (47) 12.07.2023 (87) EP2019062106 16.01.2020 (22) 11.05.2019 (54) ROTOR POSITION SENSOR FOR A DIRECT CURRENT MOTOR (73) Robert Bosch GmbH (72) JOERG, Martin	(51) H02K 11/215 H02K 11/01 H02K 13/66 B60T 8/36 G01D 11/24 (11) EP3821520 (21) EP19723786.0 (47) 12.07.2023 (87) EP2019062106 16.01.2020 (22) 11.05.2019 (54) ROTOR POSITION SENSOR FOR A DIRECT CURRENT MOTOR (73) Robert Bosch GmbH (72) JOERG, Martin
(51) H02K 3/22 (11) EP3127218	(51) H02K 11/215 H02K 11/01 H02K 13/66 B60T 8/36 G01D 11/24 (11) EP3821520 (21) EP19723786.0 (47) 12.07.2023 (87) EP2019062106 16.01.2020 (22) 11.05.2019 (54) ROTOR POSITION SENSOR FOR A DIRECT CURRENT MOTOR (73) Robert Bosch GmbH (72) JOERG, Martin	(51) H02K 11/215 H02K 11/01 H02K 13/66 B60T 8/36 G01D 11/24 (11) EP3821520 (21) EP19723786.0 (47) 12.07.2023 (87) EP2019062106 16.01.2020 (22) 11.05.2019 (54) ROTOR POSITION SENSOR FOR A DIRECT CURRENT MOTOR (73) Robert Bosch GmbH (72) JOERG, Martin



(73) Poly International New Energy Technology Co., Ltd.	(51) H02M 5/458	(72) JIANG, Yiming
(72) CHEN, KUANG-CHIN	H02M 7/5387	SHAO, Jincheng
CHEN, CHAO-HUANG	H02H 3/027	(31) 201810416766
(31) 10737198	H02H 7/122	(32) 03.05.2018
(32) 22.10.2018	H02P 29/024	(33) China
(33) Taiwan, Chinese Taipei	H02M 1/32	(51) H02M 7/487
(51) H02K 49/06	(11) EP3584916	H02M 7/483
(11) EP3743991	(21) EP19162262.0	H02M 7/5387
(21) EP19701645.4	(47) 12.07.2023	H02M 1/00
(47) 12.07.2023	(22) 12.03.2019	(11) EP3637610
(87) EP2019051706	(54) METHOD FOR CONTROLLING	(21) EP18809816.4
01.08.2019	INVERTER	(47) 12.07.2023
(22) 24.01.2019	(73) LSIS Co., Ltd.	(87) CN2018088783
(54) SCALABLE HYSTERESIS COUPLING	(72) KIM, Hyo-Jin	06.12.2018
(73) Stahl CraneSystems GmbH	(31) 20180069669	(22) 29.05.2018
(72) GOLDER, Markus	(32) 18.06.2018	(54) MULTI-LEVEL CIRCUIT, THREE-PHASE
(31) 102018101765	(33) Korea (Republic)	MULTI-LEVEL CIRCUIT, AND CONTROL
(32) 26.01.2018	(51) H02M 7/00	METHOD
(33) Germany	H01G 2/02	(73) Huawei Digital Power Technologies Co.,
(51) H02M 1/36	H01G 4/224	Ltd.
H02M 3/337	H01G 4/228	(72) ZHANG, Xiaofei
H02M 1/32	H01G 4/38	HUANG, Zhuyong
H02M 1/00	H01G 2/10	ZHANG, Chuntao
(11) EP3907870	(11) EP3893378	(31) 201710407831
(21) EP20172718.7	(21) EP21167255.5	(32) 02.06.2017
(47) 12.07.2023	(47) 12.07.2023	(33) China
(22) 04.05.2020	(22) 07.04.2021	(51) H02M 7/5387
(54) POWER CONVERTER WITH	(54) BUSBAR WITH TAILORED	G01R 27/26
OVERSHOOT PROTECTION	PERFORATION SIZES TO PROVIDE	H02M 1/00
(73) Tridonic GmbH & Co. KG	THERMAL PATH	(11) EP4073920
(72) Marte, Patrick	(73) Hamilton Sundstrand Corporation	(21) EP20820155.8
Walch, Patrick	(72) WU, Hailing	(47) 12.07.2023
Maldoner, Jakob	SUR, Aritra	(87) EP2020085268
(51) H02M 1/42	WU, Xin	17.06.2021
H02M 3/157	(31) 202063008107 P	(22) 09.12.2020
(11) EP3350911	(32) 10.04.2020	(54) METHOD FOR IDENTIFICATION OF
(21) EP16763295.9	(33) United States of America	LINE FILTER INDUCTANCE OF AN
(47) 12.07.2023	(51) H02M 7/483	INVERTER
(87) EP2016071473	H02M 3/07	(73) FRONIUS INTERNATIONAL GmbH
23.03.2017	H02M 7/487	(72) KREUZER, Harald
(22) 12.09.2016	H02M 1/00	ROTHBÖCK, Michael
(54) PFC MODULE FOR INTERMITTENT	(11) EP4026239	PIELER, Roland
FLOW	(21) EP19773681.2	WIESER, Stefan
(73) Tridonic GmbH & Co. KG	(47) 12.07.2023	(31) 19214654
(72) MARENT, Günter	(87) US2019050545	(32) 10.12.2019
ONDRISEK, Thomas	28.05.2020	(33) European Patent Office (EPO)
(31) 102015217629	(22) 11.09.2019	(51) H02N 2/02
(32) 15.09.2015	(54) THREE-LEVEL POWER CONVERTER	(11) EP3959808
(33) Germany	AND CONTROL METHOD	(21) EP20721745.6
(51) H02M 5/458	(73) Huawei Digital Power Technologies Co.,	(47) 12.07.2023
G01R 31/64	Ltd.	(87) IB2020053542
G01R 31/42	(72) DAI, Heping	29.10.2020
G01R 27/26	YE, Liming	(22) 15.04.2020
H02M 1/42	YE, Gang	(54) PIEZOELECTRIC INERTIA ACTUATOR
(11) EP3864745	WANG, Ning	AND METHOD OF MANUFACTURE
(21) EP18936759.2	(51) H02M 7/487	(73) Micro-Controle - Spectra Physics
(47) 12.07.2023	H02M 1/36	(72) DURAND, Eric
(87) CN2018109502	H02M 7/483	MENDES PEREIRA, Joel
16.04.2020	H02M 7/5387	(31) 201962837878 P
(22) 09.10.2018	(11) EP3767815	(32) 24.04.2019
(54) METHOD AND APPARATUS FOR	(21) EP19796051.1	(33) United States of America
CIRCUIT MONITORING	(47) 12.07.2023	(51) H02N 13/00
(73) ABB Schweiz AG	(87) CN2019083514	B25J 15/00
(72) MENG, Jinlei	07.11.2019	B25J 19/02
DENG, Haitao	(22) 19.04.2019	B65G 17/46
WANG, Bo	(54) MULTI-LEVEL INVERTER	H01H 59/00
	(73) Huawei Digital Power Technologies Co.,	A43D 111/00
	Ltd.	A41H 43/02

B23P 21/00	(32) 08.02.2016	H02P 21/14
B25J 9/16	(33) Japan	H02P 21/34
B62D 65/02	(51) H02P 8/32	H02P 23/20
H05K 13/04	H02P 8/18	(11) EP3761502
B25J 9/00	H02P 6/08	(21) EP18907609.4
B25J 9/04	F16H 59/08	(47) 12.07.2023
B25J 15/06	(11) EP3217533	(87) JP2018045544
H05K 13/02	(21) EP17158797.5	06.09.2019
(11) EP3403324	(47) 12.07.2023	(22) 11.12.2018
(21) EP17738976.4	(22) 02.03.2017	(54) ROTATING MACHINE DRIVE SYSTEM
(47) 12.07.2023	(54) ELECTROMECHANICAL	(73) Hitachi, Ltd.
(87) US2017013262	DEVICE, CONTROL METHOD OF	(72) IWAJI, Yoshitaka
20.07.2017	ELECTROMECHANICAL DEVICE,	TAKAHASHI, Akeshi
(22) 12.01.2017	AND CONTROL PROGRAM OF	SUGIMOTO, Shinji
(54) METHODS AND SYSTEMS FOR	ELECTROMECHANICAL DEVICE	(31) 2018038105
ELECTROADHESION-BASED	(73) Alps Alpine Co., Ltd.	(32) 02.03.2018
MANIPULATION IN MANUFACTURING	(72) Miyako, Ikuyasu	(33) Japan
(73) Grabit, LLC	Kimura, Wataru	(51) H02P 29/024
(72) JEAN, Ming-Feng	(31) 2016043516	G01H 1/00
KIM, Susan	(32) 07.03.2016	H02P 29/50
CHANG, Chih-Chi	(33) Japan	H02M 1/00
JURKOVIC, Dragan	(51) H02P 8/34	G01H 17/00
REGAN, Patrick Conall	(11) EP3874592	G01M 99/00
CHEN, Po Cheng	(21) EP19804622.9	H02M 7/48
WANG, Patrick	(47) 12.07.2023	H02M 1/32
TAN, Kenneth	(87) DE2019100933	H02M 7/5387
LEETTOLA, Matthew	07.05.2020	(11) EP3547514
CASLER, Richard J.	(22) 29.10.2019	(21) EP16922533.1
LIAO, Chang-Chu	(54) METHOD AND CIRCUIT ASSEMBLY	(47) 12.07.2023
FU, Howard	FOR SENSORLESS LOAD DETECTION	(87) JP2016084881
FARREN, John Mathew	IN STEPPER MOTORS	31.05.2018
PRAHLAD, Harsha	(73) Maxim Integrated Products, Inc.	(22) 25.11.2016
SMITH, Jon	(72) DWERSTEG, Bernhard	(54) POWER CONVERSION DEVICE
VARADHAN, Aishwarya	(31) 102018126954	(73) Hitachi, Ltd.
LEE, Kuo-Hung	(32) 29.10.2018	(72) SAKURAI, Naoki
(31) 201662277756 P	(33) Germany	(51) H02S 10/40
(32) 12.01.2016	(51) H02P 9/14	H02J 7/35
(33) United States of America	(11) EP3718202	(11) EP3545618
(51) H02P 5/46	(21) EP18789620.4	(21) EP17816917.3
H02P 5/50	(47) 12.07.2023	(47) 12.07.2023
H02P 21/13	(87) EP2018078585	(87) FR2017053230
H02P 5/74	06.06.2019	31.05.2018
(11) EP3742599	(22) 18.10.2018	(22) 23.11.2017
(21) EP20186005.3	(54) METHOD FOR OPERATING A DRIVE	(54) AUTONOMOUS AND MOVABLE
(47) 12.07.2023	DEVICE FOR A MOTOR VEHICLE, AND	DEVICE FOR GENERATING, STORING
(22) 06.02.2015	CORRESPONDING DRIVE DEVICE	AND DISTRIBUTING ELECTRICAL
(54) POWER SYSTEM AND CONTROL	FOR A MOTOR VEHICLE	POWER
METHOD OF A POWER SYSTEM	(73) Audi AG	(73) Solarplexus
(73) Samsung Electronics Co., Ltd.	(72) STRASSER, Roman	(72) NAMY, Nicolas
(72) KIM, Sun Jin	(31) 102017221386	ORRIOLS, Alain
CHO, Je Hyung	(32) 29.11.2017	(31) 1661453
LEE, Yong Woon	(33) Germany	(32) 24.11.2016
BODROV, Alexey	(51) H02P 21/18	(33) France
(31) 20140015703	H02P 23/12	(51) H02S 20/00
(32) 11.02.2014	(11) EP2806555	(11) EP3793085
(33) Korea (Republic)	(21) EP14305690.1	(21) EP20193489.0
(51) H02P 6/12	(47) 12.07.2023	(47) 12.07.2023
H02K 29/08	(22) 12.05.2014	(22) 28.08.2020
H02P 29/024	(54) Method for determining the position and	(54) FLOATING PHOTOVOLTAIC
H02P 6/16	speed of a rotor of a synchronous electric	STRUCTURE
(11) EP3217532	machine by means of status observers	(73) Commissariat à l'énergie atomique et aux
(21) EP17154752.4	(73) IFP Energies nouvelles	énergies alternatives
(47) 12.07.2023	(72) Dib, Wissam	(72) MESSAOUDI, Paul
(22) 06.02.2017	(31) 1354520	LEFILLASTRE, Paul
(54) MOTOR DRIVE DEVICE	(32) 21.05.2013	GERRITSEN, Eric
(73) ROHM CO., LTD.	(33) France	(31) 1910148
(72) TAKAYAMA, Yohei	(51) H02P 25/18	(32) 13.09.2019
(31) 2016021716		(33) France

(51) H02S 20/23 E04D 13/10 H02S 40/00	(87) US2019035941 19.12.2019	(54) ADJUSTABLE POWER RAIL MULTIPLEXING
(11) EP3985864 (21) EP21170739.3 (47) 12.07.2023 (22) 27.04.2021 (54) SNOW HOOK FOR SOLAR PANELS	(22) 07.06.2019 (54) MULTIPLE CHIP SYNCHRONIZATION VIA SINGLE PIN MONITORING OF AN EXTERNAL TIMING CAPACITOR	(73) Qualcomm Incorporated (72) CAO, Lipeng VILANGUDIPITCHAI, Ramaprasath NARAYANAN, Venkatasubramanian ZAFAR, Bilal KUMAR, Dorav LUO, Xi
(73) Apak, Yavuz (72) Apak, Yavuz (31) 13422020 (32) 19.10.2020 (33) Switzerland	(73) Texas Instruments Incorporated (72) GEWAX, Lawrence James TORRES, Hector JORDANGER, Ricky Dale ZIEMER, Kevin William	(31) 201514981183 (32) 28.12.2015 (33) United States of America
(51) H02S 30/10 E04D 13/18 H02S 20/23	(31) 201816190871 201862685650 P	(51) H03L 7/085 H03L 7/087 H03L 7/093 H03L 7/099
(11) EP3240188 (21) EP15873283.4 (47) 12.07.2023 (87) JP2015086258 30.06.2016 (22) 25.12.2015 (54) SOLAR CELL MODULE AND SOLAR CELL ARRAY USING SAME	(32) 14.11.2018 15.06.2018 (33) United States of America United States of America	(11) EP3975430 (21) EP21193062.3 (47) 12.07.2023 (22) 25.08.2021 (54) HIGH-RESOLUTION AND AGILE FREQUENCY MEASUREMENT
(73) Kyocera Corporation (72) NISHIO, Yuta (31) 2014263783 (32) 26.12.2014 (33) Japan	(31) 201816190871 201862685650 P	(73) INTEL Corporation (72) LEVINGER, Run SHUMAKER, Evgeny DEGANI, Ofir BERSHANSKY, Sergey
(51) H02S 50/10 H02S 50/15	(11) EP3804138 (21) EP19730883.6 (47) 12.07.2023 (87) GB2019051465 05.12.2019	(31) 202017033122 (32) 25.09.2020 (33) United States of America
(11) EP3863174 (21) EP19873581.3 (47) 12.07.2023 (87) CN2019110862 23.04.2020 (22) 12.10.2019 (54) SOLAR DETECTION MODULE INTEGRATED INTO A SOLAR PANEL	(22) 29.05.2019 (54) A CIRCUIT AND DEVICE INCLUDING A TRANSISTOR AND DIODE	(51) H03M 13/11 H03M 13/37
(73) PV Guider Consultancy Co., Ltd. (72) LIN, Ching-chieh (31) 201811219710 (32) 19.10.2018 (33) China	(73) SEARCH FOR THE NEXT LTD (72) SUMMERLAND, David KNIGHT, Luke LIGHT, Roger	(11) EP3531561 (21) EP16925120.4 (47) 12.07.2023 (87) CN2016112463 05.07.2018 (22) 27.12.2016 (54) LAYERED MIN-SUM DECODING FOR QC-LDPC CODES ACCORDING TO INCREASING ROW WEIGHTS
(51) H03K 17/10 H02M 5/293	(31) 201817199 201816688 201808960 201808840	(73) Huawei Technologies Co., Ltd. (72) WEI, Yuejun MA, Liang
(11) EP3692636 (21) EP18896444.9 (47) 12.07.2023 (87) US2018059564 04.07.2019 (22) 07.11.2018 (54) ELECTRONIC SWITCH AND DIMMER	(32) 22.10.2018 12.10.2018 31.05.2018 30.05.2018 (33) United Kingdom United Kingdom United Kingdom United Kingdom	(51) H03M 13/29 H04L 1/00 H03M 13/11
(73) Intelesol, LLC (72) RODRIGUEZ, Harry TELEFUS, Mark (31) 201762611460 P (32) 28.12.2017 (33) United States of America	(51) H03K 17/74 H03K 17/78 G01J 1/44	(11) EP3713096 (21) EP18878903.6 (47) 12.07.2023 (87) CN2018115531 23.05.2019 (22) 15.11.2018 (54) METHOD AND DEVICE FOR DECODING STAIRCASE CODE, AND STORAGE MEDIUM
(51) H03K 17/14 H03K 4/502 H03K 17/0416 H03K 17/56 H03K 17/62 H03K 17/22	(11) EP3657679 (21) EP18207598.6 (47) 12.07.2023 (22) 21.11.2018 (54) ELECTRIC CIRCUIT ARRANGEMENT TO DETERMINE A LEVEL OF AN EXCESS BIAS VOLTAGE OF A SINGLE PHOTON AVALANCHE DIODE	(73) ZTE Corporation (72) WANG, Weiming (31) 201711133350 (32) 15.11.2017 (33) China
(11) EP3807994 (21) EP19819136.3 (47) 12.07.2023	(73) ams International AG (72) Lilic, Nenad	(51) H04B 1/04 (11) EP3496279 (21) EP18210409.1 (47) 12.07.2023 (22) 05.12.2018 (54) SYSTEM AND METHOD FOR A RADIO FREQUENCY FILTER
	(51) H03K 19/00 (11) EP3398254 (21) EP16826507.2 (47) 12.07.2023 (87) US2016066102 06.07.2017 (22) 12.12.2016	

(73) Infineon Technologies AG	(21) EP17804006.9	(54) MEDIUM ACCESS CONTROL (MAC)
(72) TIMME, Hans-Jörg	(47) 12.07.2023	CONTROL ELEMENT SIGNALING
SCHMALZL, Stefan	(87) SE2017051133	FOR MULTI-TRANSMISSION POINT/
PFANN, Peter	07.06.2018	MULTI PANEL PHYSICAL DOWNLINK
BAUDER, Rüdiger	(22) 15.11.2017	SHARED CHANNEL TRANSMISSION
(31) 201862641664 P	(54) UPLINK HOPPING PATTERN FOR	(73) Telefonaktiebolaget LM Ericsson (publ)
201762595898 P	CONTENTION-BASED RELIABLE	(72) GAO, Shiwei
(32) 12.03.2018	COMMUNICATION	MURUGANATHAN, Siva
07.12.2017	(73) Telefonaktiebolaget LM Ericsson (PUBL)	FRENNE, Mattias
(33) United States of America	(72) ARSHAD, Malik Wahaj	MÄÄTTANEN, Helka-Liina
United States of America	WIKSTRÖM, Gustav	(31) 201962799898 P
(51) H04B 1/04	ZOU, Zhenhua	(32) 01.02.2019
(11) EP4068636	(31) 201662427644 P	(33) United States of America
(21) EP22157763.8	(32) 29.11.2016	(51) H04B 7/0413
(47) 12.07.2023	(33) United States of America	H03M 13/29
(22) 21.02.2022	(51) H04B 5/00	H04L 25/03
(54) METHOD AND TRANSMITTER FOR	A61B 5/00	H04L 27/26
TRANSMITTING SIGNALS	(11) EP3566320	H03M 13/00
(73) u-blox AG	(21) EP17825254.0	(11) EP3780407
(72) Smith, Graham	(47) 12.07.2023	(21) EP20197388.0
Ronan, Robert	(87) EP2017084572	(47) 12.07.2023
Beamish, Norman	12.07.2018	(22) 15.03.2016
(31) 202117206640	(22) 24.12.2017	(54) POLARIZED SPRECTRALLY-
(32) 19.03.2021	(54) DEVICE FOR WIRELESS	PRECODED TRANSMISSION
(33) United States of America	TRANSMISSION OF DATA AND/OR	(73) HUAWEI TECHNOLOGIES CO., LTD.
(51) H04B 1/16	POWER	(72) POPOVIC, Branislav M.
H04H 40/72	(73) Koninklijke Philips N.V.	PITAVAL, Renaud-Alexandre
H04H 40/81	(72) KAHLMAN, Josephus, Arnoldus,	(51) H04B 7/0417
(11) EP3000182	Henricus, Maria	H04L 5/00
(21) EP14801644.7	LAMBERT, Nicolaas	H04B 7/06
(47) 12.07.2023	WOERLEE, Pierre, Hermanus	(11) EP3692643
(87) US2014039206	(31) 17150246	(21) EP18792517.7
27.11.2014	(32) 04.01.2017	(47) 12.07.2023
(22) 22.05.2014	(33) European Patent Office (EPO)	(87) IB2018057656
(54) METHOD AND CIRCUIT FOR SIGNAL	(51) H04B 5/02	11.04.2019
QUALITY ESTIMATION AND CONTROL	G06K 19/00	(22) 02.10.2018
(73) Texas Instruments Incorporated	G06F 21/00	(54) EFFICIENT SRS RESOURCE
(72) MURALI, Sriram	G06Q 20/32	INDICATION METHODS
VISHWAKARMA, Sanjay	G06Q 20/34	(73) Telefonaktiebolaget LM Ericsson (publ)
GUPTA, Pankaj	G06K 7/10	(72) HARRISON, Robert Mark
BALAKRISHNAN, Jaiganesh	G06C 9/00	PETERSSON, Sven
(31) 201313899868	H04L 9/08	FAXÉR, Sebastian
(32) 22.05.2013	G07C 9/00	NILSSON, Andreas
(33) United States of America	H04W 12/08	(31) 201762567156 P
(51) H04B 1/44	H04W 12/12	(32) 02.10.2017
(11) EP3457577	(11) EP3326296	(33) United States of America
(21) EP18186601.3	(21) EP16829485.8	(51) H04B 7/0456
(47) 12.07.2023	(47) 12.07.2023	H04B 7/06
(22) 31.07.2018	(87) AU2016050420	H04B 7/0452
(54) METHOD TO BUILD ASYMMETRICAL	02.02.2017	(11) EP3622630
TRANSMIT/RECEIVE SWITCH	(22) 27.05.2016	(21) EP18711173.7
WITH 90 DEGREES IMPEDANCE	(54) WIRELESS ACCESS TAG	(47) 12.07.2023
TRANSFORMATION SECTION	DUPLICATION SYSTEM AND METHOD	(87) IB2018051291
(73) Integrated Device Technology, Inc.	(73) Info Wise Limited	15.11.2018
(72) Yanduru, Naveen Krishna	(72) YORKSTON, Simon	(22) 28.02.2018
Zihir, Samet	(31) 2015902950	(54) VIRTUALIZED MASSIVE MIMO IN
Kanar, Tumay	(32) 24.07.2015	MULTI-OPERATOR WIRELESS
(31) 201715825736	(33) Australia	NETWORKS
201762560173 P	(51) H04B 7/024	(73) Telefonaktiebolaget LM Ericsson (publ)
201762559875 P	H04B 7/06	(72) BOUDREAU, Gary David
(32) 29.11.2017	H04L 5/00	LIANG, Ben
18.09.2017	(11) EP3918718	SOLTANIZADEH, Mohammadmoein
18.09.2017	(21) EP20705521.1	SEYEDMEHDI, Hossein
(33) United States of America	(47) 12.07.2023	(31) 201715851318
United States of America	(87) IB2020050760	201762505170 P
United States of America	06.08.2020	(32) 21.12.2017
(51) H04B 1/7143	(22) 30.01.2020	12.05.2017
(11) EP3549270		(33) United States of America

United States of America	201762459817 P	KOLEV Dimitar
(51) H04B 7/06	(32) 18.01.2018	(31) 2017012949
H04B 7/04	24.03.2017	(32) 27.01.2017
H04L 27/00	14.09.2017	(33) Japan
(11) EP4002715	01.02.2017	(51) H04B 10/27
(21) EP22152057.0	25.04.2017	(11) EP3963857
(47) 12.07.2023	14.07.2017	(21) EP20723848.6
(22) 03.11.2016	09.11.2017	(47) 12.07.2023
(54) DATA TRANSMISSION METHOD, USER EQUIPMENT AND NETWORK DEVICE	16.02.2017	(87) EP2020062220
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(33) United States of America	12.11.2020
(72) XU, Hua	United States of America	(22) 01.05.2020
TANG, Hai	United States of America	(54) HIGHLY SECURE NETWORK AND METHOD FOR CONSTRUCTING A HIGHLY SECURE NETWORK
YANG, Ning	United States of America	(73) OneFiber Interconnect Germany GmbH
(51) H04B 7/06	United States of America	(72) SCHMIDT, Frank
H04B 7/08	United States of America	KREMPER, Klaus
H04B 7/0404	(51) H04B 7/15	FECHT, Holger
H04W 88/02	H04W 40/22	(31) 102019111553
H04B 17/27	(11) EP2684395	(32) 03.05.2019
H04B 17/318	(21) EP12755007.7	(33) Germany
(11) EP3744121	(47) 12.07.2023	(51) H04H 20/63
(21) EP19768250.3	(87) IL2012050082	H04N 21/41
(47) 12.07.2023	13.09.2012	H04N 21/426
(87) KR2019003041	(22) 08.03.2012	H04N 21/436
19.09.2019	(54) MOVING CELLULAR COMMUNICATION SYSTEM OPERATIVE IN AN EMERGENCY MODE	H04N 21/438
(22) 15.03.2019	(73) Elta Systems Ltd.	H04N 21/4402
(54) METHODS OF RADIO FRONT-END BEAM MANAGEMENT FOR 5G TERMINALS	(72) SHOSHAN, Yaakov	H04N 21/4363
(73) Samsung Electronics Co., Ltd.	SCHWARTZ, Adi	(11) EP3560119
(72) NG, Boon Loong	SHERMAN, Itay	(21) EP17830065.3
MO, Jianhua	WEINSBERG, Udi	(47) 12.07.2023
(31) 201916272900	(31) 21804612	(87) US2017067420
201862740571 P	201161451344 P	28.06.2018
201862716577 P	(32) 12.02.2012	(22) 19.12.2017
201862643518 P	10.03.2011	(54) DISTRIBUTED INDOOR SMART ANTENNA SYSTEM FOR OVER-THE-AIR TELEVISION RECEPTION
(32) 11.02.2019	(33) Israel	(73) Dish Technologies L.L.C.
03.10.2018	United States of America	(72) PETRUZZELLI, Edmund, F.
09.08.2018	(51) H04B 7/185	(31) 201615389274
15.03.2018	H04L 1/18	(32) 22.12.2016
(33) United States of America	H04B 7/195	(33) United States of America
United States of America	(11) EP3288192	(51) H04L 1/00
United States of America	(21) EP15889856.9	(11) EP3982568
United States of America	(47) 12.07.2023	(21) EP21198157.6
(51) H04B 7/06	(87) JP2015062239	(47) 12.07.2023
H04W 24/10	27.10.2016	(22) 22.09.2021
H04L 5/00	(22) 22.04.2015	(54) RATE ADAPTATION
(11) EP3529913	(54) SATELLITE COMMUNICATIONS SYSTEM AND SATELLITE COMMUNICATIONS GROUND APPARATUS	(73) Nokia Technologies Oy
(21) EP18747640.3	(73) Mitsubishi Electric Corporation	(72) AIT AOUDIA, Faycal
(47) 12.07.2023	(72) MOTOYOSHI, Katsuyuki	HOYDIS, Jakob
(87) KR2018001395	(31) 20205925	(31) 20205925
09.08.2018	(32) 24.09.2020	(32) 24.09.2020
(22) 01.02.2018	(33) Finland	(33) Finland
(54) METHOD AND APPARATUS FOR CHANNEL STATE INFORMATION REPORT IN WIRELESS COMMUNICATION SYSTEM	(51) H04B 10/118	(51) H04L 1/00
(73) Samsung Electronics Co., Ltd.	B64G 3/00	(11) EP3701652
(72) ONGGOSANUSI, Eko	H04B 10/07	(21) EP18782238.2
GUO, Li	(11) EP3576318	(47) 12.07.2023
(31) 201815874692	(21) EP18745058.0	(87) US2018049551
201762476277 P	(47) 12.07.2023	02.05.2019
201762558586 P	(87) JP2018001562	(22) 05.09.2018
201762453284 P	02.08.2018	(54) TECHNIQUES AND APPARATUSES FOR MODULATION ORDER CONTROL FOR AN UPLINK CHANNEL
201762489695 P	(22) 19.01.2018	(73) Qualcomm Incorporated
201762532931 P	(54) SPATIAL OPTICAL COMMUNICATION DEVICE AND METHOD	(72) HUANG, Yi
201762583817 P	(73) National Institute of Information and Communications Technology	WANG, Renqiu
	(72) TOYOSHIMA Morio	PARK, Seyong

<p>GAAL, Peter CHEN, Wanshi (31) 201816121173 201762576041 P (32) 04.09.2018 23.10.2017 (33) United States of America United States of America</p> <hr/> <p>(51) H04L 1/00 (11) EP3709541 (21) EP19220152.3 (47) 12.07.2023 (22) 17.12.2014 (54) DATA RECEIVING METHOD AND DEVICE, AND DATA SENDING METHOD AND DEVICE (73) Huawei Technologies Co., Ltd. (72) WANG, Tongtong WANG, Xinyuan YANG, Wenbin (31) PCT/CN2013/090803 PCT/CN2013/089697 (32) 28.12.2013 17.12.2013 (33) World Intellectual Property Office (WIPO) World Intellectual Property Office (WIPO)</p> <hr/> <p>(51) H04L 1/00 (11) EP3930233 (21) EP21190785.2 (47) 12.07.2023 (22) 06.06.2017 (54) METHOD FOR DATA TRANSMISSION BY MAPPING AND RELATED PRODUCT (73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. (72) LIN, Yanan</p> <hr/> <p>(51) H04L 1/00 H04B 7/06 H04L 5/14 H04L 5/00 (11) EP3665804 (21) EP18862573.5 (47) 12.07.2023 (87) CN2018108610 04.04.2019 (22) 29.09.2018 (54) UCI RESOURCE DETERMINATION FOR CSI REPORTING (73) MediaTek Inc. (72) YANG, Weidong TSAI, Lung-Sheng (31) 201816143837 201762565223 P (32) 27.09.2018 29.09.2017 (33) United States of America United States of America</p> <hr/> <p>(51) H04L 1/00 H04L 1/18 (11) EP3714563 (21) EP18877512.6 (47) 12.07.2023 (87) CN2018109234 23.05.2019 (22) 02.10.2018 (54) TECHNIQUES AND APPARATUSES FOR HYBRID AUTOMATIC REPEAT</p>	<p>REQUEST DESIGN OF POLAR CODES (54) DATA SEGMENTATION METHOD, AND FOR ULTRA-RELIABLE LOW LATENCY COMMUNICATIONS (73) QUALCOMM Incorporated (72) WU, Liangming XU, Changlong CHEN, Kai LI, Jian XU, Hao JIANG, Jing (31) PCT/CN2017/111835 (32) 20.11.2017 (33) World Intellectual Property Office (WIPO)</p> <hr/> <p>(51) H04L 1/00 H04L 1/18 (11) EP3794754 (21) EP19728279.1 (47) 12.07.2023 (87) US2019032814 21.11.2019 (22) 17.05.2019 (54) INDICATING MEDIUM ACCESS CONTROL (MAC)-CONTROL ELEMENT (CE) INFORMATION (73) QUALCOMM INCORPORATED (72) GAAL, Peter AKKARAKARAN, Sony LUO, Tao (31) 201916414679 201862673800 P (32) 16.05.2019 18.05.2018 (33) United States of America United States of America</p> <hr/> <p>(51) H04L 1/00 H04L 1/18 H04L 5/00 H04W 52/14 H04W 52/38 H04L 1/08 H04W 72/23 H04L 1/1867 (11) EP3776954 (21) EP19720729.3 (47) 12.07.2023 (87) US2019026103 10.10.2019 (22) 05.04.2019 (54) TRANSPORT BLOCK REPETITION HANDLING FOR DOWNLINK AND UPLINK TRANSMISSIONS (73) QUALCOMM Incorporated (72) HOSSEINI, Seyedkianoush CHEN, Wanshi (31) 201916375842 201862654297 P (32) 04.04.2019 06.04.2018 (33) United States of America United States of America</p> <hr/> <p>(51) H04L 1/00 H04W 72/12 H04W 72/04 H04W 28/06 (11) EP3893417 (21) EP21176956.7 (47) 12.07.2023 (22) 23.11.2016</p>	<p>(54) DATA SEGMENTATION METHOD, AND TERMINAL DEVICE AND NETWORK DEVICE (73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD. (72) LIN, Yanan</p> <hr/> <p>(51) H04L 1/08 H04L 5/00 (11) EP3785388 (21) EP19727731.2 (47) 12.07.2023 (87) IB2019053354 31.10.2019 (22) 23.04.2019 (54) TIME-DOMAIN ALLOCATION FOR REPETITIONS (73) Telefonaktiebolaget LM Ericsson (publ.) (72) DIACHINA, John Walter KITTIKHOKECHAI, Kittipong FRÖBERG OLSSON, Jonas WIKSTRÖM, Gustav (31) 201862661552 P (32) 23.04.2018 (33) United States of America</p> <hr/> <p>(51) H04L 1/16 H04L 1/18 H04W 72/12 H04W 74/08 H04L 5/00 H04W 72/04 H04L 1/12 H04L 1/00 H04L 1/1607 H04L 1/1867 H04L 1/1829 H04L 1/1822 (11) EP3817494 (21) EP19846021.4 (47) 12.07.2023 (87) KR2019010053 13.02.2020 (22) 09.08.2019 (54) METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING WIRELESS SIGNAL IN WIRELESS COMMUNICATION SYSTEM (73) LG Electronics Inc. (72) KIM, Seonwook PARK, Hanjun YANG, Suckchel (31) 20190036829 20190017657 20190009388 20190004181 201862716978 P (32) 29.03.2019 15.02.2019 24.01.2019 11.01.2019 09.08.2018 (33) Korea (Republic) Korea (Republic) Korea (Republic) Korea (Republic) United States of America</p> <hr/> <p>(51) H04L 1/18 (11) EP4038794 (21) EP20792726.0</p>
--	---	---

(47) 12.07.2023	(22) 27.07.2017	(11) EP3568940
(87) IB2020059279 08.04.2021	(54) WIRELESS COMMUNICATION METHOD, TERMINAL DEVICE AND NETWORK DEVICE	(21) EP18700675.4
(22) 02.10.2020	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(47) 12.07.2023
(54) HARQ CODEBOOK CONSTRUCTION WITH FEEDBACK ENABLING/ DISABLING PER HARQ PROCESS	(72) TANG, Hai	(87) EP2018051029 19.07.2018
(73) Telefonaktiebolaget LM Ericsson (publ)	(51) H04L 1/1822	(22) 16.01.2018
(72) LIN, Xingqin	H04L 5/00	(54) COMMON PDCCH CONFIGURATION
MURUGANATHAN, Siva	H04L 1/00	(73) Telefonaktiebolaget LM Ericsson (PUBL)
GAO, Shiwei	H04L 1/1867	(72) KOORAPATY, Havish
BALDEMAIR, Robert	(11) EP2837124	CHENG, Jung-Fu
(31) 201962910939 P	(21) EP13776119.3	FALAHATI, Sorour
(32) 04.10.2019	(47) 12.07.2023	BALDEMAIR, Robert
(33) United States of America	(87) KR2013002284	PARKVALL, Stefan
(51) H04L 1/18	17.10.2013	(31) 201762446839 P
H04L 1/00	(22) 20.03.2013	(32) 16.01.2017
H04B 7/06	(54) SOFT BUFFER PROCESSING METHOD AND DEVICE IN TDD SYSTEMS	(33) United States of America
H04B 7/0404	(73) Samsung Electronics Co., Ltd.	(51) H04L 5/00
H04W 52/50	(72) SUN, Chengjun	H04B 7/06
H04W 52/14	LI, Yingyang	(11) EP2383918
H04W 52/42	(31) 201210273508	(21) EP10735648.7
H04W 52/22	201210107431	(47) 12.07.2023
H04B 7/0408	(32) 02.08.2012	(87) JP2010000499 05.08.2010
H04W 52/48	12.04.2012	(22) 28.01.2010
H04W 74/08	(33) China	(54) REFERENCE SIGNAL ARRANGEMENT METHOD AND WIRELESS COMMUNICATION BASE STATION APPARATUS
H04W 52/36	China	(73) Sun Patent Trust
H04W 52/24	(51) H04L 1/1825	(72) NISHIO, Akihiko
(11) EP3665814	H04L 1/1867	NAKAO, Seigo
(21) EP18753172.8	(11) EP3507927	IMAMURA, Daichi
(47) 12.07.2023	(21) EP17764916.7	(31) 2009018284
(87) EP2018071788 14.02.2019	(47) 12.07.2023	(32) 29.01.2009
(22) 10.08.2018	(87) JP2017029896 08.03.2018	(33) Japan
(54) RETRANSMISSION OF RANDOM ACCESS MESSAGE	(22) 22.08.2017	(51) H04L 5/00
(73) Sony Group Corporation	(54) COMMUNICATION DEVICE AND COMMUNICATION METHOD	H04B 7/06
(72) WONG, Shin Horng	(73) Sony Group Corporation	(11) EP3504828
LJUNG, Rickard	(72) SUGAYA, Shigeru	(21) EP17761650.5
BEALE, Martin	TANAKA, Yusuke	(47) 12.07.2023
PRIYANTO, Basuki	(31) 2016172432	(87) US2017047845 01.03.2018
(31) 1730210	(32) 05.09.2016	(22) 21.08.2017
(32) 11.08.2017	(33) Japan	(54) MAPPING BETWEEN A CONTROL BEAM AND A DATA CHANNEL BEAM
(33) Sweden	(51) H04L 5/00	(73) QUALCOMM Incorporated
(51) H04L 1/18	(11) EP3744039	(72) SUBRAMANIAN, Sundar
H04L 1/16	(21) EP19705161.8	SADIQ, Bilal
(11) EP3557801	(47) 12.07.2023	LI, Junyi
(21) EP17890434.8	(87) EP2019053352 22.08.2019	ABEDINI, Navid
(47) 12.07.2023	(22) 12.02.2019	ISLAM, Muhammad Nazmul
(87) CN2017120275 12.07.2018	(54) TRANSMISSION OF SIGNALING INDICATION FOR INTRA- UE PUNCTURED UPLINK TRANSMISSIONS	(31) 201715426878 201662379208 P
(22) 29.12.2017	(73) Nokia Technologies Oy	(32) 07.02.2017
(54) SEGMENT RETRANSMISSION METHOD AND DEVICE	(72) LI, Zexian	24.08.2016
(73) Huawei Technologies Co., Ltd.	SINGH, Bikramjit	(33) United States of America
(72) ZENG, Qinghai	PEDERSEN, Klaus Ingemann	United States of America
LIU, Xing	LASELVA, Daniela	(51) H04L 5/00
HUANG, Qufang	FREDERIKSEN, Frank	H04L 1/00
(31) 201710008201	UUSITALO, Mikko Aleksii	H04W 72/04
(32) 05.01.2017	YU, Ling	H04W 72/12
(33) China	(31) 201815932253	(11) EP3694168
(51) H04L 1/18	(32) 16.02.2018	(21) EP18906809.1
H04W 28/10	(33) United States of America	(47) 12.07.2023
H04L 1/08	(51) H04L 5/00	(87) CN2018087924 29.08.2019
H04L 1/22		(22) 22.05.2018
(11) EP3926873		
(21) EP21190787.8		
(47) 12.07.2023		

(54) DYNAMIC CONFIGURATION METHOD, TERMINAL DEVICE, NETWORK DEVICE AND COMPUTER STORAGE MEDIUM	H04W 4/10 H04W 72/02 H04W 4/40 H04W 76/14	H04W 52/02 (11) EP3661094 (21) EP18837879.8 (47) 12.07.2023
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	H04W 76/23 G06F 21/43	(87) CN2018096596 31.01.2019
(72) CHEN, Wenhong	H04L 67/61	(22) 23.07.2018
(31) PCT/CN2018/077062	H04L 69/321	(54) BASE STATION, USER EQUIPMENT, AND RELATED METHOD
(32) 23.02.2018	(11) EP3968560	(73) Sharp Kabushiki Kaisha
(33) World Intellectual Property Office (WIPO)	(21) EP21205171.8	FG Innovation Company Limited
(51) H04L 5/00	(47) 12.07.2023	(72) CHANG, Ningjuan
H04L 1/00	(22) 15.05.2017	ZHANG, Chongming
H04W 72/12	(54) IMPROVED SUPPORT OF QUALITY OF SERVICE FOR V2X TRANSMISSIONS	LIU, Renmao
H04W 72/04	(73) Panasonic Intellectual Property Corporation of America	(31) 201710626984
(11) EP3738266	(72) BASU MALLICK, Prateek	(32) 27.07.2017
(21) EP19753952.1	HORI, Takako	(33) China
(47) 12.07.2023	LOEHR, Joachim	(51) H04L 5/00
(87) KR2019001871	(31) 16179995	H04W 72/04
22.08.2019	(32) 18.07.2016	H04W 72/12
(22) 15.02.2019	(33) European Patent Office (EPO)	(11) EP3422624
(54) REFERENCE SIGNAL CONFIGURATION IN A TELECOMMUNICATION SYSTEM	(51) H04L 5/00	(21) EP17755831.9
(73) Samsung Electronics Co., Ltd.	H04W 28/02	(47) 12.07.2023
(72) Qi, Yinan	(11) EP3766281	(87) CN2017074671
(31) 201802543	(21) EP19714911.5	31.08.2017
(32) 16.02.2018	(47) 12.07.2023	(22) 24.02.2017
(33) United Kingdom	(87) US2019022018	(54) METHOD AND DEVICE FOR TRANSMITTING SOUNDING REFERENCE SIGNAL
(51) H04L 5/00	19.09.2019	(73) Baicells Technologies Co. Ltd.
H04L 27/26	(22) 13.03.2019	(72) ZHOU, Mingyu
(11) EP3683977	(54) TECHNIQUES FOR SIGNALING QOS CLASS INDICATORS	(31) 201610109196
(21) EP17925244.0	(73) QUALCOMM Incorporated	(32) 26.02.2016
(47) 12.07.2023	(72) CHEN, Wanshi	(33) China
(87) JP2017033359	SARKIS, Gabi	(51) H04L 5/00
21.03.2019	HOSSEINI, Seyedkianoush	H04W 72/23
(22) 14.09.2017	LI, Chih-Ping	(11) EP3813432
(54) USER TERMINAL	GAAL, Peter	(21) EP19821531.1
(73) NTT DOCOMO, INC.	JIANG, Jing	(47) 12.07.2023
(72) TAKEDA, Kazuaki	(31) 201916351184	(87) CN2019092287
NAGATA, Satoshi	201862642942 P	26.12.2019
KAKISHIMA, Yuichi	(32) 12.03.2019	(22) 21.06.2019
SAITO, Keisuke	14.03.2018	(54) BANDWIDTH PART PROCESSING METHOD, TERMINAL DEVICE AND NETWORK DEVICE
(51) H04L 5/00	(33) United States of America	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
H04L 27/26	United States of America	(72) TANG, Hai
H04W 72/04	(51) H04L 5/00	(31) 201810646692
H04L 5/14	H04W 48/10	(32) 21.06.2018
(11) EP3471310	(11) EP3771130	(33) China
(21) EP17810449.3	(21) EP19782049.1	(51) H04L 5/14
(47) 12.07.2023	(47) 12.07.2023	H04L 5/00
(87) KR2017001375	(87) CN2019076262	H04W 74/00
14.12.2017	10.10.2019	(11) EP3713132
(22) 08.02.2017	(22) 27.02.2019	(21) EP18877809.6
(54) METHOD FOR TRANSMITTING AND RECEIVING PHASE NOISE COMPENSATION REFERENCE SIGNAL IN WIRELESS COMMUNICATION SYSTEM, AND APPARATUS THEREFOR	(54) ACCESS CONTROL INFORMATION TRANSMISSION METHOD, APPARATUS, AND NETWORK SIDE DEVICE	(47) 12.07.2023
(73) LG Electronics Inc.	(73) Datang Mobile Communications Equipment Co., Ltd.	(87) CN2018115427
(72) LEE, Kilbom	(72) FAN, Jiangsheng	23.05.2019
KIM, Kyuseok	LIANG, Jing	(22) 14.11.2018
AHN, Minki	FU, Jing	(54) METHOD AND DEVICE FOR CONFIGURING RANDOM ACCESS CHANNEL TRANSMISSION RESOURCE
CHUNG, Jaehoon	(31) 201810299787	(73) FG INNOVATION COMPANY LIMITED
(31) 201662347640 P	(32) 04.04.2018	Sharp Kabushiki Kaisha
(32) 09.06.2016	(33) China	(72) LUO, Chao
(33) United States of America	(51) H04L 5/00	ZHANG, Meng
(51) H04L 5/00	H04W 72/00	
H04W 4/00	H04W 68/02	



(31) 201711133700	(54) A METHOD FOR MANAGING DATA AND STORING THEM IN BLOCKCHAIN	MUNSHI, Vyom P.
(32) 15.11.2017		WANG, Chuang
(33) China	(73) MYLIME S.R.L.	SHANKAR, Chetan S.
(51) H04L 7/033	(72) MOLINARI, Antonio	REDDY, Chandan R.
H04L 25/14	BRAVO, Luca	ZAKHAROV, Pavel
(11) EP3796592	REBOA, Alfredo	CHANDRASEKARAN, Ashok
(21) EP20197854.1	(31) 201900025777	LOUNSBERRY, Brian S.
(47) 12.07.2023	201900010443	(31) 201815920832
(22) 23.09.2020	(32) 30.12.2019	(32) 14.03.2018
(54) SIGNAL RECEIVING DEVICE AND METHOD FOR RECOVERING CLOCK AND CALIBRATION OF THE DEVICE	28.06.2019	(33) United States of America
(73) Samsung Electronics Co., Ltd.	(33) Italy	(51) H04L 9/32
Research & Business Foundation	Italy	(11) EP3652886
SungKyunKwan University	(51) H04L 9/06	(21) EP18731320.0
(72) LEE, Jae Youl	G09C 1/00	(47) 12.07.2023
CHUN, Jung-Hoon	H04L 9/14	(87) US2018034804
LIM, Hyun Wook	(11) EP3480999	17.01.2019
KIM, Tae-Jin	(21) EP18204262.2	(22) 29.05.2018
(31) 20190116627	(47) 12.07.2023	(54) BLOCKCHAIN
(32) 23.09.2019	(22) 05.11.2018	(73) Microsoft Technology Licensing, LLC
(33) Korea (Republic)	(54) CUSTOMIZABLE ENCRYPTION/ DECRYPTION ALGORITHM	(72) BASU, Soumya
(51) H04L 9/00	(73) Harris Global Communications, Inc.	ZHOU, Lidong
H04L 9/06	(72) Kurdziel, Michael Thomas	ROBERTS, Michael, Lowell
H04L 9/08	Farris, Steven M.	VENKATESAN, Ramarathnam
(11) EP3891923	Kaminsky, Alan	SETTY, Srinath
(21) EP20754583.1	Stafford, Daniel F.	(31) 201715727522
(47) 12.07.2023	Lukowiak, Marcin	201762532933 P
(87) US2020043894	Soldavini, Stephanie	(32) 06.10.2017
19.08.2021	Radziszowski, Stanislaw P.	14.07.2017
(22) 28.07.2020	(31) 201715805925	(33) United States of America
(54) SECURE MULTI-PARTY REACH AND FREQUENCY ESTIMATION	(32) 07.11.2017	United States of America
(73) Google LLC	(33) United States of America	(51) H04L 9/32
(72) MA, Sheng	(51) H04L 9/08	G06F 15/16
KOEHLER, James, Robert	G09C 1/00	G06F 21/00
ASUNCION, Arthur	G06F 16/242	G06K 5/00
BOOK, Laura, Grace	(11) EP3796290	H04W 12/06
KREUTER, Benjamin, R.	(21) EP19804444.8	G06F 15/76
WRIGHT, Craig	(47) 12.07.2023	G06Q 20/30
SKVORTSOV, Evgeny	(87) JP2019019092	G06F 21/44
HUANG, Xichen	21.11.2019	H04L 9/08
PENG, Jiayu	(22) 14.05.2019	H04L 9/40
(31) 202063002138 P	(54) SECRET CROSS TABULATION SYSTEM, SECRET CALCULATION DEVICE, SECRET CROSS TABULATION METHOD, AND PROGRAM	(11) EP3616359
202062987645 P	(73) NIPPON TELEGRAPH AND TELEPHONE CORPORATION	(21) EP18791760.4
202062981960 P	(72) IKARASHI, Dai	(47) 12.07.2023
202062977141 P	(31) 2018095350	(87) IL2018050407
(32) 30.03.2020	(32) 17.05.2018	01.11.2018
10.03.2020	(33) Japan	(22) 09.04.2018
26.02.2020	(51) H04L 9/08	(54) SYSTEM AND METHOD FOR IOT DEVICE AUTHENTICATION AND SECURE TRANSACTION AUTHORIZATION
14.02.2020	H04L 9/00	(73) IX-Den Ltd.
(33) United States of America	H04L 9/40	(72) COOPERMAN, Leonid
United States of America	G06F 21/10	(31) 201762489562 P
United States of America	(11) EP3766203	(32) 25.04.2017
United States of America	(21) EP19712380.5	(33) United States of America
(51) H04L 9/00	(47) 12.07.2023	(51) H04L 9/32
H04L 9/32	(87) US2019020857	H04L 9/00
H04L 9/08	19.09.2019	H04L 9/40
G06F 21/16	(22) 06.03.2019	(11) EP3848875
G06F 21/35	(54) AUTONOMOUS SECRETS RENEWAL AND DISTRIBUTION	(21) EP19857475.8
G06F 21/64	(73) Microsoft Technology Licensing, LLC	(47) 12.07.2023
G06F 21/78	(72) RUSSINOVICH, Mark Eugene	(87) CN2019104141
(11) EP3991066	TEVOSYAN, Kahren	12.03.2020
(21) EP20744124.7	CHAUHAN, Abhishek Pratap Singh	(22) 03.09.2019
(47) 12.07.2023		(54) METHOD, DEVICE, COMPUTER APPARATUS AND STORAGE MEDIUM FOR ELECTING REPRESENTATIVE NODE APPARATUS
(87) IB2020056018		
30.12.2020		
(22) 25.06.2020		

(73) Tencent Technology (Shenzhen) Company Limited	(31) 201816207423	RUF, Lukas
(72) KONG, Li	(32) 03.12.2018	RENNHARD, Marc
DING, Yong	(33) United States of America	(31) 8862018
YANG, Changqing	(51) H04L 9/40	(32) 18.07.2018
WANG, Zongyou	(11) EP3896934	(33) Switzerland
SHI, Yifang	(21) EP21164749.0	(51) H04L 9/40
WANG, Nan	(47) 12.07.2023	G06F 21/85
ZHOU, Kaiban	(22) 24.03.2021	G06F 12/14
TU, Haitao	(54) DISTRIBUTED DIGITAL SECURITY SYSTEM	G06F 21/76
LI, Maocai	(73) CrowdStrike, Inc.	G06F 21/71
GUO, Rui	(72) ESSEBIER, Thomas Johann	(11) EP3803606
(31) 201811046267	DIEHL, David F.	(21) EP19806759.7
(32) 07.09.2018	LUSIGNAN, Michael Edward	(47) 12.07.2023
(33) China	(31) 202016849450	(87) US2019033765
(51) H04L 9/40	(32) 15.04.2020	28.11.2019
(11) EP3598712	(33) United States of America	(22) 23.05.2019
(21) EP18184463.0	(51) H04L 9/40	(54) SYSTEM ON CHIP FIREWALL MEMORY ARCHITECTURE
(47) 12.07.2023	B64C 39/02	(73) Texas Instruments Incorporated
(22) 19.07.2018	(11) EP4027579	(72) MUNDRA, Amritpal, Singh
(54) COMMISSIONING AN INDUSTRIAL CONTROLLER SYSTEM FOR ESTABLISHING A SECURE COMMUNICATION	(21) EP21208400.8	HU, Chunhua
(73) CODESYS Holding GmbH	(47) 12.07.2023	(31) 201816221318
(72) Schaber, Markus	(22) 16.11.2021	201862676050 P
(51) H04L 9/40	(54) SPATIAL WEB OF TRUST KEY INITIALIZATION METHOD FOR SENSOR PLATFORM ARRAY USING DIRECTED CLOSE-FIELD COMMUNICATION	(32) 14.12.2018
(11) EP3588898	(73) The Boeing Company	24.05.2018
(21) EP18774308.3	(72) Kimberly, Gregory A.	(33) United States of America
(47) 12.07.2023	(31) 202163136012 P	United States of America
(87) CN2018080223	(32) 11.01.2021	(51) H04L 9/40
04.10.2018	(33) United States of America	H04L 9/00
(22) 23.03.2018	(51) H04L 9/40	(11) EP4002787
(54) DEFENSE AGAINST APT ATTACK	G06F 21/55	(21) EP20207011.6
(73) New H3C Technologies Co., Ltd.	G06F 21/57	(47) 12.07.2023
(72) CHEN, Youkun	G06F 21/56	(22) 11.11.2020
(31) 201710188038	G06F 21/62	(54) METHODS AND DEVICES FOR STORING INFORMATION IN A DISTRIBUTED LEDGER DATABASE
(32) 27.03.2017	(11) EP4005178	(73) Oncare GmbH
(33) China	(21) EP20754435.4	(72) HIERONIMI, Christian
(51) H04L 9/40	(47) 12.07.2023	(51) H04L 9/40
(11) EP3791547	(87) US2020042745	H04L 9/08
(21) EP19725807.2	28.01.2021	H04W 4/10
(47) 12.07.2023	(22) 20.07.2020	H04W 12/04
(87) US2019030608	(54) MULTI-PERSPECTIVE SECURITY CONTEXT PER ACTOR	H04W 12/76
14.11.2019	(73) Palo Alto Networks, Inc.	H04W 4/08
(22) 03.05.2019	(72) FITZ-GERALD JR., Jeffrey James	(11) EP3772844
(54) GLOBALLY DEPLOYABLE CONTEXT AWARE VPN HEADENDS IN SCALE THROUGH NAMESPACES	MURTHY, Ashwath Sreenivasa	(21) EP20189249.4
(73) Cisco Technology, Inc.	(31) 201916522632	(47) 12.07.2023
(72) RAMACHANDRAN, Aravinth Kumar SEKARAN, Umanath, Somi	(32) 25.07.2019	(22) 03.08.2020
(31) 201815973404	(33) United States of America	(54) INTEROPERABILITY DEVICE FOR INTERCONNECTING A PLURALITY OF COMMUNICATION NETWORKS, ASSOCIATED SYSTEM AND METHOD
(32) 07.05.2018	(51) H04L 9/40	(73) Airbus DS SLC
(33) United States of America	G06F 21/57	(72) PATEROUR, Olivier
(51) H04L 9/40	H04L 67/563	(31) 1909088
(11) EP3891955	H04L 67/59	(32) 08.08.2019
(21) EP19827963.0	G06F 11/36	(33) France
(47) 12.07.2023	(11) EP3824612	(51) H04L 9/40
(87) US2019063731	(21) EP19765631.7	H04L 9/32
11.06.2020	(47) 12.07.2023	G06F 21/33
(22) 27.11.2019	(87) EP2019069331	H04L 9/08
(54) DETECTING ATTACKS USING HANDSHAKE REQUESTS SYSTEMS AND METHODS	23.01.2020	(11) EP3944583
(73) Citrix Systems, Inc.	(22) 18.07.2019	(21) EP21165859.6
(72) PENNER, Andrew	(54) PENETRATION TEST METHOD, COMPUTER PROGRAM AND DEVICE FOR DATA PROCESSING	(47) 12.07.2023
KANEKAR, Tushar	(73) Consecom AG	(22) 30.03.2021
	(72) ESPOSITO, Damiano	(54) COMMUNICATION PROGRAM, RELAY DEVICE, AND COMMUNICATION METHOD

(73) FUJITSU LIMITED	United States of America	H04W 4/24
(72) SUZUKI, Dai	(51) H04L 9/40	(11) EP3827552
(31) 2020123475	H04L 67/562	(21) EP19753504.0
(32) 20.07.2020	G06F 21/41	(47) 12.07.2023
(33) Japan	(11) EP3900289	(87) US2019041908
(51) H04L 9/40	(21) EP19809511.9	30.01.2020
H04L 9/32	(47) 12.07.2023	(22) 16.07.2019
H04L 9/00	(87) EP2019083431	(54) PROCESS-EFFICIENT GENERATION
G06F 21/57	25.06.2020	OF DATA RECORDS FOR DATA
G06F 21/64	(22) 03.12.2019	COMMUNICATIONS INVOLVING
(11) EP4147416	(54) METHOD TO MONITOR SENSITIVE	GROUPS OR AGGREGATES OF IOT
(21) EP22705167.9	WEB EMBEDDED CODE	DEVICES
(47) 12.07.2023	AUTHENTICITY	(73) Cisco Technology, Inc.
(87) JP2022001874	(73) Thales Dis France SAS	(72) ANANDAN, Swapna
27.10.2022	(72) GEORGE, Patrick	LIVANOS, Konstantin
(22) 13.01.2022	BHUPATHIRAJU, Sridhar	(31) 201816042342
(54) BLOCKCHAIN-BASED ACCOUNTABLE	FERRARI, Anthony	(32) 23.07.2018
DISTRIBUTED COMPUTING SYSTEM	TESSON, Olivier	(33) United States of America
(73) MITSUBISHI ELECTRIC	(31) 18306723	(51) H04L 12/28
CORPORATION	(32) 18.12.2018	(11) EP3758300
(72) KALABIC, Uros	(33) European Patent Office (EPO)	(21) EP19784242.0
GOLDSMITH, Abraham	(51) H04L 9/40	(47) 12.07.2023
CHIU, Tsz-Chun Michael	H04W 12/06	(87) CN2019081850
(31) 202117234041	H04W 4/46	17.10.2019
(32) 19.04.2021	H04W 12/041	(22) 09.04.2019
(33) United States of America	B60T 17/22	(54) METHOD FOR ACCESSING SERVICE
(51) H04L 9/40	B60T 11/10	NETWORK, AND COMMUNICATION
H04L 45/00	(11) EP3618386	APPARATUS
H04L 45/50	(21) EP18192064.6	(73) HUAWEI TECHNOLOGIES CO., LTD.
(11) EP3861690	(47) 12.07.2023	(72) ZHU, Hualin
(21) EP19791054.0	(22) 31.08.2018	JIN, Weisheng
(47) 12.07.2023	(54) A SYSTEM AND METHOD FOR	(31) 201810674225
(87) US2019054344	ESTABLISHING AN INTERVEHICLE	201810313099
09.04.2020	COMMUNICATION FOR AT LEAST A	(32) 26.06.2018
(22) 02.10.2019	FIRST AND SECOND COMMERCIAL	09.04.2018
(54) SECURING MPLS NETWORK TRAFFIC	VEHICLE	(33) China
(73) Arista Networks, Inc.	(73) KNORR-BREMSE Systeme für	China
(72) BALASUBRAMANIAN, Sambath Kumar	Nutzfahrzeuge GmbH	(51) H04L 12/40
HOLBROOK, Hugh W.	(72) KÓNYA, Tamás	(11) EP3742677
ACHARYA, Dipankar Bhatt	SZEMES, Gábor Bence	(21) EP18900652.1
LABONTÉ, François	NÉMETH, Huba	(47) 12.07.2023
(31) 201916590359	HILLIER, Kristóf	(87) JP2018047278
201862740300 P	(51) H04L 9/40	25.07.2019
(32) 01.10.2019	H04W 12/069	(22) 21.12.2018
02.10.2018	H04W 12/0431	(54) DETECTION DEVICE, DETECTION
(33) United States of America	H04L 41/0806	METHOD, AND PROGRAM
United States of America	(11) EP3707859	(73) NIPPON TELEGRAPH AND
(51) H04L 9/40	(21) EP18812436.6	TELEPHONE CORPORATION
H04L 47/726	(47) 12.07.2023	(72) OKANO, Yasushi
H04L 45/00	(87) US2018059150	KOYAMA, Takuma
(11) EP3761592	16.05.2019	SHIBAHARA, Toshiaki
(21) EP20171989.5	(22) 05.11.2018	(31) 2018005770
(47) 12.07.2023	(54) ENABLING ZERO-TOUCH BOOTSTRAP	(32) 17.01.2018
(22) 07.04.2016	FOR DEVICES ACROSS NETWORK	(33) Japan
(54) SYSTEM AND METHOD FOR VIRTUAL	PERIMETER FIREWALLS	(51) H04L 12/46
INTERFACES AND ADVANCED SMART	(73) Cisco Technology, Inc.	H04W 84/04
ROUTING IN A GLOBAL VIRTUAL	(72) PRITIKIN, Max	(11) EP3834379
NETWORK	FRIEL, Owen, Brendan	(21) EP18769070.6
(73) Umbra Technologies Ltd.	BARNES, Richard, Lee, II	(47) 12.07.2023
(72) RUBENSTEIN, Joseph, E.	JENNINGS, Cullen	(87) EP2018073142
SAINT-MARTIN, Thibaud Auguste,	(31) 201815946003	05.03.2020
Bernard jean	201762584168 P	(22) 28.08.2018
ORE, Carlos, Eduardo	(32) 05.04.2018	(54) INTER-SLICE SHARING IN 5G CORE
(31) 201562151174 P	10.11.2017	NETWORKS
201562144293 P	(33) United States of America	(73) HUAWEI TECHNOLOGIES CO., LTD.
(32) 22.04.2015	United States of America	(72) XIAO, Xun
07.04.2015	(51) H04L 12/14	PENG, Chenghui
(33) United States of America	H04M 15/00	WU, Jianjun

AN, Xueli	(51) H04L 27/36	(22) 08.11.2019
(51) H04L 27/26	H03F 1/02	(54) CODE ACTIVATION MANAGEMENT
(11) EP3843350	H03F 3/24	METHOD FOR NETWORK SLICING
(21) EP21157170.8	H04L 5/00	SOLUTIONS, AND CORRESPONDING
(47) 12.07.2023	(11) EP3941011	ENTITY, SERVER AND COMPUTER
(22) 08.04.2016	(21) EP21180774.8	PROGRAM
(54) MULTIPLEX OF HIGH DEFINITION	(47) 12.07.2023	(73) TELEFONAKTIEBOLAGET LM
RADIO STATIONS	(22) 17.12.2008	ERICSSON (PUBL)
(73) Nautel Limited	(54) PROCESSING TRANSMISSION	(72) BUONOCUNTO, Antonio
(72) Walker, Brian	SIGNALS IN RADIO TRANSMITTER	RONCA, Fabio
Schmid, Philipp	(73) Nokia Technologies Oy	MARFIA, Francesca
(31) 2887751	(72) Nentwig, Markus	FORMICA, Andrea
(32) 10.04.2015	(31) 20075958	CONTE, Francesco
(33) Canada	71376	
(51) H04L 27/26	(32) 21.12.2007	(51) H04L 43/0829
H03F 1/32	20.02.2008	H04L 43/10
H04L 25/03	(33) Finland	H04L 41/0677
(11) EP3826256	United States of America	H04L 9/40
(21) EP19315136.2	(51) H04L 41/0893	(11) EP3906641
(47) 12.07.2023	H04L 41/12	(21) EP19836762.5
(22) 19.11.2019	H04L 45/02	(47) 12.07.2023
(54) DIGITAL PRE-DISTORTION METHOD	H04L 41/0816	(87) US2019066270
FOR OFDM-BASED COMMUNICATION	H04L 45/036	09.07.2020
SYSTEMS	(11) EP3782334	(22) 13.12.2019
(73) RivieraWaves	(21) EP19722006.4	(54) PACKET LOSS ISOLATION TEST
(72) Bazzi, Ahmad	(47) 12.07.2023	(73) Hughes Network Systems, LLC
Meilhac, Lisa	(87) EP2019060114	(72) PHAM, Alex
(51) H04L 27/26	24.10.2019	MILLER, Daniel
H04B 7/04	(22) 18.04.2019	DILLON, Douglas
H04J 99/00	(54) SYSTEM AND METHOD FOR	(31) 201916413743
H04W 16/28	CREATING GROUP NETWORKS	201862786735 P
H04W 24/10	BETWEEN NETWORK DEVICES	(32) 16.05.2019
H04W 72/04	(73) Gurulogic Microsystems Oy	31.12.2018
(11) EP3439257	(72) SAHLBOM, Mikko	(33) United States of America
(21) EP17773747.5	KÄRKKÄINEN, Tuomas	United States of America
(47) 12.07.2023	(31) 201806322	(51) H04L 45/302
(87) JP2017005218	(32) 18.04.2018	H04L 45/74
05.10.2017	(33) United Kingdom	H04L 67/568
(22) 14.02.2017	(51) H04L 41/12	H04L 67/63
(54) COMMUNICATION DEVICE,	H04L 45/48	(11) EP3770767
COMMUNICATION METHOD AND	H04L 45/02	(21) EP19788847.2
PROGRAM	(11) EP3474502	(47) 12.07.2023
(73) Sony Group Corporation	(21) EP18191690.9	(87) CN2019081204
(72) MIZUSAWA, Nishiki	(47) 12.07.2023	24.10.2019
(31) 2016067969	(22) 30.08.2018	(22) 03.04.2019
(32) 30.03.2016	(54) REDUCED CONFIGURATION FOR	(54) DATA PROCESSING METHOD AND
(33) Japan	MULTI-STAGE NETWORK FABRICS	DEVICE, AND COMPUTER READABLE
(51) H04L 27/26	(73) Juniper Networks, Inc.	STORAGE MEDIUM
H04L 27/34	(72) PRZYGIENDA, Antoni B.	(73) ZTE Corporation
(11) EP3529962	ATLAS, Alia K.	(72) HU, Fangwei
(21) EP17783876.0	(31) 201816015724	HUANG, Guangping
(47) 12.07.2023	201862625452 P	LIU, Kaihua
(87) EP2017076397	201762573495 P	LI, Zhuo
03.05.2018	(32) 22.06.2018	WANG, Yansong
(22) 17.10.2017	02.02.2018	(31) 201810356463
(54) TRANSMITTER, RECEIVER,	17.10.2017	(32) 19.04.2018
TRANSMITTING METHOD, AND	(33) United States of America	(33) China
RECEIVING METHOD	United States of America	(51) H04L 47/41
(73) Panasonic Intellectual Property	United States of America	H04L 47/193
Corporation of America	(51) H04L 41/40	H04L 45/24
(72) KLENNER, Peter	H04L 41/5041	H04W 28/02
(31) 17164111	H04L 41/0895	(11) EP4062599
16195317	H04L 41/0803	(21) EP21701163.4
(32) 31.03.2017	(11) EP4055778	(47) 12.07.2023
24.10.2016	(21) EP19809386.6	(87) EP2021051887
(33) European Patent Office (EPO)	(47) 12.07.2023	05.08.2021
European Patent Office (EPO)	(87) EP2019080711	(22) 27.01.2021
	14.05.2021	(54) ROUTING OF BURSTY DATA FLOWS

(73) British Telecommunications public limited company	(47) 12.07.2023	H04L 65/612
(72) RINGLAND, Simon	(87) IB2016000713	H04L 65/613
(31) 202001173	10.11.2016	H04L 65/65
20154104	(22) 05.05.2016	H04L 65/70
(32) 28.01.2020	(54) ESTABLISHING MEDIA PATHS IN REAL TIME COMMUNICATIONS	H04L 67/02
28.01.2020	(73) Ipalive AB	H04N 21/234
(33) United Kingdom	(72) STAHL, Karl Erik	H04N 21/262
European Patent Office (EPO)	GARTNER, Martin	H04N 21/81
(51) H04L 47/41	(31) 201562157359 P	H04N 21/845
H04L 47/283	(32) 05.05.2015	H04N 21/2343
H04L 47/2441	(33) United States of America	(11) EP3466079
H04L 47/2416	(51) H04L 65/1073	(21) EP17802259.6
H04L 47/24	H04L 65/1106	(47) 12.07.2023
(11) EP3820093	(11) EP3632078	(87) FI2017050376
(21) EP20193497.3	(21) EP18736975.6	30.11.2017
(47) 12.07.2023	(47) 12.07.2023	(22) 17.05.2017
(22) 28.08.2020	(87) FR2018051209	(54) METHOD AND AN APPARATUS AND A COMPUTER PROGRAM FOR ENCODING MEDIA CONTENT
(54) AGGREGATING MESSAGES INTO A SINGLE TRANSMISSION	29.11.2018	(73) Nokia Technologies Oy
(73) BlackBerry Limited	(22) 18.05.2018	(72) HANNUKSELA, Miska
(72) MONTEMURRO, Michael Peter	(54) METHOD FOR CONTROLLING A COMMUNICATION COMPRISING MULTIPLE TRANSACTIONS	(31) 201662340707 P
LEPP, James Randolph Winter	(73) ORANGE	(32) 24.05.2016
McCann, Stephen	(72) DOREE, Jos	(33) United States of America
(31) 201916677813	LE ROUZIC, Jean-Claude	(51) H04L 67/00
(32) 08.11.2019	(31) 1754569	H04L 67/12
(33) United States of America	(32) 23.05.2017	H04L 67/1061
(51) H04L 47/80	(33) France	G05B 19/418
H04L 45/64	(51) H04L 65/611	H04L 67/104
(11) EP3925190	H04L 65/612	H04L 41/084
(21) EP20779833.1	(11) EP3721605	H04L 41/0853
(47) 12.07.2023	(21) EP18829549.7	H04L 43/10
(87) CN2020080680	(47) 12.07.2023	(11) EP3799394
01.10.2020	(87) US2018062874	(21) EP20191255.7
(22) 23.03.2020	13.06.2019	(47) 12.07.2023
(54) COMPUTER-IMPLEMENTED METHODS AND COMPUTER PROGRAM PERFORMING METHODS FOR PROVIDING TRANSPORT CONTEXT AND ON-PATH META DATA TO SUPPORT 5G ENABLED NETWORKS	(22) 28.11.2018	(22) 17.08.2020
(73) Huawei Technologies Co., Ltd.	(54) STREAMING RADIO WITH PERSONALIZED CONTENT INTEGRATION	(54) PEER-LEVEL CONTROL OF INDUSTRIAL AUTOMATION SYSTEM COMPONENTS
(72) LEE, Young	(73) Amazon Technologies, Inc.	(73) Rockwell Automation Technologies, Inc.
JOHN, Kaippallimalil Mathew	(72) HOBBS, Tyler	(72) XU, Dayin
GUICHARD, James N	LUKE, Alexander	MARTIN, William H.
(31) 201962822626 P	(31) 201715831205	ASMUSSEN, Jes
(32) 22.03.2019	(32) 04.12.2017	CASPERS, John P.
(33) United States of America	(33) United States of America	MARTIN, Jeffrey S.
(51) H04L 51/02	(51) H04L 65/612	(31) 201916580995
H04L 51/18	H04L 65/70	(32) 24.09.2019
(11) EP3624405	H04L 65/75	(33) United States of America
(21) EP19206652.0	G06N 3/08	(51) H04L 67/1087
(47) 12.07.2023	(11) EP3777207	H04L 67/1029
(22) 20.09.2017	(21) EP19785048.0	H04L 61/256
(54) CONTROL SYSTEM USING SCOPED SEARCH AND CONVERSATIONAL INTERFACE	(47) 12.07.2023	H04L 67/00
(73) Microsoft Technology Licensing, LLC	(87) FI2019050212	H04L 67/563
(72) RIPSHER, Lawrence B.	17.10.2019	H04L 67/289
SEIBER, Scott E.	(22) 13.03.2019	G06F 9/50
(31) 201615278003	(54) CONTENT-SPECIFIC NEURAL NETWORK DISTRIBUTION	G06F 9/4401
(32) 27.09.2016	(73) Nokia Technologies Oy	G06F 8/61
(33) United States of America	(72) AYTEKIN, Caglar	G06F 8/60
(51) H04L 65/1069	CRICRI, Francesco	H04L 61/2514
H04L 65/1046	TUPALA, Miika	(11) EP3748934
(11) EP3292675	AKSU, Emre	(21) EP19743986.2
(21) EP16742382.1	NI, Xingyang	(47) 12.07.2023
	(31) 201815948304	(87) CN2019073581
	(32) 09.04.2018	01.08.2019
	(33) United States of America	(22) 29.01.2019
	(51) H04L 65/80	(54) MIRROR PULL METHOD AND SYSTEM THEREFOR
		(73) ZTE Corporation

(72) LI, Xialong	FEATURE DISTRIBUTION OF INPUT	H04L 12/14
(31) 201810082188	DATA	(11) EP3022952
(32) 29.01.2018	(73) Volkswagen AG	(21) EP14748399.4
(33) China	(72) Schlicht, Peter	(47) 12.07.2023
(51) H04L 67/1095	Hüger, Fabian	(87) US2014047201
H04L 9/40	(31) 102018218097	22.01.2015
(11) EP3860094	(32) 23.10.2018	(22) 18.07.2014
(21) EP21164002.4	(33) Germany	(54) BILLING OF RELAYED DEVICE
(47) 12.07.2023	(51) H04L 67/12	(73) InterDigital Patent Holdings, Inc.
(22) 20.09.2013	H04L 67/06	(72) PALANISAMY, Suresh
(54) SUBSCRIPTION-NOTIFICATION	H04L 67/62	DING, Zongrui
MECHANISMS FOR	G06F 8/65	STARSINIC, Michael, F.
SYNCHRONIZATION OF DISTRIBUTED	(11) EP3827578	(31) 201361847671 P
STATES	(21) EP19759005.2	(32) 18.07.2013
(73) Google LLC	(47) 12.07.2023	(33) United States of America
(72) LUXENBERG, Jared A.	(87) EP2019073254	(51) H04L 67/303
LOGUE, Jay D.	05.03.2020	H04L 9/40
SUPRAMANIAM, Senthilvasan	(22) 30.08.2019	H04L 67/04
HARDISON, Osborne B.	(54) MANAGING OPERATIONS	H04L 67/10
(31) 201213624892	ASSOCIATED WITH AN OBJECT ON	H04L 67/52
(32) 22.09.2012	IOT ENABLED DEVICES	G06Q 20/38
(33) United States of America	(73) Siemens Aktiengesellschaft	G06Q 20/32
(51) H04L 67/12	(72) KRISHNAN, Sandeep	G06Q 20/40
(11) EP4085596	JANARDHANAN, Shaiju	H04W 4/029
(21) EP20830238.0	(31) 18191989	(11) EP3353733
(47) 12.07.2023	(32) 31.08.2018	(21) EP16849357.5
(87) EP2020087427	(33) European Patent Office (EPO)	(47) 12.07.2023
08.07.2021	(51) H04L 67/12	(87) US2016051605
(22) 21.12.2020	H04L 67/1095	30.03.2017
(54) A NETWORK CONTROLLER FOR	H04L 41/0663	(22) 14.09.2016
GRANTING ACCESS RIGHTS TO A	(11) EP3884648	(54) METHOD AND SYSTEM FOR FRAUD
SET OF DEVICES	(21) EP19818324.6	DETECTION USING A MOBILE
(73) Signify Holding B.V.	(47) 12.07.2023	COMMUNICATION DEVICE
(72) MAGIELSE, Remco	(87) US2019061054	(73) Mastercard International Incorporated
TOLLE, Tobias Georg	28.05.2020	(72) SIDHU, Navjot
VAN DE LAARSCHOT, Huon Urbald	(22) 13.11.2019	HIVELY, Corey
Ogier Norbert	(54) GEO-REPLICATED IOT HUB	DHALA, Amyn
SABATINELLI, Paolo	(73) Microsoft Technology Licensing, LLC	(31) 201514862617
ALIAKSEYEU, Dzmityr Viktorovich	(72) MANDA, Roopesh Kumar	(32) 23.09.2015
(31) 20150018	AGARWAL, Kapil	(33) United States of America
(32) 02.01.2020	SHARMA, Vaibhav	(51) H04M 1/02
(33) European Patent Office (EPO)	DAR, Affan Arshad	G02F 1/13357
(51) H04L 67/12	(31) 201816197047	G02F 1/133
F24F 11/30	(32) 20.11.2018	G02F 1/1335
G01D 4/00	(33) United States of America	(11) EP3780565
G01K 17/06	(51) H04L 67/14	(21) EP18924091.4
(11) EP3796620	(11) EP3843360	(47) 12.07.2023
(21) EP20206448.1	(21) EP19219297.9	(87) CN2018092892
(47) 12.07.2023	(47) 12.07.2023	02.01.2020
(22) 02.10.2019	(22) 23.12.2019	(22) 26.06.2018
(54) MONITORING OF HEAT	(54) SESSION MANAGEMENT FUNCTION,	(54) SCREEN ASSEMBLY AND
CONSUMPTION	APPLICATION FUNCTION, METHOD	ELECTRONIC DEVICE
(73) ista SE	OF OPERATING A SESSION	(73) GUANGDONG OPPO MOBILE
(72) Mathiesen, Benny Martin	MANAGEMENT FUNCTION, METHOD	TELECOMMUNICATIONS CORP., LTD.
JUSTESEN, Peter Lindbjerg	OF OPERATING AN APPLICATION	(72) OUYANG, Zhibin
(31) PA201870650	FUNCTION, AND NON-TRANSIENT	TANG, Yimei
(32) 02.10.2018	COMPUTER-READABLE STORAGE	CHENG, Jiao
(33) Denmark	MEDIUM	(51) H04M 1/02
(51) H04L 67/12	(73) NTT DoCoMo, Inc.	G06F 1/16
G06N 3/08	(72) MINOKUCHI, Atsushi	(11) EP3661175
G06N 3/045	MUTIKAINEN, JARI	(21) EP19212532.6
(11) EP3644582	GUERZONI, Riccardo	(47) 12.07.2023
(21) EP19203768.7	SAMA, Malla Reddy	(22) 29.11.2019
(47) 12.07.2023	THAKOLSRI, Srisakul	(54) TRANSMISSION MODULE,
(22) 17.10.2019	(51) H04L 67/147	TRANSMISSION MECHANISM, AND
(54) METHOD, DEVICE AND CENTRAL	H04M 15/00	MOBILE TERMINAL
DEVICE FOR DETECTING A CONCEPT	H04W 4/70	(73) GUANGDONG OPPO MOBILE
SHIFT IN THE DATA AND / OR	H04W 4/24	TELECOMMUNICATIONS CORP., LTD.

(72) CHEN, Jia	(73) VIVO MOBILE COMMUNICATION CO., LTD.	(54) PROTECTIVE CIRCUIT FOR CAMERA OF TERMINAL
(31) 201822012084 U	(72) ZHAO, Peng	(73) Honor Device Co., Ltd.
(32) 30.11.2018	(31) 201910142050	(72) WANG, Chao
(33) China	(32) 26.02.2019	SUN, Zhiyong
(51) H04M 1/02	(33) China	XU, Bo
G06F 1/16	(51) H04M 3/42	WANG, Yi
(11) EP3944597	H04M 3/56	SUN, Qiao
(21) EP20214876.3	H04M 7/00	DONG, Jie
(47) 12.07.2023	(11) EP3560183	(31) PCT/CN2018/085366
(22) 17.12.2020	(21) EP16822683.5	(32) 02.05.2018
(54) SLIDABLE MOBILE TERMINAL	(47) 12.07.2023	(33) World Intellectual Property Office (WIPO)
(73) LG Electronics Inc.	(87) EP2016082549	(51) H04N 7/18
(72) YOM, Jeeho	28.06.2018	(11) EP3905671
PARK, Sangwook	(22) 23.12.2016	(21) EP21174203.6
LEE, Minchul	(54) CALL COLLISION RESOLUTION IN A COMMUNICATION NETWORK	(47) 12.07.2023
CHOI, Hakho	(73) Telecom Italia S.p.A.	(22) 13.04.2016
KIM, Sungdo	(72) FUSCO, Antonio	(54) METHOD AND DEVICE FOR PROCESSING REQUEST
SEOL, Seounghwan	(51) H04M 3/436	(73) Xiaomi Inc.
YANG, Jiwoong	H04M 3/54	(72) LI, Feiyun
(31) PCT/KR2020/009764	H04M 7/00	CHEN, Changbing
(32) 24.07.2020	H04M 3/42	HOU, Enxing
(33) World Intellectual Property Office (WIPO)	(11) EP3900312	(31) 201510369410
(51) H04M 1/02	(21) EP19839210.2	(32) 26.06.2015
G06F 1/16	(47) 12.07.2023	(33) China
G09F 9/30	(87) US2019066598	(51) H04N 9/31
(11) EP3945711	25.06.2020	G02B 27/01
(21) EP21151137.3	(22) 16.12.2019	B60K 35/00
(47) 12.07.2023	(54) CONTEXT-AWARE REDIRECTION FROM TELEPHONY ENVIRONMENT TO MESSAGING ENVIRONMENT	B60R 1/00
(22) 12.01.2021	(73) Liveperson, Inc.	B32B 17/10
(54) MOBILE TERMINAL	(72) HAYES, Marc	(11) EP3846450
(73) LG Electronics, Inc.	FANNING, Matt	(21) EP19854408.2
(72) SON, Kyungsoo	(31) 201862766601 P	(47) 12.07.2023
SONG, Insu	(32) 18.12.2018	(87) JP2019009403
LEE, Jihoon	(33) United States of America	05.03.2020
MUN, Kiseong	(51) H04N 5/222	(22) 08.03.2019
LEE, Jaewook	H04N 23/66	(54) DISPLAY DEVICE, DISPLAY METHOD, AND PROGRAM
(31) PCT/KR2020/009969	H04N 23/661	(73) JVCKenwood Corporation
(32) 29.07.2020	H04N 23/695	(72) OHYAMA, Minoru
(33) World Intellectual Property Office (WIPO)	(11) EP3749998	(31) 2018161283
(51) H04M 1/02	(21) EP18905521.3	(32) 30.08.2018
H04R 1/02	(47) 12.07.2023	(33) Japan
H04R 1/34	(87) US2018057527	(51) H04N 13/00
H04M 1/03	15.08.2019	(11) EP3603053
(11) EP3962043	(22) 25.10.2018	(21) EP18708125.2
(21) EP20794143.6	(54) SYSTEM TO CONTROL CAMERA FUNCTION REMOTELY	(47) 12.07.2023
(47) 12.07.2023	(73) CAMERA CONTROL AT A DISTANCE, LLC	(87) EP2018055183
(87) CN2020081845	(72) SETOS, Andrew	04.10.2018
29.10.2020	(31) 201862628630 P	(22) 02.03.2018
(22) 27.03.2020	(32) 09.02.2018	(54) IMAGE GENERATION FROM VIDEO
(54) MOBILE TERMINAL	(33) United States of America	(73) Koninklijke Philips N.V.
(73) VIVO MOBILE COMMUNICATION CO., LTD.	(51) H04N 5/225	(72) KROON, Bart
(72) MAI, Biquan	H04N 5/232	VAREKAMP, Christiaan
(31) 201910335593	G02B 7/09	(31) 17163509
(32) 24.04.2019	H02H 9/04	(32) 29.03.2017
(33) China	H02K 11/02	(33) European Patent Office (EPO)
(51) H04M 1/725	H02H 9/00	(51) H04N 13/194
G06F 21/32	(11) EP3780572	H04N 13/161
(11) EP3934217	(21) EP18917483.2	H04N 19/597
(21) EP20762192.1	(47) 12.07.2023	H04N 19/103
(47) 12.07.2023	(87) CN2018086918	H04N 19/15
(87) CN2020073956	07.11.2019	H04N 19/186
03.09.2020	(22) 15.05.2018	(11) EP3849178
(22) 23.01.2020		(21) EP19866939.2
(54) REMINDING TASK PROCESSING METHOD, TERMINAL, AND COMPUTER READABLE STORAGE MEDIUM		(47) 12.07.2023
		(87) CN2019100639

02.04.2020	(11) EP2842315	(22) 22.06.2012
(22) 14.08.2019	(21) EP13719164.9	(54) METHODS FOR MOTION COMPENSATED PREDICTION
(54) DATA PROCESSING METHOD AND STORAGE MEDIUM	(47) 12.07.2023	(73) NTT DoCoMo, Inc.
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(87) GB2013051071	(72) BOSSEN, Frank Jan
(72) XIA, Yang	31.10.2013	(31) 201161501112 P
(31) 201811163427	(22) 26.04.2013	(32) 24.06.2011
(32) 30.09.2018	(54) MODE-DEPENDENT COEFFICIENT SCANNING AND DIRECTIONAL TRANSFORMS FOR DIFFERENT COLOUR SAMPLING FORMATS	(33) United States of America
(33) China	(73) Sony Group Corporation	<hr/>
(51) H04N 17/00	(72) SAUNDERS, Nicholas Ian	(51) H04N 19/70
G01C 25/00	SHARMAN, Karl James	(11) EP3123726
G01B 21/04	GAMEI, James Alexander	(21) EP15768859.9
G06T 7/80	SILCOCK, Paul James	(47) 12.07.2023
(11) EP3900330	(31) 201211623	(87) US2015022303
(21) EP19848772.0	201211629	01.10.2015
(47) 12.07.2023	201211628	(22) 24.03.2015
(87) DE2019200147	201207459	(54) GENERIC USE OF HEVC SEI MESSAGES FOR MULTI-LAYER CODECS
25.06.2020	(32) 29.06.2012	(73) Qualcomm Incorporated
(22) 16.12.2019	29.06.2012	(72) RAMASUBRAMONIAN, Adarsh Krishnan
(54) ASSEMBLY AND MEASUREMENT OF AN ASSEMBLY FOR CALIBRATING A CAMERA	29.06.2012	HENDRY, Fnu
(73) Conti Temic microelectronic GmbH	26.04.2012	WANG, Ye-Kui
(72) ALEXOVSKI, Marko	(33) United Kingdom	(31) 201514665999
FRANZ, Ivan	United Kingdom	201461969797 P
LASARUK, Aless	United Kingdom	(32) 23.03.2015
(31) 102018222796	United Kingdom	24.03.2014
(32) 21.12.2018	(51) H04N 19/513	(33) United States of America
(33) Germany	H04N 19/52	United States of America
<hr/>	H04N 19/523	<hr/>
(51) H04N 19/105	H04N 19/176	(51) H04N 19/70
H04N 19/593	H04N 19/139	H04N 19/30
H04N 19/159	(11) EP3189660	(11) EP3158767
H04N 19/70	(21) EP15847504.6	(21) EP15747601.1
H04N 19/96	(47) 12.07.2023	(47) 12.07.2023
H04N 19/176	(87) CN2015091275	(87) US2015036366
H04N 19/80	07.04.2016	23.12.2015
(11) EP3823279	(22) 30.09.2015	(22) 18.06.2015
(21) EP20218006.3	(54) METHOD OF ADAPTIVE MOTION VECTOR RESOLUTION FOR VIDEO CODING	(54) SYSTEMS AND METHODS FOR SELECTIVELY PERFORMING A BITSTREAM CONFORMANCE CHECK
(47) 12.07.2023	(73) HFI Innovation Inc.	(73) Qualcomm Incorporated
(22) 17.08.2010	(72) LIU, Shan	(72) RAMASUBRAMONIAN, Adarsh Krishnan
(54) APPARATUS OF DECODING AN IMAGE, METHOD OF ENCODING AN IMAGE AND COMPUTER-READABLE MEDIUM FOR STORING DATA ASSOCIATED WITH A VIDEO	XU, Xiaozhong	HENDRY, Fnu
(73) Samsung Electronics Co., Ltd.	AN, Jicheng	WANG, Ye-Kui
(72) MIN, Jung-Hye	ZHANG, Kai	(31) 201514742435
SONG, Hak-Sup	ZHANG, Xianguo	201462015380 P
(31) 20090075854	(31) 201562182685 P	(32) 17.06.2015
(32) 17.08.2009	201562154373 P	20.06.2014
(33) Korea (Republic)	PCT/CN2015/072175	(33) United States of America
<hr/>	PCT/CN2015/071553	United States of America
(51) H04N 19/176	PCT/CN2014/088017	<hr/>
H04N 19/119	(32) 22.06.2015	(51) H04N 19/70
H04N 19/129	29.04.2015	H04N 19/88
H04N 19/593	03.02.2015	H04N 21/44
H04N 19/11	26.01.2015	(11) EP2979456
H04N 19/103	30.09.2014	(21) EP14724585.6
H04N 19/117	(33) United States of America	(47) 12.07.2023
H04N 19/12	United States of America	(87) US2014032231
H04N 19/124	World Intellectual Property Office (WIPO)	02.10.2014
H04N 19/136	World Intellectual Property Office (WIPO)	(22) 28.03.2014
H04N 19/186	World Intellectual Property Office (WIPO)	(54) IMPROVED RTP PAYLOAD FORMAT DESIGNS
H04N 19/157	(51) H04N 19/523	(73) QUALCOMM INCORPORATED
H04N 19/82	H04N 19/42	(72) WANG, Ye-Kui
H04N 19/523	H04N 19/82	(31) 201414228164
H04N 19/60	(11) EP3751856	201361806705 P
H04N 19/13	(21) EP20181965.3	(32) 27.03.2014
	(47) 12.07.2023	29.03.2013
		(33) United States of America
		United States of America



(51) H04N 19/86	(11) EP3399762	(21) EP18904907.5
H04N 19/139	(21) EP18166554.8	(47) 12.07.2023
H04N 19/176	(47) 12.07.2023	(87) CN2018110685
H04N 19/117	(22) 10.04.2018	15.08.2019
H04N 19/159	(54) PORTABLE HUB WITH DIGITAL VIDEO RECORDER	(22) 17.10.2018
(11) EP3614678	(73) Harman International Industries, Incorporated	(54) SINGLE SENSOR-BASED DUAL-SPECTRAL CAMERA SYSTEM AND IMAGE PROCESSING METHOD
(21) EP19194200.2	(72) CHANNEY, Royce D.	(73) Zhejiang Uniview Technologies Co., Ltd.
(47) 12.07.2023	RANJHAN, Sandip	(72) YU, Hengle
(22) 28.05.2015	ABHNIMANYU, Kumar	SUN, Yue
(54) METHOD, APPARATUS AND SYSTEM FOR DE-BLOCKING A BLOCK OF VIDEO SAMPLES	TRIPATHI, Prakash	CHEN, Duoming
(73) CANON KABUSHIKI KAISHA	(31) 201741015448	(31) 201810143997
(72) KOLESNIKOV, Volodymyr	201715722896	(32) 11.02.2018
ROSEWARNE, Christopher James	(32) 02.05.2017	(33) China
GAN, Jonathan	02.10.2017	<hr/>
(31) 2014202921	(33) India	(51) H04N 23/45
(32) 29.05.2014	United States of America	H04N 23/51
(33) Australia	<hr/>	H04N 23/55
(51) H04N 21/235	(51) H04N 21/44	H04M 1/02
H04N 21/6547	G06N 3/08	G03B 30/00
H04N 21/485	G06N 3/04	G03B 35/12
H04N 21/482	G06V 10/764	(11) EP3767937
(11) EP3022905	G06V 10/778	(21) EP19819572.9
(21) EP14826717.2	G06V 10/82	(47) 12.07.2023
(47) 12.07.2023	G06V 20/40	(87) CN2019086973
(87) US2014047101	(11) EP3826317	19.12.2019
22.01.2015	(21) EP19837223.7	(22) 15.05.2019
(22) 17.07.2014	(47) 12.07.2023	(54) CAMERA MODULE AND ELECTRONIC DEVICE
(54) SYSTEMS AND METHODS FOR CONTENT PRESENTATION MANAGEMENT	(87) CN2019091490	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(73) SourcePicture Inc.	23.01.2020	(72) CHEN, Biao
(72) HABERMAN, Seth	(2) 17.06.2019	(31) 201820929365 U
(31) 201361847204 P	(54) METHOD AND DEVICE FOR IDENTIFYING KEY TIME POINT OF VIDEO, COMPUTER APPARATUS AND STORAGE MEDIUM	(32) 14.06.2018
(32) 17.07.2013	(73) Tencent Technology (Shenzhen) Company Limited	(33) China
(33) United States of America	<hr/>	<hr/>
(51) H04N 21/41	(72) WU, Tao	(51) H04N 23/611
H04N 21/436	GONG, Guoping	H04N 23/63
H04L 12/28	XU, Xuyuan	H04N 23/67
H04N 21/482	(31) 201810791373	(11) EP3627822
H04N 21/485	(32) 18.07.2018	(21) EP18817013.8
(11) EP3358850	(33) China	(47) 12.07.2023
(21) EP18164147.3	<hr/>	(87) CN2018091227
(47) 12.07.2023	(51) H04N 23/00	20.12.2018
(22) 13.12.2013	G01J 1/42	(22) 14.06.2018
(54) CONTENT PLAYING APPARATUS, METHOD FOR PROVIDING UI OF CONTENT PLAYING APPARATUS, NETWORK SERVER, AND METHOD FOR CONTROLLING BY NETWORK SERVER	(11) EP3662655	(54) FOCUS REGION DISPLAY METHOD AND APPARATUS, AND TERMINAL DEVICE
(73) Samsung Electronics Co., Ltd.	(21) EP18780216.0	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(72) LEE, Kang-min	(47) 12.07.2023	(72) LI, Xiaopeng
SHIM, Jung-hyun	(87) IB2018055889	(31) 201710458367
JIN, Sun-mi	14.02.2019	(32) 16.06.2017
KWEON, Ji-Hyeon	(54) SKY MONITORING SYSTEM	(33) China
(31) 20120146335	(73) Ecole Polytechnique Fédérale de Lausanne (EPFL)	<hr/>
(32) 14.12.2012	(72) KÄMPF, Jérôme Henri	(51) H04Q 9/00
(33) Korea (Republic)	WU, Yujie	G06F 13/00
<hr/>	SCARTEZZINI, Jean-Louis	F24F 11/38
(51) H04N 21/43	(31) 102017007333	(11) EP3926970
H04N 21/41	(32) 05.08.2017	(21) EP20755105.2
H04W 4/80	(33) Germany	(47) 12.07.2023
H04N 21/436	<hr/>	(87) JP2020004340
H04N 21/414	(51) H04N 23/11	20.08.2020
H04N 21/4363	H04N 25/131	(22) 05.02.2020
H04N 21/4367	H04N 23/71	(54) APPARATUS MANAGEMENT SYSTEM
H04L 12/28	H04N 23/72	(73) DAIKIN INDUSTRIES, LTD.
	H04N 23/73	(72) KITAMURA, Masayasu
	H04N 23/76	(31) 2019023525
	H04N 23/80	(32) 13.02.2019
	(11) EP3751833	(33) Japan

(51) H04R 1/10	(11) EP3704874	DICKINS, Glenn N.
(11) EP3780648	(21) EP18796007.5	(31) 99967 P
(21) EP19777877.2	(47) 12.07.2023	(32) 25.09.2008
(47) 12.07.2023	(87) EP2018079681	(33) United States of America
(87) JP2019005237	09.05.2019	<hr/>
03.10.2019	(22) 30.10.2018	(51) H04W 4/02
(22) 14.02.2019	(54) METHOD OF OPERATING A HEARING	G01S 7/40
(54) SPEAKER DEVICE AND ASSIGNMENT	AID SYSTEM AND A HEARING AID	G01S 13/34
METHOD	SYSTEM	(11) EP3707920
(73) Sony Group Corporation	(73) Widex A/S	(21) EP17800476.8
(72) FUKUI, Kimihiro	(72) PIHL, Michael Johannes	(47) 12.07.2023
(31) 2018066737	PELEGRIN-GARCIA, David	(87) EP2017078744
(32) 30.03.2018	MOSGAARD, Lars Dalskov	16.05.2019
(33) Japan	ELMEDYB, Thomas Bo	(22) 09.11.2017
<hr/>	MOWLAE, Pejman	(54) ADAPTIVE GEOLOCATION QUALITY
(51) H04R 1/40	(31) PA201800465	OPTIMIZATION IN WIRELESS
H04S 3/02	PA201800462	NETWORKS
(11) EP3525482	PA201700612	(73) Everynet BV
(21) EP19156239.6	PA201700611	(72) VELDER, Sergey
(47) 12.07.2023	(32) 15.08.2018	KLEBAN, Vitaly
(22) 08.02.2019	15.08.2018	<hr/>
(54) MICROPHONE ARRAY FOR	31.10.2017	(51) H04W 4/02
CAPTURING AUDIO SOUND FIELD	31.10.2017	H04W 12/06
(73) Dolby Laboratories Licensing Corporation	(33) Denmark	H04W 4/029
(72) HANSCHKE, Jan-Hendrik	Denmark	H04W 88/08
THOMAS, Mark R. P.	Denmark	H04W 4/024
(31) 201862779709 P	Denmark	(11) EP3076750
201862687132 P	<hr/>	(21) EP16162912.6
201862628363 P	(51) H04R 31/00	(47) 12.07.2023
(32) 14.12.2018	B81C 1/00	(22) 30.03.2016
19.06.2018	H04R 19/00	(54) SYSTEM FOR THE DISTRIBUTION
09.02.2018	(11) EP3975588	OF WIRELESS SIGNALS IN
(33) United States of America	(21) EP21199065.0	TELECOMMUNICATION NETWORKS
United States of America	(47) 12.07.2023	(73) JMA Wireless B.V.
United States of America	(22) 27.09.2021	(72) NOTARGIACOMO, Massimo
<hr/>	(54) METHOD FOR MANUFACTURING AN	LANDRY, Todd Edward
(51) H04R 3/12	ELECTROACOUSTIC TRANSDUCER	CHIURCO, Giovanni
H04R 5/04	(73) Commissariat à l'Energie Atomique et	ORLANDINI, Roberto
(11) EP3603107	aux Energies Alternatives	(31) 201562140027 P
(21) EP18711538.1	(72) JOET, Loïc	(32) 30.03.2015
(47) 12.07.2023	(31) 2009921	(33) United States of America
(87) EP2018056404	(32) 29.09.2020	<hr/>
27.09.2018	(33) France	(51) H04W 4/02
(22) 14.03.2018	<hr/>	H05B 47/105
(54) METHOD FOR OUTPUTTING AN	(51) H04S 7/00	H05B 47/19
AUDIO SIGNAL INTO AN INTERIOR VIA	G01S 5/30	G01S 13/04
AN OUTPUT DEVICE COMPRISING	(11) EP3547720	G01S 13/87
A LEFT AND A RIGHT OUTPUT	(21) EP19165921.8	H04W 4/33
CHANNEL	(47) 12.07.2023	H04W 4/80
(73) ASK Industries GmbH	(22) 28.03.2019	(11) EP3962120
(72) KOTULLA, Daniel	(54) METHOD AND SYSTEM FOR	(21) EP21190530.2
(31) 102017106022	DETERMINING A POSITION OF A	(47) 12.07.2023
(32) 21.03.2017	MICROPHONE	(22) 10.08.2021
(33) Germany	(73) CAE Inc.	(54) A NETWORK CONTROLLING DEVICE
<hr/>	(72) AYOTTE, Maxime	FOR CONTROLLING A NETWORK
(51) H04R 25/00	DESMET, Laurent	PERFORMING RADIOFREQUENCY
(11) EP3780657	(31) 3000122	SENSING
(21) EP20193599.6	(32) 29.03.2018	(73) Signify Holding B.V.
(47) 12.07.2023	(33) Canada	(72) STEVENS, Hendrik
(22) 29.05.2017	<hr/>	DEIXLER, Peter
(54) A HEARING DEVICE COMPRISING	(51) H04S 7/00	KRAJNC, Hugo, José
A FILTERBANK AND AN ONSET	H04S 3/00	ROZENDAAL, Leendert, Teunis
DETECTOR	(11) EP3739908	(31) 202063073167 P
(73) Oticon A/S	(21) EP20159771.3	20195628
(72) DE HAAN, Jan M.	(47) 12.07.2023	(32) 01.09.2020
EL-AZM, Fares	(22) 15.09.2009	11.09.2020
(31) 16172060	(54) BINAURAL FILTERS FOR	(33) United States of America
(32) 30.05.2016	MONOPHONIC COMPATIBILITY AND	European Patent Office (EPO)
(33) European Patent Office (EPO)	LOUDSPEAKER COMPATIBILITY	<hr/>
<hr/>	(73) Dolby Laboratories Licensing Corporation	(51) H04W 4/021
(51) H04R 25/00	(72) MCGRATH, David S.	G06F 16/29
H04S 1/00		H04W 4/029

(11) EP3860163	(54) METHOD, APPARATUS AND	G08G 1/005
(21) EP20154649.6	COMPUTER PROGRAM FOR	G08G 1/16
(47) 12.07.2023	IMPROVED INTERFERENCE	(11) EP3573354
(22) 30.01.2020	CLASSIFICATION AND GEOLOCATION	(21) EP19176106.3
(54) MATCHING LOCATION-RELATED	EXPLOITING THE TRAJECTORY OF A	(47) 12.07.2023
INFORMATION WITH NAME	MOBILE VEHICLE	(22) 23.05.2019
INFORMATION OF POINTS OF	(73) Mitsubishi Electric Corporation	(54) VEHICLE TO PERSON
INTEREST	(72) NGUYEN, Viet Hoa	COMMUNICATION WITH SELECTABLE
(73) HERE Global B.V.	GRESSET, Nicolas	INTERACTION-MODES
(72) WIROLA, Lauri Aarne Johannes	(51) H04W 4/06	(73) Aptiv Technologies Limited
IVANOV, Pavel	H04W 36/00	(72) Laur, Michael H.
NURMINEN, Henri Jaakko Julius	H04W 72/00	Mangal, Nandita
(51) H04W 4/021	(11) EP3348081	(31) 201815989258
H04W 4/029	(21) EP15757524.2	201862675811 P
(11) EP3125621	(47) 12.07.2023	(32) 25.05.2018
(21) EP16188798.9	(87) EP2015070451	24.05.2018
(47) 12.07.2023	16.03.2017	(33) United States of America
(22) 27.06.2013	(22) 08.09.2015	United States of America
(54) GEO-FENCING BASED UPON	(54) STREAMING SESSION	(51) H04W 4/40
SEMANTIC LOCATION	CONTINUATION	H04W 28/02
(73) Intel Corporation	(73) Telefonaktiebolaget LM Ericsson (publ)	H04W 8/04
(72) LAMARCA, Anthony	(72) WANG, Xiaohui	H04W 40/22
SYDIR, Jaroslaw	ÅKERMAN, Mårten	(11) EP4055848
SKEBA, Kirk	(51) H04W 4/12	(21) EP20781347.8
AGERSTAM, Mats	G06F 3/0481	(47) 12.07.2023
(31) 201213715289	H04M 1/72436	(87) EP2020076923
(32) 14.12.2012	H04W 4/50	14.05.2021
(33) United States of America	G06F 3/0488	(22) 25.09.2020
(51) H04W 4/029	(11) EP3846506	(54) METHOD FOR TRANSMITTING A
H04W 4/021	(21) EP21158879.3	MESSAGE IN A COMMUNICATIONS
H04W 52/02	(47) 12.07.2023	NETWORK FOR COMMUNICATION
H04W 4/80	(22) 30.01.2009	BETWEEN A ROAD USER AND AT
(11) EP3669559	(54) NOTIFICATION OF MOBILE DEVICE	LEAST ONE OTHER ROAD USER
(21) EP18846324.4	EVENTS	(73) Robert Bosch GmbH
(47) 12.07.2023	(73) Google LLC	(72) LLATSER MARTI, Ignacio
(87) US2018044830	(72) YAKSICK, Jeffrey D.	MICHALKE, Thomas
21.02.2019	FRIDGREN, Daniel	FUCHS, Hendrik
(22) 01.08.2018	BAUER, German W.	HOFMANN, Frank
(54) TRACKING DEVICE OPERATION IN	GRIMBERG, Per Claes Olof	DOLGOV, Maxim
SAFETY-CLASSIFIED ZONE	HACKBORN, Dianne K.	SCHIEGG, Florian Alexander
(73) Tile, Inc.	ONORATO, Joseph M.	WILDSCHUETTE, Florian
(72) CHENG, Liuyin	DESALVO, Christopher J.	(31) 102019216916
PATTERSON, Wayne	TSENG, Erick	(32) 04.11.2019
PUPPALA, Arunkumar	(31) 24869 P	(33) Germany
(31) 201715841874	(32) 30.01.2008	(51) H04W 4/40
201715841877	(33) United States of America	H04W 48/18
201715841884	(51) H04W 4/20	H04W 88/06
201715841841	H04L 5/00	(11) EP3968665
201762546454 P	H04W 76/15	(21) EP21196081.0
(32) 14.12.2017	(11) EP3930356	(47) 12.07.2023
14.12.2017	(21) EP20795908.1	(22) 10.09.2021
14.12.2017	(47) 12.07.2023	(54) WIRELESS COMMUNICATION DEVICE,
14.12.2017	(87) CN2020085232	WIRELESS COMMUNICATION
16.08.2017	29.10.2020	SYSTEM, AND WIRELESS
(33) United States of America	(22) 17.04.2020	COMMUNICATION METHOD
United States of America	(54) COMMUNICATION METHOD AND	(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
United States of America	DEVICE	(72) ONISHI, Ryokichi
United States of America	(73) Huawei Technologies Co., Ltd.	(31) 2020154151
United States of America	(72) XU, Haibo	(32) 14.09.2020
(51) H04W 4/029	WANG, Jian	(33) Japan
H04W 4/42	HE, Yanzhao	(51) H04W 4/46
G01S 5/00	KUANG, Yiru	H04W 12/12
G01S 5/02	YAO, Chuting	G08G 1/00
H04B 17/345	(31) 201910327423	G08G 1/0965
(11) EP4068812	(32) 23.04.2019	G08G 1/16
(21) EP21305419.0	(33) China	H04L 9/40
(47) 12.07.2023	(51) H04W 4/40	(11) EP3249626
(22) 31.03.2021	H04W 4/48	(21) EP15878675.6

(47) 12.07.2023	(31) 201514927928	H04W 4/60
(87) JP2015005720	201562113925 P	G06F 21/44
28.07.2016	(32) 30.10.2015	H04W 12/30
(22) 17.11.2015	09.02.2015	H04W 12/06
(54) IRREGULARITY HANDLING METHOD AND ELECTRONIC CONTROL UNIT	(33) United States of America United States of America	H04W 8/18
(73) Panasonic Intellectual Property Corporation of America	(51) H04W 8/06	H04L 61/4588
(72) KISHIKAWA, Takeshi	(11) EP3955608	H04L 101/654
HAGA, Tomoyuki	(21) EP21200817.1	(11) EP3737131
UJIIE, Yoshihiro	(47) 12.07.2023	(21) EP20183373.8
MATSUSHIMA, Hideki	(22) 19.02.2015	(47) 12.07.2023
(31) 2015217211	(54) COMMUNICATION SYSTEM	(22) 09.10.2015
201562105244 P	(73) NEC Corporation	(54) SIM PROVISIONING OF A MOBILE DEVICE
(32) 05.11.2015	(72) LAIR, Yannick	(73) Microsoft Technology Licensing, LLC
20.01.2015	IANEV, Iskren	(72) LOKASAARI, Jussi Tapani
(33) Japan	HANEJI, Hayato	KEKKI, Sami Johannes
United States of America	D'ENNEQUIN, Christophe Le Thierry	ZHANG, Dajiang
(51) H04W 4/50	(31) 201403819	JARVINEN, Antti Jouko Iisakki
G06Q 10/10	(32) 04.03.2014	(51) H04W 12/63
(11) EP2669854	(33) United Kingdom	G01S 11/00
(21) EP13169844.1	(51) H04W 8/18	H04W 64/00
(47) 12.07.2023	H04W 4/00	H04W 4/02
(22) 30.05.2013	H04W 8/00	G06N 7/00
(54) Avoiding a redundant display of a notification on multiple user devices	H04W 8/04	H04W 84/12
(73) Apple Inc.	H04W 8/10	(11) EP3891528
(72) Chaudhri, Imran	(11) EP3780683	(21) EP19892363.3
Lemay, Stephen	(21) EP20193295.1	(47) 12.07.2023
Huang, Ron	(47) 12.07.2023	(87) CA2019051529
Cranfill, Caroline	(22) 13.01.2017	11.06.2020
(31) 201213485221	(54) APPARATUS, METHOD AND COMPUTER PROGRAM FOR REGISTERING WIRELESS DEVICES AND TRANSMITTING INFORMATION	(22) 29.10.2019
(32) 31.05.2012	(73) Koninklijke KPN N.V.	(54) DETERMINING A LOCATION OF MOTION DETECTED FROM WIRELESS SIGNALS
(33) United States of America	Nederlandse Organisatie voor toegepast- natuurwetenschappelijk Onderzoek TNO	(73) Cognitive Systems Corp.
(51) H04W 4/70	(72) SCHENK, Michael	(72) DEVISON, Stephen Arnold
H04W 72/04	NORP, Antonius	OMER, Mohammad
(11) EP3925245	de Kievit, Sander	(31) 201816207673
(21) EP20723511.0	Almodóvar Chico, José	(32) 03.12.2018
(47) 12.07.2023	(31) 16151534	(33) United States of America
(87) IB2020000163	(32) 15.01.2016	(51) H04W 16/14
20.08.2020	(33) European Patent Office (EPO)	(11) EP3403431
(22) 12.02.2020	(51) H04W 8/18	(21) EP17701650.8
(54) SELECTIVELY DEACTIVATING A BANDWIDTH PART	H04W 88/06	(47) 12.07.2023
(73) Lenovo (Singapore) Pte. Ltd.	(11) EP3749000	(87) EP2017050679
(72) GANESAN, Karthikeyan	(21) EP20177045.0	20.07.2017
LOEHR, Joachim	(47) 12.07.2023	(22) 13.01.2017
BASU MALLICK, Prateek	(22) 28.05.2020	(54) SHARED COMMUNICATION SPECTRUM MANAGEMENT
(31) 201962804692 P	(54) METHODS AND APPARATUS TO ACCESS SERVICES OF MULTIPLE WIRELESS NETWORKS BY A SINGLE- RADIO, MULTI-SIM WIRELESS DEVICE	(73) Nederlandse Organisatie voor toegepast- natuurwetenschappelijk onderzoek TNO
(32) 12.02.2019	(73) Apple Inc.	Koninklijke KPN N.V.
(33) United States of America	(72) MATHIAS, Arun G.	(72) TRICHIAS, Konstantinos
(51) H04W 4/70	ABDULRAHIMAN, Najeeb M.	CHRYSALLOS, Manolis
H04W 76/27	MOSKALENKO, Oleg M.	ZHANG, Haibin
H04W 76/38	SINGH, Ajoy K.	(31) 16151240
(11) EP3402303	SITNIKOV, Sergey	(32) 14.01.2016
(21) EP18180972.4	YERRABOMMANAHALLI, Vikram	(33) European Patent Office (EPO)
(47) 12.07.2023	Bhaskara	(51) H04W 16/14
(22) 13.01.2016	WALIA, Abhishek	H04W 76/14
(54) EVOLVED NODE-B, USER EQUIPMENT, METHOD, SYSTEM AND COMPUTER READABLE STORAGE DEVICE FOR TRANSITION BETWEEN IDLE AND CONNECTED MODES	(31) 201962856098 P	H04W 76/16
(73) Intel Corporation	(32) 02.06.2019	H04W 74/08
(72) HEO, Youn Hyoung	(33) United States of America	(11) EP3536005
BANGOLAE, Sangeetha	(51) H04W 12/04	(21) EP16801603.8
FONG, Mo-Han	H04L 9/40	(47) 12.07.2023
BURBIDGE, Richard	H04W 4/50	(87) SE2016051089
		11.05.2018
		(22) 04.11.2016

- (54) COOPERATION BETWEEN NODES OPERATING IN LICENSED AND UNLICENSED SPECTRUM FOR CHANNEL ACCESS IN UNLICENSED SPECTRUM  
(73) Telefonaktiebolaget L M Ericsson (publ)  
(72) RAHMAN, Imadur  
BOUDREAU, Gary  
TEJEDOR, Erika  
KAZMI, Muhammad  
(51) H04W 24/02  
H04L 41/08  
H04W 88/08  
(11) EP3854125  
(21) EP19709772.8  
(47) 12.07.2023  
(87) IB2019050652  
26.03.2020  
(22) 27.01.2019  
(54) FRONTHAUL CONFIGURATION BASED ON FACILITATING CELL ALLOCATION TO BASEBAND UNITS AND HUBS OF A COMMUNICATIONS NETWORK  
(73) Telefonaktiebolaget LM Ericsson (publ)  
(72) ACEDO HERNANDEZ, Rocio  
BUDIC, Miroslav  
ALBA GARCIA, Patricia  
OUTES CARNERO, Jose  
SINGH, Namit  
MOLINA ARRIBERE, Guillermo  
GARCIA FERNANDEZ, Juan Antonio  
MARIA LARRUBIA, Ceron  
(31) 201862743860 P  
201862732843 P  
(32) 10.10.2018  
18.09.2018  
(33) United States of America  
United States of America  
(51) H04W 24/02  
H04W 16/28  
(11) EP3675548  
(21) EP17924909.9  
(47) 12.07.2023  
(87) KR2017014792  
21.03.2019  
(22) 15.12.2017  
(54) DEVICE AND METHOD FOR OPERATING BEAMFORMING IN WIRELESS COMMUNICATION SYSTEM  
(73) Samsung Electronics Co., Ltd.  
(72) CHANG, Sanghyun  
YOON, Sungrok  
(31) 20170119790  
(32) 18.09.2017  
(33) Korea (Republic)  
(51) H04W 24/02  
H04W 28/08  
H04W 76/12  
H04W 40/22  
H04W 76/16  
H04W 84/04  
H04W 92/20  
(11) EP3813481  
(21) EP19822514.6  
(47) 12.07.2023  
(87) CN2019086677  
26.12.2019  
(22) 13.05.2019
- (54) INFORMATION TRANSMISSION METHODS AND SYSTEM  
(73) ZTE Corporation  
(72) CHEN, Lin  
HUANG, Ying  
(31) 201810646835  
(32) 21.06.2018  
(33) China  
(51) H04W 24/10  
H04B 7/04  
H04B 7/10  
H04B 17/309  
H04W 16/28  
H04W 48/16  
H04W 88/02  
H04W 36/00  
H04B 7/08  
H04W 36/30  
(11) EP3562200  
(21) EP18735939.3  
(47) 12.07.2023  
(87) JP2018000055  
12.07.2018  
(22) 05.01.2018  
(54) USER TERMINAL AND RADIO COMMUNICATION METHOD  
(73) NTT DOCOMO, INC.  
(72) LIU, Liu  
JIANG, Huiling  
WANG, Jing  
HARADA, Hiroki  
NAGATA, Satoshi  
(31) 2017001438  
(32) 06.01.2017  
(33) Japan  
(51) H04W 24/10  
H04W 16/18  
H04W 84/10  
H04W 24/08  
(11) EP2624621  
(21) EP11829349.7  
(47) 12.07.2023  
(87) JP2011072570  
05.04.2012  
(22) 30.09.2011  
(54) WIRELESS COMMUNICATION SYSTEM, TERMINAL AND METHOD  
(73) NEC Corporation  
(72) FUTAKI, Hisashi  
(31) 2010224388  
(32) 01.10.2010  
(33) Japan  
(51) H04W 28/02  
H04W 24/02  
(11) EP3944661  
(21) EP20187794.1  
(47) 12.07.2023  
(22) 24.07.2020  
(54) A METHOD IN A TELECOMMUNICATIONS NETWORK, A TELECOMMUNICATIONS NETWORK, AND A USER EQUIPMENT AND BASE STATION AND METHODS THEREIN  
(73) FUJITSU LIMITED  
(72) BUCKNELL, Paul  
MOULSLEY, Timothy  
(51) H04W 28/02  
H04W 76/27
- H04W 76/15  
(11) EP3913966  
(21) EP21185916.0  
(47) 12.07.2023  
(22) 23.03.2018  
(54) METHOD AND DEVICE FOR INDICATING TYPE OF BEARER USED FOR NEXT MESSAGE IN WIRELESS COMMUNICATION SYSTEM  
(73) LG Electronics Inc.  
(72) LEE, Youngdae  
LEE, Jaewook  
KIM, Hongsuk  
KIM, Sangwon  
(31) 201762502614 P  
201762502615 P  
201762480362 P  
201762475866 P  
201762475812 P  
(32) 06.05.2017  
06.05.2017  
01.04.2017  
24.03.2017  
23.03.2017  
(33) United States of America  
United States of America  
United States of America  
United States of America  
United States of America  
(51) H04W 28/04  
H04W 48/12  
H04W 56/00  
(11) EP3833095  
(21) EP21152138.0  
(47) 12.07.2023  
(22) 04.05.2017  
(54) METHOD FOR TRANSMITTING SIGNAL, NETWORK DEVICE AND TERMINAL DEVICE  
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.  
(72) Zhang, Zhi  
TANG, Hai  
(51) H04W 28/12  
H04W 28/02  
(11) EP3583800  
(21) EP19735479.8  
(47) 12.07.2023  
(87) CN2019084134  
31.10.2019  
(22) 24.04.2019  
(54) QoS FLOW CONTROL PARAMETERS SIGNALING  
(73) Telefonaktiebolaget LM Ericsson (publ)  
(72) WIKSTRÖM, Erik  
GAN, Juying  
(31) PCT/CN2018/085165  
(32) 28.04.2018  
(33) World Intellectual Property Office (WIPO)  
(51) H04W 28/16  
H04W 24/02  
(11) EP3704894  
(21) EP18803727.9  
(47) 12.07.2023  
(87) FI2018050789  
09.05.2019  
(22) 30.10.2018

(54) A METHOD AND ARRANGEMENT FOR ALLOCATING COMMUNICATION RESOURCES IN A COMMUNICATION NETWORK	(22) 04.05.2017 (54) MOBILITY MEASUREMENTS (73) Nokia Technologies Oy (72) TURTIMEN, Samuli PIRSKANEN, Juho KOSKELA, Timo	(11) EP3790298 (21) EP18918340.3 (47) 12.07.2023 (87) CN2018086358 14.11.2019 (22) 10.05.2018
(73) Comptel OY (72) GHOSH, Tirthankar (31) 201715802498 (32) 03.11.2017 (33) United States of America	(31) 201662332229 P (32) 05.05.2016 (33) United States of America	(54) METHODS FOR ACQUIRING AND SENDING ROUTE INFORMATION OF UNMANNED AERIAL VEHICLE (73) Beijing Xiaomi Mobile Software Co., Ltd. (72) HONG, Wei
(51) H04W 36/00 H04L 5/00 H04W 48/16 H04W 48/12 H04W 24/10	(51) H04W 36/14 H04W 36/00 H04W 60/04	(73) HONG, Wei (51) H04W 36/32 H04W 48/04 H04W 4/02 H04W 4/42 H04W 28/02 H04W 64/00
(11) EP3618536 (21) EP18792078.0 (47) 12.07.2023 (87) JP2018016793 01.11.2018 (22) 25.04.2018	(11) EP3902326 (21) EP21162574.4 (47) 12.07.2023 (22) 17.11.2018 (54) SESSION ESTABLISHMENT METHOD AND APPARATUS (73) HUAWEI TECHNOLOGIES CO., LTD. (72) ZONG, Zaifeng ZHU, Fenqin	(11) EP3595363 (21) EP18772242.6 (47) 12.07.2023 (87) CN2018079274 27.09.2018 (22) 16.03.2018
(54) BASE STATION DEVICE, TERMINAL APPARATUS, COMMUNICATION METHOD, AND INTEGRATED CIRCUIT	(31) 201810037192 201711148057 (32) 15.01.2018 17.11.2017 (33) China China	(54) ACCESS CONTROL METHOD AND ACCESS NETWORK DEVICE (73) Huawei Technologies Co., Ltd. (72) YAN, Le GUO, Yi
(73) FG INNOVATION COMPANY LIMITED Sharp Kabushiki Kaisha (72) TSUBOI, Hidekazu TAKAHASHI, Hiroki YOKOMAKURA, Kazunari YAMADA, Shohei	(31) 2017088206 (32) 27.04.2017 (33) Japan	(31) 201710184402 (32) 24.03.2017 (33) China
(51) H04W 36/00 H04W 36/14 H04W 88/06	(51) H04W 36/30 H04W 4/06 H04W 84/12 H04W 88/08 H04W 84/18	(51) H04W 40/24 H04W 88/04 H04W 4/00 H04W 84/18
(11) EP3496456 (21) EP18211712.7 (47) 12.07.2023 (22) 11.12.2018	(11) EP3917214 (21) EP21186300.6 (47) 12.07.2023 (22) 17.10.2013 (54) DISTRIBUTED SEAMLESS ROAMING IN WIRELESS NETWORKS (73) Ubiquiti Inc. (72) YANG, Bo-chieh LEE, Yuan-Hsiang PERA, Robert J. LUOH, Keh-Ming DAYANANDAN, Sriram	(11) EP3513597 (21) EP16916330.0 (47) 12.07.2023 (87) SE2016050861 22.03.2018 (22) 15.09.2016
(54) DEVICE AND METHOD OF HANDLING A SYSTEM REDIRECTION PROCEDURE	(73) HTC Corporation (72) TIWARI, Kundan WU, Chih-Hsiang (31) 201762597400 P (32) 11.12.2017 (33) United States of America	(54) METHODS, FIRST TRANSMIT DEVICE AND RELAY DEVICE FOR SUPPORTING WIRELESS COMMUNICATION (73) Telefonaktiebolaget LM Ericsson (publ) (72) FODOR, Gabor AYADURAI, Vicknesan
(51) H04W 36/00 H04W 84/00	(33) United States of America United States of America	(51) H04W 48/12 H04W 48/10
(11) EP3720184 (21) EP20175474.4 (47) 12.07.2023 (22) 03.11.2013	(51) H04W 36/30 H04W 76/19 H04W 48/16 H04W 48/20	(11) EP3711368 (21) EP17829625.7 (47) 12.07.2023 (87) EP2017083340 23.05.2019 (22) 18.12.2017
(54) CONTEXT-AWARE WIRELESS ROAMING	(11) EP3619947 (21) EP17908505.5 (47) 12.07.2023 (87) FI2017050345 08.11.2018 (22) 04.05.2017	(54) TECHNIQUE FOR TRANSMITTING SYSTEM INFORMATION (73) Telefonaktiebolaget LM Ericsson (PUBL) (72) WÄNSTEDT, Stefan
(73) Firetide, Inc. (72) HIRUDAYARAJ, Sudhir BELATHUR SRINIVASA PRASAD, Krishna	(54) MEASUREMENT CONFIGURATION (73) Nokia Technologies Oy (72) SÄILY, Mikko MÄKINEN, Jarmo AWADA, Ahmad	(73) Telefonaktiebolaget LM Ericsson (PUBL) (72) WÄNSTEDT, Stefan SUI, Yutao WANG, Yi-Pin Eric SHREEVASTAV, Ritesh HÖGLUND, Andreas MEDINA ACOSTA, Gerardo Agni
(31) 3427DE2012 (32) 06.11.2012 (33) India	(51) H04W 36/32 H04W 8/24 H04W 36/16	(73) Telefonaktiebolaget LM Ericsson (PUBL) (72) WÄNSTEDT, Stefan SUI, Yutao WANG, Yi-Pin Eric SHREEVASTAV, Ritesh HÖGLUND, Andreas MEDINA ACOSTA, Gerardo Agni
(51) H04W 36/08 H04B 7/06	(51) H04W 36/32 H04W 8/24 H04W 36/16	(73) Telefonaktiebolaget LM Ericsson (PUBL) (72) WÄNSTEDT, Stefan SUI, Yutao WANG, Yi-Pin Eric SHREEVASTAV, Ritesh HÖGLUND, Andreas MEDINA ACOSTA, Gerardo Agni
(11) EP4027704 (21) EP22160241.0 (47) 12.07.2023	(51) H04W 36/32 H04W 8/24 H04W 36/16	(73) Telefonaktiebolaget LM Ericsson (PUBL) (72) WÄNSTEDT, Stefan SUI, Yutao WANG, Yi-Pin Eric SHREEVASTAV, Ritesh HÖGLUND, Andreas MEDINA ACOSTA, Gerardo Agni

(32) 14.11.2017	(54) WIRELESS COMMUNICATION	(33) United States of America
(33) United States of America	METHOD, CONTROL DEVICE, NODE, AND TERMINAL DEVICE	(51) H04W 60/00
(51) H04W 48/12	(73) Huawei Technologies Co., Ltd.	H04W 48/06
H04W 52/02	(72) QIN, Yiping	H04W 28/24
H04W 72/23	XU, Jianbiao	(11) EP3679740
(11) EP3565339	GE, Liwei	(21) EP19863504.7
(21) EP17890128.6	ZHU, Youtuan	(47) 12.07.2023
(47) 12.07.2023	(51) H04W 56/00	(87) JP2019032899
(87) CN2017070482	(11) EP3399811	26.03.2020
12.07.2018	(21) EP17743715.9	(22) 22.08.2019
(22) 06.01.2017	(47) 12.07.2023	(54) PROCEDURE TO UPDATE THE
(54) SERVICE TRANSMISSION METHOD, BASE STATION, AND TERMINAL	(87) CN2017072260	PARAMETERS RELATED TO UNIFIED
(73) GUANGDONG OPPO MOBILE	03.08.2017	ACCESS CONTROL
TELECOMMUNICATIONS CORP., LTD.	(22) 23.01.2017	(73) NEC Corporation
(72) YANG, Ning	(54) METHOD AND DEVICE FOR USE IN	(72) TIWARI, Kundan
XU, Hua	IDENTIFYING SYNCHRONIZATION	TAMURA, Toshiyuki
(51) H04W 48/16	INFORMATION	(31) 201811035318
H04W 36/08	(73) Huawei Technologies Co., Ltd.	(32) 19.09.2018
H04W 36/36	(72) LI, Yuanjie	(33) India
H04W 88/02	ZHANG, Jian	(51) H04W 64/00
(11) EP3522602	WANG, Ting	(11) EP3711392
(21) EP18212160.8	(31) 201610051946	(21) EP18769601.8
(47) 12.07.2023	(32) 26.01.2016	(47) 12.07.2023
(22) 31.03.2015	(33) China	(87) EP2018073445
(54) COMMUNICATION CONNECTION	(51) H04W 56/00	23.05.2019
CONTROL METHOD AND DEVICE	H04W 48/16	(22) 31.08.2018
(73) Huawei Technologies Co., Ltd.	H04W 48/00	(54) METHOD AND DEVICE FOR POSITION
(72) CHEN, Lei	(11) EP3753301	DETERMINATION
WANG, Xiaotong	(21) EP18906275.5	(73) Inpixon
(51) H04W 48/18	(47) 12.07.2023	(72) BUCKO, Michal
H04W 16/14	(87) CN2018076723	VAHDAT-PAJOUH, Darius
(11) EP3419323	22.08.2019	(31) 102017126861
(21) EP17752699.3	(22) 13.02.2018	(32) 15.11.2017
(47) 12.07.2023	(54) CELL INFORMATION ACQUISITION	(33) Germany
(87) CN2017073961	METHOD AND APPARATUS	(51) H04W 72/00
24.08.2017	(73) ZTE Corporation	H04L 27/00
(22) 17.02.2017	(72) LIU, Jing	H04W 72/12
(54) NETWORK DIFFERENTIATION	HUANG, He	(11) EP3703438
METHOD AND APPARATUS	(51) H04W 56/00	(21) EP17930023.1
(73) Baicells Technologies Co. Ltd.	H04W 74/08	(47) 12.07.2023
(72) LU, Yang	H04W 52/02	(87) CN2017107907
ZHOU, Mingyu	(11) EP3972374	02.05.2019
(31) 201610094848	(21) EP19931045.9	(22) 26.10.2017
(32) 19.02.2016	(47) 12.07.2023	(54) UPLINK CONTROL CHANNEL
(33) China	(87) CN2019088418	TRANSMISSION METHOD, TERMINAL
(51) H04W 52/02	03.12.2020	DEVICE AND NETWORK DEVICE
H04W 76/28	(22) 24.05.2019	(73) GUANGDONG OPPO MOBILE
(11) EP3944656	(54) METHOD AND DEVICE FOR RANDOM	TELECOMMUNICATIONS CORP., LTD.
(21) EP19956981.5	ACCESS	(72) LIN, Yanan
(47) 12.07.2023	(73) GUANGDONG OPPO MOBILE	(51) H04W 72/02
(87) CN2019125924	TELECOMMUNICATIONS CORP., LTD.	H04L 1/1867
24.06.2021	(72) SHI, Cong	H04L 5/00
(22) 17.12.2019	(51) H04W 60/00	(11) EP4104568
(54) ENTERING DRX ACTIVE TIME FOR	G06F 21/44	(21) EP21704756.2
DRX GROUPS	H04W 4/00	(47) 12.07.2023
(73) GUANGDONG OPPO MOBILE	(11) EP3799488	(87) EP2021053126
TELECOMMUNICATIONS CORP., LTD.	(21) EP20205238.7	19.08.2021
(72) SHI, Cong	(47) 12.07.2023	(22) 10.02.2021
(51) H04W 56/00	(22) 31.01.2017	(54) METHODS PROVIDING
(11) EP3573385	(54) ATTACH WITHOUT PDN	RESOURCE SELECTION FOR D2D
(21) EP17899268.1	CONNECTIVITY	COMMUNICATIONS AND RELATED
(47) 12.07.2023	(73) Intel Corporation	COMMUNICATION DEVICES
(87) CN2017076111	(72) GUPTA, Vivek	(73) Telefonaktiebolaget LM Ericsson (publ)
13.09.2018	ZAUS, Robert	(72) ORSINO, Antonino
(22) 09.03.2017	JAIN, Puneet	ZHANG, Congchi
(31) 201662293735 P	(31) 201662293735 P	BLASCO SERRANO, Ricardo
(32) 10.02.2016	(32) 10.02.2016	(31) 202062976050 P
		(32) 13.02.2020

(33) United States of America	(54) UPLINK CONTROL INFORMATION TRANSMISSION METHOD AND DEVICE	(72) GUAN, Lei MA, Sha ZHENG, Juan
(51) H04W 72/04	(73) HUAWEI TECHNOLOGIES CO., LTD.	(31) 201710632841
(11) EP3879901	(72) GUO, Jingrui	(32) 28.07.2017
(21) EP19893111.5	YANG, Yubo	(33) China
(47) 12.07.2023	ZHANG, Peng	(51) H04W 72/04
(87) CN2019123287	(31) 201810032725	H04W 72/12
11.06.2020	(32) 12.01.2018	H04L 5/00
(22) 05.12.2019	(33) China	(11) EP3570616
(54) SRS TRANSMISSION METHOD AND APPARATUS	(51) H04W 72/04	(21) EP19183626.1
(73) Huawei Technologies Co., Ltd.	H04W 28/08	(47) 12.07.2023
(72) ZHENG, Xiaojun	H04W 76/11	(22) 26.10.2016
XUE, Chunlin	(11) EP3823389	(54) TERMINAL DEVICE, BASE STATION DEVICE, AND COMMUNICATION METHOD
JIN, Tao	(21) EP20198001.8	(73) Sony Group Corporation
CHEN, Wei	(47) 12.07.2023	(72) SHIMEZAWA, Kazuyuki
(31) 201811489279	(22) 17.05.2016	(31) 2016012197
(32) 06.12.2018	(54) USER PLANE RESOURCE MANAGEMENT METHOD, USER PLANE NETWORK ELEMENT, AND CONTROL PLANE NETWORK ELEMENT	(32) 26.01.2016
(33) China	(73) HUAWEI TECHNOLOGIES CO., LTD.	(33) Japan
(51) H04W 72/04	(72) ZHANG, Yanping	(51) H04W 72/0446
H04L 1/18	ZHOU, Runze	H04L 43/08
(11) EP3614760	CHEN, Zhongping	H04W 52/02
(21) EP17910103.5	(51) H04W 72/04	H04W 4/70
(47) 12.07.2023	H04W 48/12	H04L 67/62
(87) CN2017093946	H04W 48/16	H04W 52/38
22.11.2018	H04L 5/00	(11) EP2728958
(22) 21.07.2017	H04W 84/18	(21) EP13184738.6
(54) METHOD AND APPARATUS FOR INFORMATION TRANSMISSION	H04W 92/18	(47) 12.07.2023
(73) Huawei Technologies Co., Ltd.	H04L 27/26	(22) 17.09.2013
(72) DING, Zhiming	H04L 1/00	(54) Method, apparatus and system for operating machine-to-machine devices
ZHUANG, Hongcheng	(11) EP3977800	(73) Industrial Technology Research Institute
DU, Zhenguo	(21) EP20889048.3	(72) Singh, Shubhranshu
(31) 201710359142	(47) 12.07.2023	(31) 201313973919
(32) 19.05.2017	(87) CN2020109877	201261721786 P
(33) China	27.05.2021	(32) 22.08.2013
(51) H04W 72/04	(22) 18.08.2020	02.11.2012
H04L 5/00	(54) APPARATUS AND METHOD FOR TRANSMITTING OR RECEIVING PHYSICAL SIDELINK BROADCAST CHANNEL	(33) United States of America United States of America
H04B 7/0408	(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.	(51) H04W 72/0446
H04B 7/06	(72) ZHAO, Zhenshan	H04W 72/23
(11) EP3897057	LU, Qianxi	(11) EP3646652
(21) EP20755134.2	LIN, Hui-Ming	(21) EP18743301.6
(47) 12.07.2023	(31) 201962938925 P	(47) 12.07.2023
(87) CN2020075317	PCT/CN2020/077033	(87) US2018040116
20.08.2020	(32) 21.11.2019	03.01.2019
(22) 14.02.2020	27.02.2020	(22) 28.06.2018
(54) INFORMATION INDICATION METHOD AND APPARATUS	(33) United States of America World Intellectual Property Office (WIPO)	(54) METHOD AND APPARATUS FOR DISCONTINUOUS SCHEDULING
(73) Huawei Technologies Co., Ltd.	(51) H04W 72/04	(73) Qualcomm Incorporated
(72) LIU, Kunpeng	H04W 56/00	(72) HUANG, Yi
ZHANG, Di	(11) EP3654713	WANG, Renqiu
(31) 201911072492	(21) EP18838555.3	PARK, Seyong
201910118164	(47) 12.07.2023	GAAL, Peter
(32) 05.11.2019	(87) CN2018096896	AKKARAKARAN, Sony
15.02.2019	31.01.2019	WANG, Xiao Feng
(33) China	(22) 24.07.2018	MONTOJO, Juan
China	(54) SYNCHRONIZATION SIGNAL BLOCK TRANSMISSION METHOD, ACCESS NETWORK DEVICE, AND TERMINAL DEVICE	LUO, Tao
(51) H04W 72/04	(73) Huawei Technologies Co., Ltd.	(31) 201816020915
H04L 5/00		201762527951 P
H04L 1/16		(32) 27.06.2018
H04L 1/18		30.06.2017
H04W 72/12		(33) United States of America United States of America
H04L 1/00		(51) H04W 72/12
(11) EP3735071		(11) EP3434057
(21) EP18899556.7		
(47) 12.07.2023		
(87) CN2018124794		
18.07.2019		
(22) 28.12.2018		



(21) EP17713863.3	(54) METHODS, INFRASTRUCTURE	24.10.2018
(47) 12.07.2023	EQUIPMENT AND COMMUNICATIONS	(33) United States of America
(87) US2017022841	DEVICE	United States of America
28.09.2017	(73) Sony Group Corporation	(51) H04W 74/08
(22) 16.03.2017	(72) WONG, Shin Horng	H04L 5/00
(54) DROPPING A PUCCH IF COLLIDING	SHIMEZAWA, Kazuyuki	(11) EP3711432
WITH A S-PUCCH IN THE SAME	(31) 17194261	(21) EP18804602.3
INTERVAL	(32) 29.09.2017	(47) 12.07.2023
(73) SHARP Kabushiki Kaisha	(33) European Patent Office (EPO)	(87) EP2018081619
(72) NOGAMI, Toshizo	(51) H04W 74/00	23.05.2019
YIN, Zhanping	H04W 74/08	(22) 16.11.2018
(31) 201715460042	H04W 88/08	(54) WINDOW LENGTH OF RANDOM
201662311219 P	H04W 92/10	ACCESS RESPONSE IN NEW RADIO
(32) 15.03.2017	(11) EP3709754	(73) Telefonaktiebolaget LM Ericsson (publ)
21.03.2016	(21) EP18891193.7	(72) CHRISTOFFERSSON, Jan
(33) United States of America	(47) 12.07.2023	SAHLIN, Henrik
United States of America	(87) CN2018090396	IRUKULAPATI, Naga Vishnu Kanth
(51) H04W 72/12	27.06.2019	REIAL, Andres
H04L 5/00	(22) 08.06.2018	(31) 201762587328 P
H04W 72/1268	(54) RANDOM ACCESS METHOD AND	(32) 16.11.2017
(11) EP3817491	DEVICE	(33) United States of America
(21) EP19846686.4	(73) Huawei Technologies Co., Ltd.	(51) H04W 74/08
(47) 12.07.2023	(72) WU, Guoliang	H04W 16/14
(87) KR2019008773	WANG, Xiaopeng	H04W 74/04
13.02.2020	FAN, Hua	(11) EP3335514
(22) 16.07.2019	(31) PCT/CN2017/117104	(21) EP16754116.8
(54) GRANT-FREE TRANSMISSION	(32) 19.12.2017	(47) 12.07.2023
METHODS AND APPARATUSES	(33) World Intellectual Property Office (WIPO)	(87) US2016046764
FOR NON-ORTHOGONAL	(51) H04W 74/08	16.02.2017
MULTIPLE ACCESS IN WIRELESS	(11) EP3582574	(22) 12.08.2016
COMMUNICATION SYSTEM	(21) EP17902014.4	(54) CONTENTION-BASED CO-EXISTENCE
(73) Samsung Electronics Co., Ltd.	(47) 12.07.2023	ON A SHARED COMMUNICATION
(72) KANG, Jinkyu	(87) CN2017078185	MEDIUM
KIM, Youngbum	27.09.2018	(73) Qualcomm Incorporated
OH, Jinyoung	(22) 24.03.2017	(72) SADEK, Ahmed Kamel
CHOI, Seunghoon	(54) RANDOM ACCESS METHOD AND	RADULESCU, Andrei Dragos
KIM, Taehyoung	APPARATUS, DEVICE, AND STORAGE	VALLIAPPAN, Nachiappan
(31) 20180094004	MEDIUM	KADOUS, Tamer Adel
(32) 10.08.2018	(73) Huawei Technologies Co., Ltd.	(31) 201615234959
(33) Korea (Republic)	(72) ROLLINGER, Odile	201562204303 P
(51) H04W 72/1268	YU, Yinghui	(32) 11.08.2016
H04W 72/115	SHAN, Baokun	12.08.2015
H04W 72/23	JIN, Zhe	(33) United States of America
(11) EP3570607	(51) H04W 74/08	United States of America
(21) EP18748626.1	H04L 1/1812	(51) H04W 74/08
(47) 12.07.2023	H04L 1/1867	H04W 28/02
(87) CN2018075223	H04L 5/00	H04W 56/00
09.08.2018	H04W 56/00	(11) EP3531789
(22) 05.02.2018	(11) EP3871466	(21) EP19161706.7
(54) REDUCING THE TRANSMISSION	(21) EP19804965.2	(47) 12.07.2023
DELAY AND IMPROVING THE	(47) 12.07.2023	(22) 03.09.2014
RELIABILITY OF UPLINK DATA	(87) US2019057848	(54) COMMUNICATIONS DEVICE FOR
(73) Huawei Technologies Co., Ltd.	30.04.2020	IMPROVING THE TRANSMISSION OF
(72) LYU, Yongxia	(22) 24.10.2019	RANDOM ACCESS MESSAGES
MA, Ruixiang	(54) MESSAGE 2 OF A TWO-STEP	(73) Sony Group Corporation
(31) 201710065963	RANDOM ACCESS PROCEDURE AND	(72) MARTIN, Brian Alexander
(32) 06.02.2017	COEXISTENCE WITH FOUR-STEP	(31) 13185460
(33) China	RANDOM ACCESS PROCEDURE	(32) 20.09.2013
(51) H04W 72/23	(73) QUALCOMM Incorporated	(33) European Patent Office (EPO)
H04W 72/0446	(72) ZHANG, Xiaoxia	(51) H04W 74/08
(11) EP3673692	SUN, Jing	H04W 56/00
(21) EP18752168.7	FAKOORIAN, Seyed Ali Akbar	H04W 8/00
(47) 12.07.2023	OZTURK, Ozcan	(11) EP3291629
(87) EP2018072137	DAMNJANOVIC, Aleksandar	(21) EP17197682.2
04.04.2019	YERRAMALLI, Srinivas	(47) 12.07.2023
(22) 15.08.2018	(31) 201916661609	(22) 16.01.2014
	201862750070 P	(54) ARRANGEMENTS FOR FRAME
	(32) 23.10.2019	TRANSMISSIONS

(73) Intel Corporation	(33) United States of America	(32) 28.09.2018
(72) PARK, Minyoung	United States of America	(33) United States of America
QI, Emily	United States of America	(51) H04W 76/16
STEPHENS, Adrian	(51) H04W 76/12	H04W 76/19
HUANG, Po-Kai	H04W 28/02	H04W 88/06
(31) 201313931921	H04W 28/06	H04W 52/36
201361753108 P	H04W 24/02	(11) EP3874839
(32) 29.06.2013	H04L 1/08	(21) EP19805103.9
16.01.2013	H04L 5/00	(47) 12.07.2023
(33) United States of America	H04W 76/22	(87) US2019058805
United States of America	H04W 88/08	07.05.2020
(51) H04W 74/08	H04W 92/12	(22) 30.10.2019
H04W 72/12	H04W 92/20	(54) SUSTAINING LONG TERM EVOLUTION
(11) EP3133859	H04W 76/15	TRAFFIC IN POWER LIMITED DUAL
(21) EP14893637.0	(11) EP3908073	CONNECTIVITY SCENARIOS
(47) 12.07.2023	(21) EP21181626.9	(73) QUALCOMM INCORPORATED
(87) CN2014078918	(47) 12.07.2023	(72) WANG, Shanshan
03.12.2015	(22) 04.05.2018	SHI, Yongsheng
(22) 30.05.2014	(54) METHODS AND DEVICES FOR	SHAHIDI, Reza
(54) METHODS AND APPARATUS FOR	TRANSFERRING SUPPLEMENTARY	ANCHAN, Kirankumar, Bhoja
ESTABLISHING UPLINK MULTI-USER	UPLINK CARRIER CONFIGURATION	(31) 201916667701
MULTI-INPUT MULTI-OUTPUT	INFORMATION	201862753610 P
(73) Huawei Technologies Co. Ltd.	(73) Samsung Electronics Co., Ltd.	(32) 29.10.2019
(72) YANG, Xun	(72) Wang, Hong	31.10.2018
LIN, Yingpei	Xu, Lixiang	(33) United States of America
LUO, Yi	Ke, Xiaowan	United States of America
(51) H04W 74/08	Wang, Weiwei	(51) H04W 76/19
H04W 76/18	(31) 201810028304	H04W 4/80
H04W 16/14	201810024386	H04W 76/14
(11) EP3973741	201710461700	H04W 84/18
(21) EP20889098.8	201710316543	(11) EP3955694
(47) 12.07.2023	(32) 11.01.2018	(21) EP20847276.1
(87) CN2020129858	10.01.2018	(47) 12.07.2023
27.05.2021	16.06.2017	(87) CN2020094715
(22) 18.11.2020	05.05.2017	04.02.2021
(54) LBT FAILURE RECOVERY	(33) China	(22) 05.06.2020
(73) GUANGDONG OPPO MOBILE	China	(54) METHOD AND APPARATUS FOR
TELECOMMUNICATIONS CORP., LTD.	China	BACK-CONNECTING BLUETOOTH
(72) LI, Haitao	China	DEVICE, TERMINAL AND COMPUTER-
SHI, Cong	China	READABLE STORAGE MEDIUM
(31) 201962937255 P	(51) H04W 76/12	(73) Oneplus Technology (Shenzhen) Co.,
(32) 18.11.2019	H04W 76/15	Ltd.
(33) United States of America	(11) EP3668253	(72) WEN, Xuejie
(51) H04W 74/08	(21) EP17922883.8	(31) 201910688818
H04W 84/12	(47) 12.07.2023	(32) 29.07.2019
H04W 88/06	(87) CN2017098352	(33) China
(11) EP3716722	28.02.2019	(51) H04W 76/19
(21) EP20166301.0	(22) 21.08.2017	H04W 76/15
(47) 12.07.2023	(54) DATA TRANSMISSION METHODS AND	(11) EP3925398
(22) 27.03.2020	DEVICES	(21) EP20755352.0
(54) SYSTEM AND METHOD FOR	(73) Beijing Xiaomi Mobile Software Co., Ltd.	(47) 12.07.2023
SYNCHRONOUS INDEPENDENT	(72) JIANG, Xiaowei	(87) KR2020001828
CHANNEL ACCESS IN A WIRELESS	(51) H04W 76/15	20.08.2020
NETWORK	(11) EP3858086	(22) 10.02.2020
(73) MediaTek Singapore Pte. Ltd.	(21) EP19769928.3	(54) DEVICE AND METHOD FOR
(72) CHENG, Po-Yuen	(47) 12.07.2023	TRANSMITTING STATE INFORMATION
LIU, Jianhan	(87) SE2019050848	IN WIRELESS COMMUNICATION
SEOK, Yongho	02.04.2020	SYSTEM
TSAO, Weisung	(22) 10.09.2019	(73) Samsung Electronics Co., Ltd.
YEE, James Chih-Shi	(54) METHODS AND APPARATUS FOR	(72) KIM, Soenghun
PARE, JR., Thomas Edward	HANDLING DUAL CONNECTIVITY IN	BAEK, Sangkyu
KU, Chung-Ta	REDUNDANCY TRANSMISSION	KANG, Hyunjeong
(31) 202016828606	(73) TELEFONAKTIEBOLAGET LM	(31) 20190174454
201962838976 P	ERICSSON (PUBL)	20190035854
201962825074 P	(72) DUDDA, Torsten	20190017444
(32) 24.03.2020	SCHLIWA-BERTLING, Paul	(32) 24.12.2019
26.04.2019	SHI, Nianshan	28.03.2019
28.03.2019	MIKLÓS, György	14.02.2019
	(31) 201862738124 P	

(33) Korea (Republic)	(31) 201916425146	(47) 12.07.2023
Korea (Republic)	201862679438 P	(87) CA2017050527
Korea (Republic)	(32) 29.05.2019	09.11.2017
(51) H04W 76/27	01.06.2018	(22) 01.05.2017
(11) EP3791687	(33) United States of America	(54) SYSTEM AND METHOD OF REDUCING
(21) EP19733124.2	United States of America	SPECIFIC ABSORPTION RATE FROM
(47) 12.07.2023	(51) H04W 76/40	MOBILE DEVICES
(87) IB2019053876	(11) EP3578004	(73) LEAP COMTEC LIMITED
14.11.2019	(21) EP18747886.2	(72) MOHAMED, Ibrahim O.
(22) 10.05.2019	(47) 12.07.2023	HUSSEIN, Hussein M.
(54) RELEASE CAUSE FOR TRANSITION	(87) US2018012059	HUSSEIN, Abdulkadir M.
FROM CONNECTED STATE	09.08.2018	(31) 2928994
(73) Telefonaktiebolaget LM Ericsson (publ)	(22) 02.01.2018	(32) 05.05.2016
(72) LINDHEIMER, Christofer	(54) SYNCHRONIZATION SIGNAL	(33) Canada
MILDH, Gunnar	TRANSMISSION AND RECEPTION	(51) H04W 88/10
DA SILVA, Icaro L. J.	FOR RADIO SYSTEM	H04L 69/08
SUSITAIVAL, Riikka	(73) SHARP Kabushiki Kaisha	H04L 69/18
ARSHAD, Malik Wahaj	FG INNOVATION COMPANY LIMITED	H04L 69/14
(31) 201862669804 P	(72) AIBA, Tatsushi	(11) EP3841837
(32) 10.05.2018	SHENG, Jia	(21) EP19725772.8
(33) United States of America	NOGAMI, Toshizo	(47) 12.07.2023
(51) H04W 76/28	(31) 201762454016 P	(87) EP2019063767
(11) EP3566540	(32) 02.02.2017	27.02.2020
(21) EP17700156.7	(33) United States of America	(22) 28.05.2019
(47) 12.07.2023	(51) H04W 80/04	(54) MULTI-PATH ACCESS NETWORK
(87) EP2017050159	H04W 60/00	(73) Tessares SA
12.07.2018	H04L 61/5007	(72) BAERTS, Matthieu
(22) 04.01.2017	H04L 69/32	DETAL, Gregory
(54) DEVICE AND METHOD FOR	H04L 101/677	(31) 18190299
CONTROLLING IDLE MODE	(11) EP3582471	(32) 22.08.2018
DISCONTINUOUS RECEPTION	(21) EP17899417.4	(33) European Patent Office (EPO)
(73) Telefonaktiebolaget LM Ericsson (PUBL)	(47) 12.07.2023	(51) H05B 3/84
(72) REIAL, Andres	(87) CN2017075991	H05B 3/20
ÅSTRÖM, Magnus	13.09.2018	H01B 5/14
LINDOFF, Bengt	(22) 08.03.2017	H01B 1/02
(51) H04W 76/30	(54) COMMUNICATION METHODS AND	B32B 17/10
H04W 76/27	APPARATUSES	B32B 3/26
H04W 68/00	(73) Huawei Technologies Co., Ltd.	B32B 15/09
(11) EP3579655	(72) YANG, Jiao	B32B 15/20
(21) EP17894831.1	TANG, Tingfang	B32B 23/20
(47) 12.07.2023	LI, Yan	B32B 27/28
(87) CN2017072863	(51) H04W 84/06	B32B 27/32
09.08.2018	B64C 13/18	B32B 27/36
(22) 03.02.2017	B64C 39/02	(11) EP3723450
(54) CONNECTION RELEASE METHOD	B64D 27/24	(21) EP18885326.1
AND SYSTEM, AND COMPUTER	G08G 5/00	(47) 12.07.2023
READABLE STORAGE MEDIUM	H04W 4/30	(87) KR2018015313
(73) Huawei Technologies Co., Ltd.	H04W 16/26	13.06.2019
(72) ZHANG, Jian	H04W 24/04	(22) 05.12.2018
LI, Bingzhao	(11) EP3826425	(54) HEATING FILM AND METHOD FOR
QUAN, Wei	(21) EP19856257.1	MANUFACTURING SAME
(51) H04W 76/34	(47) 12.07.2023	(73) LG Chem, Ltd.
H04W 80/02	(87) JP2019029240	(72) SON, Yong Goo
H04W 88/02	05.03.2020	LEE, Seung Heon
(11) EP3804455	(22) 25.07.2019	KIM, Jooyeon
(21) EP19731842.1	(54) CONTROL DEVICE, PROGRAM, AND	LEE, Kiseok
(47) 12.07.2023	CONTROL METHOD	YOON, Jung Il
(87) US2019034535	(73) Hapsmobile Inc.	SEONG, Jiehyun
05.12.2019	(72) WAKIKAWA, Ryuji	PARK, Jong Sung
(22) 30.05.2019	(31) 2018157914	SON, Sang Hoon
(54) RADIO LINK FAILURE (RLF)	(32) 27.08.2018	(31) 20180145328
PROCEDURE WITH GENERIC CELL	(33) Japan	20170168349
GROUP MANAGEMENT	(51) H04W 88/02	(32) 22.11.2018
(73) QUALCOMM INCORPORATED	H04B 1/3827	08.12.2017
(72) HORN, Gavin Bernard	H04W 52/02	(33) Korea (Republic)
YU, Yu-Ting	H04M 1/725	Korea (Republic)
PALADUGU, Karthika	(11) EP3453224	(51) H05B 6/10
KUBOTA, Keiichi	(21) EP17792323.2	B01J 19/00

B01J 19/08	03.12.2020	H05B 47/155
H05B 6/06	(22) 27.05.2020	H05B 47/175
H05B 6/02	(54) HOUSEHOLD MICROWAVE DEVICE	(11) EP3970452
C07K 1/04	COMPRISING A DETECTION UNIT FOR	(21) EP20721650.8
(11) EP3311630	DETECTING MICROWAVE LEAKAGE	(47) 12.07.2023
(21) EP16812457.6	RADIATION	(87) EP2020062254
(47) 12.07.2023	(73) BSH Hausgeräte GmbH	19.11.2020
(87) US2016037911	(72) KÜCHLER, Markus	(22) 04.05.2020
22.12.2016	KAISER, Andreas	(54) A CONTROLLER FOR CONTROLLING
(22) 16.06.2016	BÖTTCHER, Christian	A PLURALITY OF LIGHTING UNITS OF
(54) CHEMICAL REACTION VESSEL AND	(31) 102019207978	A LIGHTING SYSTEM AND A METHOD
SYNTHESIS SYSTEMS AND METHODS	(32) 30.05.2019	THEREOF
(73) Protein Technologies, Inc.	(33) Germany	(73) Signify Holding B.V.
(72) CAIN, James P.	(51) H05B 6/70	(72) BROEKMAN, Paul, Ulco
RIBBLETT, David W.	H05B 6/78	STAVENUITER, Simone, Maria
WADDELL, Alexander S.	(11) EP3461231	RYCROFT, Simon
(31) 201562182192 P	(21) EP18196564.1	(31) 19174675
(32) 19.06.2015	(47) 12.07.2023	(32) 15.05.2019
(33) United States of America	(22) 25.09.2018	(33) European Patent Office (EPO)
(51) H05B 6/10	(54) APPLICATOR FOR THERMALLY	(51) H05B 45/10
C23C 16/458	ACTIVATING A FUNCTIONAL LAYER	H05B 47/175
C23C 16/46	OF A COATING MATERIAL	F21S 8/08
C23C 16/12	(73) HOMAG GmbH	F21V 5/00
C30B 25/12	(72) Würz, Jonathan	F21V 23/04
(11) EP3569035	(31) 102017122249	F21Y 115/10
(21) EP18701585.4	(32) 26.09.2017	F21Y 115/15
(47) 12.07.2023	(33) Germany	F21W 111/02
(87) IB2018050157	(51) H05B 45/10	(11) EP3243023
19.07.2018	(11) EP3072156	(21) EP16700047.0
(22) 10.01.2018	(21) EP14802199.1	(47) 12.07.2023
(54) SUSCEPTORS FOR INDUCTION	(47) 12.07.2023	(87) EP2016050076
HEATING WITH THERMAL	(87) IB2014065866	14.07.2016
UNIFORMITY	28.05.2015	(22) 05.01.2016
(73) King Fahd University of Petroleum and	(22) 07.11.2014	(54) METHOD FOR CONTROLLING
Minerals	(54) METHODS AND APPARATUS FOR	THE LIGHT DISTRIBUTION OF A
King Abdullah University of Science and	CONTROLLING ILLUMINATION OF A	LUMINAIRE
Technology	MULTIPLE LIGHT SOURCE LIGHTING	(73) Schreder
(72) Li, Kuang-Hui	UNIT	(72) RICHTER, Jörg
ALOTAIBI, Hamad Saud	(73) Signify Holding B.V.	SCHRÖDER, Helmut
Li, Xiaohang	(72) NEWTON, Philip Steven	WELLENS, Didier
(31) 201762444877 P	CLOUT, Ramon Antoine Wiro	BRAND, Daniel
201762444558 P	DEKKER, Tim	(31) 15150120
(32) 11.01.2017	RIGOT, Bertrand	(32) 05.01.2015
10.01.2017	KNAAPEN, Bram	(33) European Patent Office (EPO)
(33) United States of America	VAN DE SLUIS, Bartel Marinus	(51) H05B 45/20
United States of America	VERBUCKEN, Maria Hendrica	H05B 47/10
(51) H05B 6/50	(31) 201361906481 P	H05B 47/19
G01R 29/08	(32) 20.11.2013	(11) EP3972389
(11) EP3748376	(33) United States of America	(21) EP21201770.1
(21) EP20150395.0	(51) H05B 45/10	(47) 12.07.2023
(47) 12.07.2023	H05B 45/20	(22) 07.05.2019
(22) 06.01.2020	H05B 47/105	(54) A LIGHTING SYSTEM
(54) DETECTOR FOR HEATING APPLIANCE	(11) EP3868180	(73) Signify Holding B.V.
(73) NXP USA, Inc.	(21) EP19828877.1	(72) OLDENBURGER, David
(72) Wu, Dong	(47) 12.07.2023	POLMAN, Robertus, Johannes
Liu, Tonghe	(87) NL2019050673	KOOY, Gerrit, Jacob
Mongin, Lionel	23.04.2020	(31) 18177671
Hua, Qi	(22) 10.10.2019	18171295
Lester, David Paul	(54) DEVICE FOR THE INTERACTIVE AND	(32) 14.06.2018
Wang, Changyang	LOCATION-DEPENDENT CONTROL OF	08.05.2018
(31) 201910495618	LIGHTING PROPERTIES	(33) European Patent Office (EPO)
(32) 06.06.2019	(73) Liftsens Holding B.V.	European Patent Office (EPO)
(33) China	(72) MIDDELBOS, Roy	(51) H05B 47/19
(51) H05B 6/64	NIJS, Hendrik Frederik Jan Anton	(11) EP3836761
(11) EP3977817	(31) 2021833	(21) EP19216034.9
(21) EP20728747.5	(32) 18.10.2018	(47) 12.07.2023
(47) 12.07.2023	(33) Netherlands	(22) 13.12.2019
(87) EP2020064690	(51) H05B 45/10	

(54) A GATEWAY DEVICE AND A METHOD FOR CONNECTING LIGHTING SYSTEM ELEMENTS TO A DATA TRANSFER NETWORK	(22) 03.11.2020	(31) 20130087522
(73) Helvar Oy Ab	(54) AN LED FILAMENT LAMP AND A METHOD OF PRODUCING A SPIRAL LED FILAMENT	(32) 24.07.2013
(72) AHOLA, Jukka	(73) Signify Holding B.V.	(33) Korea (Republic)
(51) H05B 47/19	(72) HIKMET, Rifat, Ata, Mustafa VAN BOMMEL, Ties	(51) H05K 3/00
(11) EP4066600	(31) 19208236	H05H 1/34
(21) EP20807802.2	(32) 11.11.2019	H05K 3/38
(47) 12.07.2023	(33) European Patent Office (EPO)	H05K 3/24
(87) EP2020083021	(51) H05K 1/02	H05K 3/26
03.06.2021	H05K 1/18	(11) EP3659407
(22) 23.11.2020	H05K 3/00	(21) EP18747015.8
(54) A LIGHTING UNIT FOR EXECUTING MULTIPLE LIGHTING CONTROL COMMANDS AND A METHOD THEREOF	F21S 45/47	(47) 12.07.2023
(73) Signify Holding B.V.	(11) EP3209098	(87) IB2018054847
(72) ALIAKSEYEU, Dzmitry, Viktorovich WORM, Kevin,Thomas	(21) EP17155663.2	31.01.2019
(31) 19212161	(47) 12.07.2023	(22) 29.06.2018
(32) 28.11.2019	(22) 10.02.2017	(54) METHOD AND EQUIPMENT FOR THE TREATMENT OF PANELS
(33) European Patent Office (EPO)	(54) LIGHT MODULE FOR A MOTOR VEHICLE WITH GROUND SOCKET	(73) Wise S.R.L.
(51) H05H 1/24	(73) Valeo Vision	(72) FIORANI, Massimo
H01J 37/32	(72) BADIA, Olivier	(31) 201700083957
(11) EP3508038	(31) 1651409	(32) 24.07.2017
(21) EP17847685.9	(32) 22.02.2016	(33) Italy
(47) 12.07.2023	(33) France	(51) H05K 3/24
(87) US2017050087	(51) H05K 1/02	H05K 3/34
08.03.2018	H05K 3/40	H05K 3/12
(22) 05.09.2017	H05K 1/11	H05K 1/09
(54) FREE RADICAL GENERATION DEVICE AND METHODS THEREOF	H05K 1/18	(11) EP3694299
(73) Somnio Global Holdings, LLC	H05K 3/12	(21) EP19156144.8
(72) VARADARAJAN, Vikram	(11) EP3143847	(47) 12.07.2023
SWAMY NAIDU UGAPATHY, Raj, Siman CHUNDURI, Tejasvi	(21) EP15726023.3	(22) 08.02.2019
MOHANTY, Pravansu, S.	(47) 12.07.2023	(54) METHOD FOR PRODUCING A SOLDER CONNECTION
APPIA, Vigneswaran, Hirachand GOLOTA, Volodymyr	(87) EP2015060681	(73) FM Siebdruck Werbung Design GmbH
(31) 201662383046 P	EP.11.2015	(72) Bayer, Michael
(32) 02.09.2016	(54) METHOD FOR MANUFACTURING A CONDUCTOR TRACK WITH ENLARGEMENT-FREE TRANSITION BETWEEN CONDUCTOR PATH AND CONTACT STRUCTURE	(51) H05K 3/30
(33) United States of America	(73) AT & S Austria Technologie & Systemtechnik Aktiengesellschaft	F21K 99/00
(51) H05H 1/28	(72) VOCKENBERGER, Christian	H05K 3/34
B23K 9/32	MORIANZ, Mike	H05K 3/00
H05H 1/34	LEITGEB, Markus	(11) EP2983458
(11) EP3556184	STAHR, Johannes	(21) EP15176966.8
(21) EP17829440.1	SCHRITTWIESER, Wolfgang	(47) 12.07.2023
(47) 12.07.2023	(31) 503392014	(22) 16.07.2015
(87) US2017067046	(32) 14.05.2014	(54) METHOD FOR FIXING A SMD SEMICONDUCTOR LIGHT SOURCE ON A CIRCUIT BOARD OF A HEADLIGHT OF A VEHICLE
28.06.2018	(33) Austria	(73) Marelli Automotive Lighting Reutlingen (Germany) GmbH
(22) 18.12.2017	(51) H05K 1/14	(72) Gottheil, Martin
(54) PLASMA TORCH LEAD PLUG AND METHOD OF CONNECTING THIS LEAD PLUG TO A LIQUID-COOLED PLASMA CUTTING SYSTEM	H05K 3/36	Schmid, Oliver
(73) Hypertherm, Inc.	H05K 1/11	(31) 102014215606
(72) BELIVEAU, Jeremy	H05K 1/18	(32) 06.08.2014
(31) 201662436203 P	H05K 3/32	(33) Germany
(32) 19.12.2016	(11) EP3010060	(51) H05K 5/00
(33) United States of America	(21) EP14829789.8	A61B 5/024
(51) H05K 1/02	(47) 12.07.2023	B32B 7/04
H05K 1/11	(87) KR2014006732	(11) EP4013197
(11) EP4059326	29.01.2015	(21) EP21204222.0
(21) EP20797499.9	(22) 24.07.2014	(47) 12.07.2023
(47) 12.07.2023	(54) STRUCTURE OF FLEXIBLE PRINTED CIRCUIT BOARDS	(22) 22.10.2021
(87) EP2020080719	(73) LG Display Co., Ltd.	(54) DEVICE AND FORMING METHOD OF DEVICE
20.05.2021	(72) OH, Ducksu	(73) Japan Aviation Electronics Industry, Limited
	PARK, Sung Soo	(72) HASHIGUCHI, Osamu
	KANG, Minsoo	UEDA, Shinji
		(31) 2020205499
		(32) 11.12.2020

(33) Japan	(72) Persson, Madeleine	(54) VERTICAL NONVOLATILE MEMORY DEVICE INCLUDING MEMORY CELL STRING
(51) H05K 5/02	(51) H05K 7/20	(73) Samsung Electronics Co., Ltd.
F16M 13/02	(11) EP3824705	(72) KIM, Jinhong
G09F 9/00	(21) EP19778860.7	CHO, Youngjin
H04N 5/64	(47) 12.07.2023	KIM, Seyun
F16B 45/00	(87) EP2019074781	(31) 20200089858
F16M 11/04	02.04.2020	(32) 20.07.2020
(11) EP3557958	(22) 17.09.2019	(33) Korea (Republic)
(21) EP17884592.1	(54) POWER CONVERTER WITH A SEPARATE INTERIOR	(51) H10K 50/12
(47) 12.07.2023	(73) Siemens Aktiengesellschaft	H10K 85/60
(87) JP2017044293	(72) LODES, Stefan	(11) EP3809479
28.06.2018	FRANA, Christian	(21) EP19203056.7
(22) 11.12.2017	NIEBERLEIN, Klaus	(47) 12.07.2023
(54) ATTACHMENT DEVICE, ELECTRONIC DEVICE, ATTACHMENT DEVICE SECURING METHOD, AND SHEET	(31) 18197064	(22) 14.10.2019
(73) Panasonic Intellectual Property Management Co., Ltd.	(32) 27.09.2018	(54) ORGANIC ELECTROLUMINESCENT DEVICE EMITTING BLUE LIGHT
(72) TANIGUCHI Akira	(33) European Patent Office (EPO)	(73) Samsung Display Co., Ltd.
KAWAGUCHI Satoshi	(51) H05K 7/20	(72) Kasperek, Christian
(31) 2016245052	F24F 1/032	Koch, Federico
2016245051	F24F 12/00	(51) H10K 50/17
(32) 19.12.2016	(11) EP4033869	H10K 50/19
19.12.2016	(21) EP22152383.0	(11) EP3016158
(33) Japan	(47) 12.07.2023	(21) EP14845861.5
Japan	(22) 20.01.2022	(47) 12.07.2023
(51) H05K 7/14	(54) COOLING SYSTEM AND DATA CENTER	(87) KR2014008655
(11) EP3939396	(73) Huawei Digital Power Technologies Co., Ltd.	26.03.2015
(21) EP20707113.5	(72) PU, Mingming	(22) 17.09.2014
(47) 12.07.2023	YANG, Zonghao	(54) ORGANIC LIGHT-EMITTING ELEMENT
(87) EP2020055579	LI, Jian	(73) LG Display Co., Ltd.
17.09.2020	(31) 202110100476	(72) PARK, Min Choon
(22) 03.03.2020	(32) 25.01.2021	YOU, Jina
(54) ELECTRONIC SYSTEM AND ELECTRICAL ASSEMBLY	(33) China	JOO, Mun Kyu
(73) VALEO EQUIPEMENTS ELECTRIQUES MOTEUR	(51) H10B 53/30	MOON, Jeamin
(72) VARILLON, Mathieu	H10B 53/20	(31) 20130112124
HOSNI, Alexis	H10B 41/27	(32) 17.09.2013
(31) 1902545	G11C 11/22	(33) Korea (Republic)
(32) 13.03.2019	G11C 11/56	(51) H10K 50/844
(33) France	(11) EP3827432	H10K 59/12
(51) H05K 7/20	(21) EP19849939.4	H10K 59/80
(11) EP3939397	(47) 12.07.2023	(11) EP3923337
(21) EP20711546.0	(87) CN2019096974	(21) EP20847081.5
(47) 12.07.2023	20.02.2020	(47) 12.07.2023
(87) EP2020056370	(22) 22.07.2019	(87) CN2020081524
17.09.2020	(54) THREE-DIMENSIONAL FERROELECTRIC MEMORY DEVICES	04.02.2021
(22) 10.03.2020	(73) Wuxi Smart Memories Technologies, Co., Ltd.	(22) 27.03.2020
(54) COOLING OF ELECTRONIC COMPONENTS WITH AN ELECTROHYDRODYNAMIC FLOW UNIT	(72) HU, Yushi	(54) DISPLAY PANEL, PREPARATION METHOD THEREFOR AND DISPLAY APPARATUS
(73) APR Technologies AB	LU, Zhenyu	(73) Yungu (Gu'an) Technology Co., Ltd.
(72) BJÖRNEKLETT, Are	TAO, Qian	(72) MI, Lei
NILSSON, Peter	PAN, Feng	YAN, Zhimin
THORSLUND, Robert	(31) 201916450973	XU, Pinquan
(31) 1950305	201816102667	ZHAO, Chengyu
(32) 11.03.2019	(32) 24.06.2019	(31) 201911120612
(33) Sweden	13.08.2018	201910703770
(51) H05K 7/20	(33) United States of America	(32) 15.11.2019
(11) EP3742875	United States of America	31.07.2019
(21) EP19175952.1	(51) H10B 80/00	(33) China
(47) 12.07.2023	G11C 13/00	China
(22) 22.05.2019	H10B 63/00	(51) H10K 59/12
(54) THERMAL MANAGEMENT IN AN ELECTRONIC DEVICE	(11) EP3944326	H10K 59/121
(73) Veoneer Sweden AB	(21) EP21180142.8	H10K 50/844
	(47) 12.07.2023	H10K 59/131
	(22) 17.06.2021	(11) EP3690951
		(21) EP20153896.4
		(47) 12.07.2023

(22) 27.01.2020	COMBS TO COME INTO CONTACT
(54) DISPLAY DEVICE	WITH ONE ANOTHER
(73) Samsung Display Co., Ltd.	(73) Commissariat à l'Energie Atomique et
(72) PARK, Ju Chan	aux Energies Alternatives
LEE, Sun Hee	(72) SAVELLI, Guillaume
JI, Seon Beom	NAVONE, Christelle
KIM, Hyun	(31) 2009910
KIM, Sun Ho	(32) 29.09.2020
(31) 20190011860	(33) France
(32) 30.01.2019	<hr/>
(33) Korea (Republic)	(51) H10N 30/50
(51) H10K 59/121	H02N 2/00
H10K 59/122	H02N 2/02
H10K 71/13	(11) EP3935673
(11) EP3276666	(21) EP20711072.7
(21) EP17181843.8	(47) 12.07.2023
(47) 12.07.2023	(87) EP2020055668
(22) 18.07.2017	10.09.2020
(54) DISPLAY DEVICE	(22) 04.03.2020
(73) LG Display Co., Ltd.	(54) METHOD FOR OPERATING AN
(72) LEE, Sam-Jong	ELECTROMECHANICAL ELEMENT,
BAEK, Heum-II	ACTUATOR, DRIVE DEVICE AND
BAE, Kyoung-Ji	MOTOR
(31) 20160097020	(73) Physik Instrumente (PI) GmbH & Co. KG
(32) 29.07.2016	(72) KOC, Burhanettin
(33) Korea (Republic)	(31) 102019001579
(51) H10K 59/131	(32) 06.03.2019
H10K 59/122	(33) Germany
H10K 50/814	<hr/>
H10K 50/818	(51) H10N 50/10
(11) EP3163624	H10N 50/85
(21) EP16196395.4	H10N 70/20
(47) 12.07.2023	G11C 11/22
(22) 28.10.2016	G11C 11/16
(54) ORGANIC LIGHT EMITTING	(11) EP3834235
DISPLAY DEVICE AND METHOD OF	(21) EP19753430.8
MANUFACTURING THE SAME	(47) 12.07.2023
(73) LG Display Co., Ltd.	(87) GB2019052203
(72) KIM, SeJune	13.02.2020
LEE, Joonsuk	(22) 06.08.2019
(31) 20150151375	(54) NON-VOLATILE MEMORY CELL
(32) 29.10.2015	(73) IP2IPO Innovations Limited
(33) Korea (Republic)	(72) ZOU, Bin
(51) H10K 77/10	ZEMEN, Jan
H10K 50/844	MIHAL, Andrei
G02F 1/1333	(31) 201812823
H10K 102/00	(32) 07.08.2018
(11) EP3698418	(33) United Kingdom
(21) EP17910499.7	<hr/>
(47) 12.07.2023	(51) H10N 60/10
(87) CN2017107001	H10N 60/01
25.04.2019	H10N 69/00
(22) 20.10.2017	G06N 10/00
(54) FLEXIBLE DISPLAY PANEL AND	B82Y 10/00
FLEXIBLE DISPLAY APPARATUS	B82Y 40/00
(73) BOE Technology Group Co., Ltd.	(11) EP3912192
(72) XIE, Chunyan	(21) EP20702717.8
WANG, Dawei	(47) 12.07.2023
(51) H10N 10/01	(87) US2020012285
H10N 10/17	23.07.2020
H10N 10/81	(22) 04.01.2020
(11) EP3985745	(54) FABRICATION OF A DEVICE
(21) EP21198286.3	(73) Microsoft Technology Licensing, LLC
(47) 12.07.2023	(72) KALLAHER, Raymond Leonard
(22) 22.09.2021	GRONIN, Sergei Vyatcheslavovich
(54) METHOD FOR MANUFACTURING	GARDNER, Geoffrey Charles
A THERMOELECTRIC DEVICE BY	(31) 201916252237
ADDITIVE MANUFACTURING OF	(32) 18.01.2019
	(33) United States of America

## EP3

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

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

(51) A01G 7/04	DARRIEUTORT, Anthony	A61M 15/00
(11) EP3881671	(74) ir. W.J.J.M. Kempes	H05B 3/46
(21) EP19915217.4	(31) 1904586	H05B 3/42
(22) 08.05.2019	(32) 30.04.2019	(11) EP3756712
(54) LIGHT SOURCE FOR INDOOR PLANT CULTIVATION	(33) France	(21) EP20191123.7
(73) Fujian Sanan Sino-Science Photobiotech Co., Ltd.	(47) 05.04.2023	(22) 25.05.2017
(72) Li, Yang	(51) A01N 37/42	(54) AEROSOL GENERATING DEVICE WITH INTEGRAL HEATER ASSEMBLY
CHEN, Yiqun	A01N 25/02	(73) Philip Morris Products S.A.
WANG, Tingting	A01P 17/00	(72) MANCA, Laurent
LIU, Guojie	(11) EP3437472	BATISTA, Rui Nuno
YANG, Yukai	(21) EP17766534.6	(74) dr. W.A.H.M. Van Borm
MA, Jian	(22) 09.03.2017	(31) 16172173
LI, Shaohua	(54) THE USE OF AN AGENT FOR CONTROLLING THRIPS	(32) 31.05.2016
(74) dr. W.A.H.M. Van Borm	(73) Zeon Corporation	(33) European Patent Office (EPO)
(31) 201910117762	Riken	(47) 24.05.2023
(32) 15.02.2019	National Agriculture and Food Research Organization	(51) A47J 37/06
(33) China	Hiroshima Prefecture	A47J 27/04
(47) 05.04.2023	Kanagawa Prefecture	(11) EP3987990
(51) A01K 67/033	(72) UEKUSA, Hidetoshi	(21) EP21196041.4
(11) EP3726977	OYA, Takeshi	(22) 10.09.2021
(21) EP18842587.0	TSUDA, Shinya	(54) STEAM-TYPE AIR FRYER
(22) 21.12.2018	KAWADA, Yusuke	(73) Ningbo Careline Electric Appliance Co., Ltd.
(54) INSECT TRAY WITH COVER, RACK FOR SAID TRAY, USE OF AN ASSEMBLY OF SAID RACK WITH AT LEAST ONE TRAY	MITOMI, Masaaki	(72) ZHANG, Yichi
(73) Protix B.V.	KAMINISHI, Aiko	(74) dr. R.C. van Duijvenbode c.s.
(72) JANSEN, Jaco	SAKURAI, Tamito	(31) 202120893925 U
LEVER, Willemijn	MIYOHASHI, Fumika	202120892092 U
LEUSHUIS, Raymond Joseph	MATSUURA, Shohei	202120892074 U
(74) dr. R.C. van Duijvenbode c.s.	ABE, Hiroshi	202120315121 U
(31) 2020155	KOSHIIYAMA, Masami	202022398485 U
(32) 22.12.2017	TOMITAKA, Yasuhiro	(32) 28.04.2021
(33) Netherlands	(74) ir. A. Blokland c.s.	28.04.2021
(47) 07.06.2023	(31) 2016050279	28.04.2021
(51) A01M 7/00	(32) 14.03.2016	04.02.2021
(11) EP3711482	(33) Japan	26.10.2020
(21) EP20401019.3	(47) 10.05.2023	(33) China
(22) 11.03.2020	(51) A23L 5/48	China
(54) METHOD FOR APPLYING MATERIAL TO AN AGRICULTURAL AREA	(11) EP3868214	China
(73) Amazonen-Werke H. Dreyer SE & Co. KG	(21) EP21162137.0	China
(72) Klemann, Timo	(22) 19.03.2009	China
(74) ir. W.J.J.M. Kempes	(54) STABLE NATURAL BLUE COLORANT	(47) 29.03.2023
(31) 102019106924	(73) Wild Flavors, Inc.	(51) A47L 9/04
(32) 19.03.2019	(72) Horn, Gregory	(11) EP3777628
(33) Germany	Wu, Shaowen	(21) EP20190989.2
(47) 07.06.2023	Ford, Chad	(22) 13.08.2020
(51) A01M 7/00	(74) J.M.H. Duyver lic.	(54) CLEANER HEAD AND VACUUM CLEANER HAVING THE SAME
(11) EP3934420	(31) 399223	(73) Samsung Electronics Co., Ltd.
(21) EP20725884.9	4020808 P	(72) KIM, Taegwang
(22) 12.03.2020	(32) 06.03.2009	KWON, Kihwan
(54) MODULAR SPRAYER SYSTEM	28.03.2008	HONG, Seokman
(73) Exel Industries	(33) United States of America	HA, Dongwoo
(72) FERRIERE, Michel	United States of America	(74) dr. R.C. van Duijvenbode c.s.
	(47) 24.05.2023	(31) 20200093771
	(51) A24F 40/42	20190099621
	A24F 40/46	(32) 28.07.2020
	A24F 40/40	14.08.2019
	A61M 11/04	(33) Korea (Republic)
	A61M 15/00	



Korea (Republic)	(72) VANSLYKE, Stephen, J.	(33) United States of America
(47) 24.05.2023	RACK-GOMER, Anna, Leigh	(47) 10.05.2023
(51) A47L 23/24	GARCIA, Arturo	(51) A61F 2/07
(11) EP3809942	BOHM, Sebastian	A61F 2/86
(21) EP19749251.5	PEYSER, Thomas, A.	(11) EP3569192
(22) 19.07.2019	BOHNETT, Lucas	(21) EP19175861.4
(54) RETAINING DEVICE FOR A FLOOR MAT	SIMPSON, Peter, C.	(22) 14.01.2016
(73) Ille Papier-Service GmbH	ESTES, Michael, J.	(54) IMPLANTABLE MEDICAL DEVICE WITH REDUCED MIGRATION CAPABILITIES
(72) GOTTSCHALK, Eric	KAMATH, Apurv, Ullas	(73) Boston Scientific Scimed, Inc.
(74) ir. J.C. Volmer c.s.	MAHALINGAM, Aarthi	(72) Mort, Paul G.
(31) 102018117549	(74) ir. W.J.J.M. Kempes	Mannion, Paul
(32) 19.07.2018	(31) 201261612129 P	(74) ir. A.R. Aalbers
(33) Germany	(32) 16.03.2012	(31) 201562104356 P
(47) 29.03.2023	(33) United States of America	(32) 16.01.2015
(51) A61B 5/024	(47) 26.04.2023	(33) United States of America
A61B 5/021	(51) A61B 10/02	(47) 12.04.2023
A61B 5/022	A61B 17/32	(51) A61F 2/08
A61B 5/00	A61B 17/3205	(11) EP3897455
A61B 5/0205	A61B 17/29	(21) EP19827709.7
G16H 50/50	A61B 17/16	(22) 19.12.2019
(11) EP2992820	A61B 17/24	(54) MEDICAL FASTENING DEVICE FOR THE FASTENING OF GRAFTS
(21) EP15155771.7	A61B 17/30	(73) Abanza Tecnomed, S.L.
(22) 19.02.2015	A61B 90/00	(72) ABASCAL AZANZA, Juan
(54) Measuring blood pressure	A61B 17/00	ABASCAL RUBIO, José Manuel
(73) Tata Consultancy Services Limited	A61B 17/34	(74) ir. A.R. Aalbers
(72) Banerjee, Rohan	(11) EP3518783	(31) 18382946
Dutta Choudhury, Anirban	(21) EP17874476.9	(32) 19.12.2018
Sinha, Aniruddha	(22) 21.11.2017	(33) European Patent Office (EPO)
(74) ir. W.J.J.M. Kempes	(54) APPARATUS FOR TISSUE REDUCTION	(47) 26.04.2023
(31) 2593MU2014	(73) Corit Medical, LLC	(51) A61K 9/107
(32) 11.08.2014	(72) WHITCRAFT, Jonathan	A61K 47/34
(33) India	HUCK, Charles M.	A61P 27/02
(47) 10.05.2023	LOPER, Cameron	A61P 29/00
(51) A61B 5/1486	MAZURICK, Ryan	(11) EP2887923
A61B 5/1495	SAIDI, Iyad	(21) EP13831463.8
G16H 20/17	(74) dr. R.C. van Duijvenbode c.s.	(22) 23.08.2013
G16H 40/40	(31) 201662435943 P	(54) OPHTHALMIC FORMULATION OF POLYOXYL LIPID OR POLYOXYL FATTY ACID AND TREATMENT OF OCULAR CONDITIONS
(11) EP2203741	201662426053 P	(73) Sun Pharmaceutical Industries Limited
(21) EP08843163.0	(32) 19.12.2016	(72) WEISS, Sidney L.
(22) 24.10.2008	23.11.2016	MITRA, Ashim K.
(54) SYSTEMS AND METHODS FOR PROCESSING SENSOR DATA	(33) United States of America	MCNALLY, Eugene J.
(73) Dexcom, Inc.	United States of America	(74) dr. A. Krebs
(72) RUPPERT, Deborah, M.	(47) 24.05.2023	(31) 201261693189 P
Li, Ying	(51) A61B 17/66	(32) 24.08.2012
KAMATH, Apurv	(11) EP3923838	(33) United States of America
DOBBLES, J., Michael	(21) EP20707357.8	(47) 05.04.2023
YANG, Richard, C.	(22) 11.02.2020	(51) A61K 9/16
MENSINGER, Michael, Robert	(54) SYSTEM FOR MODIFYING A HUMAN OR ANIMAL BONE	A61K 31/351
SHARIATI, Mohammad, Ali	(73) Zyfoma GmbH	A61K 31/505
MAHALINGHAM, Aarthi	(72) SCHLEE, Markus	A23K 10/00
(74) ir. W.J.J.M. Kempes	(74) dr. A. Krebs	A23K 50/75
(31) 14398 P	(31) 102019201825	A23K 50/30
982647 P	(32) 12.02.2019	A61K 31/47
(32) 17.12.2007	(33) Germany	A61K 31/53
25.10.2007	(47) 05.04.2023	A23K 50/10
(33) United States of America	(51) A61B 18/04	(11) EP3258920
United States of America	(11) EP3689280	(21) EP16706563.0
(47) 10.05.2023	(21) EP20166521.3	(22) 17.02.2016
(51) A61B 5/1495	(22) 06.11.2009	(54) SOLID PHARMACEUTICAL DOSAGE FORM SUITABLE FOR USE AS DRINKING WATER MEDICATION
(11) EP2825096	(54) SYSTEMS FOR TREATMENT OF PROSTATIC TISSUE	(73) Orotech NV
(21) EP13711808.9	(73) Boston Scientific Scimed, Inc.	Universiteit Gent
(22) 12.03.2013	(72) SHADDUCK, John H.	
(54) SYSTEMS AND METHODS FOR PROCESSING ANALYTE SENSOR DATA	HOEY, Michael	
(73) Dexcom, Inc.	(74) ir. H.J.G. Lips c.s.	
	(31) 112097 P	
	(32) 06.11.2008	

(72) REMON, Jean-Paul VERVAET, Chris VERMEULEN, Brenda	(21) EP19821395.1 (22) 25.11.2019 (54) ANTIBODY COMPRISING A GLUTAMINE-CONTAINING LIGHT CHAIN C-TERMINAL EXTENSION, CONJUGATES THEREOF, AND METHODS AND USES	A61M 60/414 (11) EP3384940 (21) EP17187359.9 (22) 22.08.2017 (54) EXTERNAL DRIVE UNIT FOR AN IMPLANTABLE HEART ASSIST PUMP
(74) ir. W.J.J.M. Kempes (31) 15155358 (32) 17.02.2015 (33) European Patent Office (EPO) (47) 29.03.2023	(73) Bristol-Myers Squibb Company (72) YAMAZOE, Sayumi RAO-NAIK, Chetana STROP, Pavel HOLDER, Patrick G. SHEPPARD, Paul O. DENG, Xiaodi	(73) ECP Entwicklungsgesellschaft mbH (72) Sieß, Thorsten Schumacher, Jörg Daschewski, Maxim Spanier, Gerd Wang, Jim-Po (74) ir. H.Th. van den Heuvel c.s. (31) 201715482513 (32) 07.04.2017 (33) United States of America (47) 12.04.2023
(51) A61K 9/46 A61K 9/00 A61K 9/20 A61K 9/28 (11) EP3836906 (21) EP19759058.1 (22) 13.08.2019 (54) EXPANDABLE DRUG DELIVERY PILL (73) Alma Therapeutics Ltd. (72) CABIRI, Oz GROSS, Yossi BEN-SHITRIT, Lital	(74) ir. H.A. Witmans c.s. (31) 201862773708 P (32) 30.11.2018 (33) United States of America (47) 29.03.2023 (51) A61M 16/04 A61M 16/06 A61M 25/02 (11) EP3827862 (21) EP21151394.0 (22) 13.10.2017 (54) ENDOTRACHEAL TUBE HOLDING DEVICE	(51) A61N 1/04 A61N 1/36 A61N 1/372 (11) EP3244965 (21) EP16737139.2 (22) 11.01.2016 (54) TREATMENT OF HEADACHES BY ELECTRICAL STIMULATION (73) Theranica Bio-Electronics Ltd. (72) YABLONKA, Tomer VOLOKH, Lana GOLDFISHER, Shmuel HARPAK, Amnon IRONI, Alon OVADIA, Ilan JASHEK, Ronen RAAB, Hamutal TAIEB, Avner
(74) ir. H.A. Witmans c.s. (31) 201816103420 (32) 14.08.2018 (33) United States of America (47) 29.03.2023 (51) A61K 31/5377 A61K 31/4412 A61K 31/444 A61P 35/00 (11) EP3157527 (21) EP15809540.6 (22) 17.06.2015 (54) EZH2 INHIBITORS FOR TREATING LYMPHOMA (73) Epizyme, Inc. Eisai R&D Management Co., Ltd. (72) OTTESEN, Lone REYDERMAN, Larisa JOHNSTON, L. Danielle KEILHACK, Heike KNUTSON, Sarah K.	(73) Hollister Incorporated (72) CHUNG, Tze, Wan JOCKEL, Mark, W. MERRYMAN, Rebecca, E. CZAPLEWSKI, Gregory, J. LEADINGHAM, Brian, T. VISCANTI, Peter L. DANG, Thai, H. AUGUSTYN, Christina TETZLAFF, Patrick, C. SCALISE, Anthony (74) ir. W.J.J.M. Kempes (31) 201762480889 P 201662407722 P (32) 03.04.2017 13.10.2016 (33) United States of America United States of America (47) 07.06.2023 (51) A61M 25/00 A61M 25/01 A61M 27/00 (11) EP3194000 (21) EP15781474.0 (22) 16.09.2015 (54) CURVED URINARY CATHETER (73) Hollister Incorporated (72) FOLEY, Adam, J. RICHARD, Marine, Veronique, Germaine MCMENAMIN, Martin	(74) ir. W.J.J.M. Kempes (31) 201562102606 P (32) 13.01.2015 (33) United States of America (47) 05.04.2023 (51) A62B 1/06 B65D 81/20 (11) EP3922316 (21) EP20178919.5 (22) 09.06.2020 (54) RESCUE DEVICE (73) Skylootec GmbH (72) Rinklake, Kai (74) dr. A. Krebs (47) 10.05.2023 (51) B01D 21/30 B01D 21/00 B01D 21/24 B01D 21/34 C02F 1/00 (11) EP3610936 (21) EP18000674.4 (22) 14.08.2018 (54) SETTLING TANK AND METHOD FOR GUIDING PARTIAL FLOWS IN THE INLET AREA OF SETTLING TANKS (73) hydrograv GmbH (72) ARMBRUSTER, Martin (74) ir. H.J.G. Lips c.s. (47) 24.05.2023 (51) B01D 69/02 B01D 71/80 (11) EP3284529
(74) dr. A. Krebs (31) 201462036265 P 201462013522 P (32) 12.08.2014 17.06.2014 (33) United States of America United States of America (47) 24.05.2023 (51) A61K 38/48 A61P 3/10 (11) EP3897697 (21) EP19835292.4 (22) 20.12.2019 (54) PEPTIDES FOR TREATMENT AND PREVENTION OF DIABETES AND ASSOCIATED DISORDERS (73) Université de Strasbourg Institut National de la Santé et de la Recherche Médicale (INSERM) (72) MARION, Vincent (74) J.M.H. Duyver lic. (31) 18306794 (32) 21.12.2018 (33) European Patent Office (EPO) (47) 29.03.2023 (51) A61K 47/68 (11) EP3886914	(74) ir. W.J.J.M. Kempes (31) 201462051666 P (32) 17.09.2014 (33) United States of America (47) 14.06.2023 (51) A61M 60/13 A61M 60/237 A61M 60/871 A61M 60/88 A61M 60/825 A61M 60/829	

(21) EP17184750.2	(32) 25.02.2013	B29C 48/06
(22) 03.08.2017	(33) European Patent Office (EPO)	B02C 18/18
(54) PERFLUOROPOLYMERS AND MEMBRANES COMPRISING PERFLUOROPOLYMERS	(47) 05.04.2023	(11) EP3689571
(73) Pall Corporation	(51) B08B 9/093	(21) EP19154288.5
(72) AIT-HADDOU, Hassan	B05B 1/14	(22) 29.01.2019
ONYEMAUWA, Frank Okezie	B05B 3/04	(54) STRAND GRANULATOR, AND METHOD FOR ADJUSTING THE CUTTING GAP OF SUCH A GRANULATOR
(74) ir. H.J.G. Lips c.s.	B05B 13/06	(73) Coperion GmbH
(31) 201615237192	B05B 15/656	(72) Wygas, Stefan
(32) 15.08.2016	(11) EP3053662	Matuschek, Martin
(33) United States of America	(21) EP16000194.7	(74) ir. J.C. Volmer c.s.
(47) 24.05.2023	(22) 27.01.2016	(47) 05.04.2023
(51) B01F 21/00	(54) JET DEVICE AND METHOD FOR INTERNAL CLEANING OF A TANK OR CONTAINER	(51) B29C 43/02
B01F 23/00	(73) Burkhard, Jürgen	B29C 43/58
B01F 25/00	(72) Burkhard, Jürgen	B29C 43/34
C12M 1/00	(74) mr. R. Zwamborn	B29K 105/08
C12N 5/00	(31) 102015001534	B29C 43/36
(11) EP3645699	(32) 06.02.2015	B29C 70/46
(21) EP18747045.5	(33) Germany	B29C 43/54
(22) 25.06.2018	(47) 29.03.2023	B29C 43/52
(54) AUTOMATED METHOD AND APPARATUS FOR PREPARING BIOPROCESS SOLUTIONS	(51) B23K 26/042	B29K 105/12
(73) FUJIFILM Irvine Scientific, Inc.	B23K 26/08	(11) EP3778174
(72) FLETCHER, Thomas Reid	B23K 26/70	(21) EP19775856.8
MAURO, Wayne	H01S 3/101	(22) 27.03.2019
NEESE, David	(11) EP3750663	(54) METHOD FOR MANUFACTURING MOLDED ARTICLE
(74) ir. H.A. Witmans c.s.	(21) EP20178491.5	(73) Toray Industries, Inc.
(31) 201762527878 P	(22) 05.06.2020	(72) SHINOHARA, Kotaro
(32) 30.06.2017	(54) LASER OSCILLATOR SUPPORT TABLE AND ADJUSTMENT METHOD OF LASER OSCILLATOR SUPPORT TABLE	TAKEBE, Yoshiki
(33) United States of America	(73) Disco Corporation	HONMA, Masato
(47) 12.04.2023	(72) Uryu, Hiroki	(74) J.M.H. Duyver lic.
(51) B01F 23/231	Miura, Seiji	(31) 2018067926
B01F 23/233	(74) dr. ir. F.M. van Bouwelen	(32) 30.03.2018
B01F 27/117	(31) 2019106263	(33) Japan
B01F 27/85	(32) 06.06.2019	(47) 07.06.2023
C02F 3/12	(33) Japan	(51) B29C 55/06
C02F 3/20	(47) 07.06.2023	B29D 7/00
(11) EP3938322	(51) B23K 26/08	(11) EP3328615
(21) EP20712891.9	B23K 9/00	(21) EP16758311.1
(22) 16.03.2020	B23K 9/02	(22) 01.08.2016
(54) WASTE WATER CLEANING DEVICE AND METHOD FOR CLEANING WASTE WATER	B23K 9/04	(54) PROCESS FOR THE PRODUCTION OF A PURE LAYERED STRETCH FILM USING SINGLE PASS EXTRUSION RESINS
(73) INVENT Umwelt- und Verfahrenstechnik AG	B23K 9/32	(73) Paragon Films Inc.
(72) HUIJBOOM, Marcel	B23K 26/00	(72) BAAB, Michael, John
HUBER, Peter	B23K 26/342	(74) ir. W.J.J.M. Kempes
HÖFKEN, Marcus	(11) EP3689529	(31) 201562199152 P
(74) dr. R.C. van Duijvenbode c.s.	(21) EP20150005.5	(32) 30.07.2015
(31) 102019111489	(22) 02.01.2020	(33) United States of America
(32) 03.05.2019	(54) SYSTEM FOR AND METHOD OF ADDITIVE MANUFACTURING WITH PROVIDING DYNAMIC BEAD SPACING AND WEAVE FILL	(47) 05.04.2023
(33) Germany	(73) Lincoln Global, Inc.	(51) B41J 2/14
(47) 26.04.2023	(72) PETERS, Andrew R.	(11) EP3858621
(51) B08B 3/04	PAUL, Jonathan H.	(21) EP21150875.9
B08B 9/055	MITCHELL, Levi J.	(22) 11.01.2021
F16L 55/46	(74) ir. W.J.J.M. Kempes	(54) LIQUID DISCHARGE HEAD, LIQUID DISCHARGE APPARATUS, AND METHOD FOR MANUFACTURING LIQUID DISCHARGE HEAD
(11) EP2958684	(31) 201916239602	(73) Ricoh Company, Ltd.
(21) EP14706551.0	(32) 04.01.2019	(72) TSUKAMOTO, Ryuji
(22) 23.02.2014	(33) United States of America	(74) ir. H.A. Witmans c.s.
(54) HYGIENIC AND ASEPTIC PIG CLEANING STATION	(47) 07.06.2023	(31) 2020155546
(73) Uresh AG	(51) B29B 9/06	2020011867
(72) HOFER, Urs	B29C 48/00	(32) 16.09.2020
HUBER, Andres	B29C 48/05	28.01.2020
(74) ir. W.J.J.M. Kempes	B01J 2/22	
(31) 13156658	B02C 18/14	
	B02C 18/22	

(33) Japan Japan (47) 29.03.2023	(33) Italy (47) 12.04.2023	(11) EP3988477 (21) EP21172167.5 (22) 16.06.2015 (54) ROBOT FOR TRANSPORTING STORAGE BINS (73) AUTOSTORE TECHNOLOGY AS (72) HOGNALAND, Ingvar BEKKEN, Børge AUSTRHEIM, Trond FJELDHEIM, Ivar (74) dr. A. Krebs (31) 20140773 (32) 19.06.2014 (33) Norway (47) 10.05.2023
(51) B41J 11/00 (11) EP3766701 (21) EP19382609.6 (22) 18.07.2019 (54) HEAD, MACHINE, AND METHOD FOR DIGITAL PRINTING ON SUBSTRATES (73) Barberan Latorre, Jesús Francisco (72) Barberan Latorre, Jesús Francisco (74) dr. R.C. van Duijvenbode c.s. (47) 29.03.2023	(51) B63G 13/00 B63B 7/08 (11) EP3826915 (21) EP19769784.0 (22) 16.09.2019 (54) BOARDING POLE PROTECTION (73) Frodé Marina AB (72) FRODÉ, Mikael (74) ir. J.C. Volmer c.s. (31) 1851110 (32) 19.09.2018 (33) Sweden (47) 07.06.2023	(51) B65G 43/08 B65G 47/14 A22C 11/00 A22C 17/00 A22C 11/02 (11) EP3770084 (21) EP19188647.2 (22) 26.07.2019 (54) SAUSAGE CASING STORAGE WITH LEVEL MONITORING (73) Albert Handtmann Maschinenfabrik GmbH & Co. KG (72) Schliesser, Gerhard Baechtle, Manfred Schmid, Klaus Strohm, Kurt Merk, Jochen Betz, Andreas (74) dr. R.C. van Duijvenbode c.s. (47) 24.05.2023
(51) B41J 25/00 B41J 25/304 B41J 25/34 (11) EP3733420 (21) EP19172345.1 (22) 02.05.2019 (54) PRINthead MODULE AND TEST PRINT SYSTEM (73) Artech GmbH design + production in plastic (72) BANK, Gerald FRANKE, Andreas (74) ir. W.J.J.M. Kempes (47) 29.03.2023	(51) B63H 25/04 B63H 25/02 (11) EP3865395 (21) EP19870217.7 (22) 20.08.2019 (54) AUTOMATIC DOCKING DEVICE (73) Yanmar Power Technology Co., Ltd. (72) DAKE, Yuichiro UEDA Yasuhiro YOKOUE Toshiyuki FUKUKAWA Tomoya HARA Naohiro (74) ir. W.J.J.M. Kempes (31) 2018192126 (32) 10.10.2018 (33) Japan (47) 31.05.2023	(51) B65G 47/50 B65G 47/34 B65G 47/04 (11) EP2767493 (21) EP13155552.6 (22) 16.02.2013 (54) Method and device for manipulating objects (73) KNAPP Systemintegration GmbH (72) Höfler, Wolfgang (74) ir. A.R. Aalbers (47) 29.03.2023
(51) B60S 3/04 B08B 1/04 B08B 3/04 F16F 15/32 G01M 1/32 (11) EP3981653 (21) EP20201153.2 (22) 09.10.2020 (54) RIM CLEANING UNIT AND CORRESPONDING OPERATING METHOD (73) Hofmann Maschinen- und Anlagenbau GmbH (72) Nolandt, Andreas Bork, Bernhard Aumann, Stephan (74) dr. A. Krebs (47) 05.04.2023	(51) B64D 15/12 (11) EP3844065 (21) EP19765896.6 (22) 27.08.2019 (54) DE-ICING SYSTEMS (73) De-Ice Technologies, Inc. (72) KROPP, Sean, David TOUBIANA, Ruben BRATIANU-BADEA, Alexandru BUENROSTRO, Christopher (74) ir. W.J.J.M. Kempes (31) 201862723270 P (32) 27.08.2018 (33) United States of America (47) 10.05.2023	(51) B65D 85/804 A47J 31/06 (11) EP3924271 (21) EP20705179.8 (22) 13.02.2020 (54) SYSTEM FOR PREPARING A BEVERAGE FROM A SINGLE-SERVE CAPSULE (73) GCS German Capsule Solution GmbH (72) KRÜGER, Marc EMPL, Günter (74) ir. W.J.J.M. Kempes (31) 102019207557 102019201904 (32) 23.05.2019 13.02.2019 (33) Germany Germany (47) 05.04.2023
(51) B63B 17/00 B63H 21/32 F01N 13/00 F01N 1/00 F01N 3/04 F01N 3/20 F01N 13/08 F01N 13/18 B63B 35/00 B63H 21/30 (11) EP3932795 (21) EP21181747.3 (22) 25.06.2021 (54) SHIP COMPRISING A SYSTEM FOR REDUCING THE VIBRATIONS ORIGINATING FROM THE CASING AND METHOD FOR BUILDING SAID SHIP (73) Fincantieri S.p.A. (72) PUGNETTI, Roberta (74) ir. W.J.J.M. Kempes (31) 202000016102 (32) 03.07.2020	(51) B65G 1/04	(51) C02F 1/70 C02F 1/62 C02F 1/66 C02F 1/28 C02F 101/22 C02F 103/06 C02F 103/16 C02F 103/24 (11) EP3795542 (21) EP20180207.1 (22) 16.06.2020 (54) REMOVAL OF CHROMIUM COMPOUNDS FROM CR(VI)-CONTAINING AQUEOUS PHASES (73) LANXESS Deutschland GmbH (72) BOLL, Matthias (74) ir. W.J.J.M. Kempes (47) 12.04.2023 (51) C05C 9/00 (11) EP3856705 (21) EP19782898.1

- (22) 17.09.2019  
(54) GRANULES BASED ON UREA AND CALCINED POLYHALITE  
(73) K+S Aktiengesellschaft  
(72) DIETRICH, Armin  
DRESSEL, Stefan  
BAUCKE, Guido  
SCHERR, David  
THENERT, Stefan  
(74) J.M.H. Duyver lic.  
(31) 102018007539  
(32) 25.09.2018  
(33) Germany  
(47) 29.03.2023  
(51) C07C 37/70  
C07C 7/00  
C07C 7/12  
C07C 37/50  
C07C 7/04  
B01J 19/00  
C10G 21/16  
C07C 37/74  
C07C 6/12  
C07C 7/14  
C07C 15/08  
C07C 39/07  
C07C 39/04  
(11) EP3713906  
(21) EP17822084.4  
(22) 21.11.2017  
(54) PROCESS FOR MAKING XYLENES AND PHENOL FROM COAL DERIVED LIQUIDS  
(73) UOP LLC  
China Petroleum & Chemical Corporation  
(72) ZHOU, Lubo  
ZHANG, Shuguang  
(74) dr. R.C. van Duijvenbode c.s.  
(47) 05.04.2023  
(51) C07D 307/50  
(11) EP3746427  
(21) EP19702892.1  
(22) 31.01.2019  
(54) A PROCESS FOR THE CONVERSION OF A SOLID LIGNOCELLULOSIC MATERIAL  
(73) Furanix Technologies B.V  
(72) MCKAY, Benjamin  
GRUTER, Gerardus Johannes Maria  
VAN DER WAAL, Jan Cornelis  
VAN PUTTEN, Robert-Jan  
(74) ir. J.C. Volmer c.s.  
(31) 2020355  
(32) 31.01.2018  
(33) Netherlands  
(47) 07.06.2023  
(51) C07D 405/14  
C07D 417/12  
C07D 417/10  
C07D 417/14  
A61K 31/541  
C07D 405/12  
C07D 409/12  
C07D 213/64  
(11) EP3555076  
(21) EP17880872.1  
(22) 14.12.2017  
(54) NOVEL PHENYL PROPIONIC ACID DERIVATIVES AND USES THEREOF  
(73) Il Dong Pharmaceutical Co., Ltd.  
(72) AN, Kyung-Mi  
KANG, Jae-Hoon  
CUI, Shuo-Lin  
HONG, Chang-Hee  
KWAK, Hyun-Jung  
SONG, Hyo-Jung  
LEE, Hong-Sub  
(74) dr. R.C. van Duijvenbode c.s.  
(31) 20170171228  
20160171541  
(32) 13.12.2017  
15.12.2016  
(33) Korea (Republic)  
Korea (Republic)  
(47) 05.04.2023  
(51) C07D 471/04  
A61K 31/437  
A61P 11/00  
(11) EP3746441  
(21) EP19706097.3  
(22) 01.02.2019  
(54) PHARMACEUTICAL COMPOUND, SALTS THEREOF, FORMULATIONS THEREOF, AND METHODS OF MAKING AND USING SAME  
(73) GENENTECH, INC.  
(72) NAGAPUDI, Karthik  
FISHER, Lawrence Emerson  
LIU, Yuan  
SASTRY, Srikonda  
RADHAKRISHNAN, Ramachandran  
PILSL, Ludwig  
FRIESER, Markus  
BLATTER, Fritz  
CZAUDERNA, Christine  
TANDALE, Rajendra, S.  
LEUNG, Manshiu  
MULLER, Roland  
WANG, Shuai  
ZHANG, Wei  
(74) dr. A. Ellens c.s.  
(31) PCT/CN2018/075023  
(32) 02.02.2018  
(33) World Intellectual Property Office (WIPO)  
(47) 05.04.2023  
(51) C07D 471/04  
A61K 31/4375  
(11) EP3927703  
(21) EP20707019.4  
(22) 18.02.2020  
(54) ANTIBACTERIALS BASED ON MONOCYCLIC FRAGMENTS COUPLED TO AMINOPIPERIDINE NAPHTHYRIDINE SCAFFOLD  
(73) Kemijski Institut  
Univerza V Ljubljani  
(72) MINOVSKI, Nikola  
HRAST, Martina  
KOLARIC, Anja  
ANDERLUH, Marko  
(74) dr. R.C. van Duijvenbode c.s.  
(31) 101131  
(32) 19.02.2019  
(33) Luxembourg  
(47) 05.04.2023  
(51) C07D 487/04  
C07D 519/00  
A61K 31/4985  
A61P 19/08  
A61P 29/00  
A61P 31/00  
A61P 35/00  
A61P 37/00  
(11) EP3495368  
(21) EP18203086.6  
(22) 11.07.2012  
(54) (S)-4-(8-AMINO-3-(1-(BUT-2-YNOYL)PYRROLIDIN-2-YL)IMIDAZO[1,5-A]PYRAZIN-1-YL)-2-METHOXY-N-(PYRIDIN-2-YL)BENZAMIDE AS BTK-INHIBITOR  
(73) Merck Sharp & Dohme B.V.  
(72) de MAN, Adrianus Petrus Antonius  
OUBRIE, Arthur A.  
STERRENBURG, Jan-Gerard  
WIJKMANS, Jacobus C.H.M.  
JANS, Christiaan Gerardus Johannes Maria  
REWINKEL, Johannes Bernardus Maria  
BARF, Tjeerd A.  
RAAIJMAKERS, Hans C.A.  
(74) dr. R.C. van Duijvenbode c.s.  
(31) 201161509397 P  
11174578  
(32) 19.07.2011  
19.07.2011  
(33) United States of America  
European Patent Office (EPO)  
(47) 31.05.2023  
(51) C07F 7/28  
C08F 4/64  
B01J 31/22  
(11) EP3647314  
(21) EP19206650.4  
(22) 29.06.2015  
(54) CATALYST SYSTEMS FOR OLEFIN POLYMERIZATION  
(73) Dow Global Technologies LLC  
(72) IVERSON, Carl N.  
BROWN, Susan G.  
SZUROMI, Endre  
KLOSIN, Jerzy  
FIGUEROA, Ruth  
FONTAINE, Philip P.  
YOUNG, Andrew J.  
RICKAWAY, Zach T.  
(74) ir. W.J.J.M. Kempes  
(31) 201462018841 P  
(32) 30.06.2014  
(33) United States of America  
(47) 24.05.2023  
(51) C07F 9/50  
B32B 15/00  
C07F 9/655  
C07F 9/6553  
C08K 5/00  
C08L 77/00  
H01L 51/00  
H01L 51/50  
H01L 51/05  
H01L 51/42  
(11) EP3810619  
(21) EP19731306.7

(22) 21.06.2019	(33) United States of America	(11) EP4013820
(54) TETRA-NUCLEAR NEUTRAL COPPER (I) COMPLEXES	(47) 10.05.2023	(21) EP20734137.1
(73) Clariant International Ltd	(51) C08G 18/32	(22) 17.06.2020
(72) BISSESSAR, Damien	C08G 18/38	(54) UPGRADED RECYCLED POLYOLEFIN
STEFFANUT, Pascal	C08G 18/48	(73) Borealis AG
BELLEMIN LAPONNAZ, Stephane	C08G 18/50	(72) LIU, Yi
(74) J.M.H. Duyver lic.	C08G 18/66	ALBRECHT, Andreas
(31) 18178819	C08G 18/67	HUBNER, Gerhard
(32) 20.06.2018	C08G 18/75	KAHLEN, Susanne Margarete
(33) European Patent Office (EPO)	C08J 5/18	BRAUN, Hermann
(47) 26.04.2023	(11) EP3604373	(74) drs. O. Griebing
(51) C07J 63/00	(21) EP19189849.3	(31) 19191459
A61K 31/56	(22) 02.08.2019	(32) 13.08.2019
A61P 35/00	(54) STRETCHABLE FILM AND METHOD FOR FORMING THE SAME	(33) European Patent Office (EPO)
A61P 37/04	(73) Shin-Etsu Chemical Co., Ltd.	(47) 05.04.2023
C12N 5/0783	(72) Hasegawa, Koji	(51) C08L 67/02
(11) EP3539974	Hatakeyama, Jun	C08L 67/04
(21) EP17870242.9	Iwabuchi, Motoaki	(11) EP3560996
(22) 08.11.2017	Nonaka, Shiori	(21) EP19171423.7
(54) METHOD FOR MODIFYING T CELL POPULATION	Ikeda, Joe	(22) 26.04.2019
(73) Osaka University	(74) J.M.H. Duyver lic.	(54) COMPOSITION COMPRISING A RIGID (CO)POLYESTER AND A FLEXIBLE (CO)POLYESTER, METHOD FOR PREPARING SAME AND USE THEREOF IN GEOTEXTILE AND FOR FISHING MACHINERY
KNC Laboratories Co., Ltd.	(31) 2018146265	(73) ICCI SEA
(72) FUJIKI, Fumihiko	(32) 02.08.2018	(72) MATHEL, Vincent
NEYA, Masahiro	(33) Japan	CHAUVEL, Marie
KOHNO, Shinya	(47) 10.05.2023	(74) ir. W.J.J.M. Kempes
SUGIYAMA, Haruo	(51) C08G 63/18	(31) 1800455
(74) dr. ir. G.J.C. Verdijck c.s.	C08G 63/672	(32) 27.04.2018
(31) 2016219099	C08G 63/80	(33) France
(32) 09.11.2016	C08G 63/685	(47) 05.04.2023
(33) Japan	C08G 69/40	(51) C09C 1/00
(47) 29.03.2023	(11) EP3467002	C01B 21/076
(51) C07K 14/18	(21) EP16903891.6	(11) EP4015582
C12N 15/861	(22) 30.05.2016	(21) EP20215788.9
A61K 39/29	(54) METHOD FOR OBTAINING BIODEGRADABLE POLYMERS	(22) 18.12.2020
(11) EP2570423	(73) Sociedad Anónima Minera Catalano- Aragonesa	(54) ZIRCONIUM NITRIDE POWDER AND METHOD FOR PRODUCING SAME
(21) EP12190520.2	(72) ALFONSO ALEGRE, María José	(73) Mitsubishi Materials Electronic Chemicals Co., Ltd.
(22) 13.06.2006	ZAGALAZ LASIERRA, Patricia	(72) KAGEYAMA, Kensuke
(54) Hepatitis C virus nucleic acid vaccine	CABALLERO LÓPEZ, Miguel Ángel	AIBA, Naoyuki
(73) MSD Italia S.r.l.	(74) dr. A. Krebs	KONISHI, Takashi
(72) Nicosia, Alfredo	(47) 10.05.2023	(74) ir. H.J.G. Lips c.s.
Lahm, Armin	(51) C08K 3/32	(47) 24.05.2023
Colloca, Stefano	C08K 5/00	(51) C09D 11/52
Folgori, Antonella	C09K 21/02	C08K 3/08
(31) 699514 P	C09K 21/04	(11) EP3760681
691523 P	C09K 21/10	(21) EP20183006.4
(32) 15.07.2005	C09K 21/12	(22) 29.06.2020
17.06.2005	C08K 5/5313	(54) CONDUCTIVE WIRING MATERIAL COMPOSITION, CONDUCTIVE WIRING SUBSTRATE AND METHOD FOR PRODUCING CONDUCTIVE WIRING SUBSTRATE
(33) United States of America	(11) EP2788416	(73) Shin-Etsu Chemical Co., Ltd.
United States of America	(21) EP12798157.9	(72) HASEGAWA, Koji
(47) 03.05.2023	(22) 28.11.2012	WATANABE, Osamu
(51) C08F 8/06	(54) FLAME RETARDANT BLENDS CONTAINING FLAME RETARDANT AND ALUMINIUM PHOSPHITE, PROCESS FOR THEIR PREPARATION AND THEIR USE	HATAKEYAMA, Jun
C08F 110/10	(73) Clariant International Ltd	(74) J.M.H. Duyver lic.
(11) EP3592786	(72) SICKEN, Martin	(31) 2019122671
(21) EP18712383.1	BAUER, Harald	(32) 01.07.2019
(22) 07.03.2018	HÖROLD, Sebastian	(33) Japan
(54) HYDROBORATION/OXIDATION OF ALLYL-TERMINATED POLYISOBUTYLENE	(74) J.M.H. Duyver lic.	(47) 10.05.2023
(73) Cardiac Pacemakers, Inc.	(31) 102011120200	(51) C09K 5/04
(72) DELANEY, Joseph T. Jr.	(32) 05.12.2011	
GURUNG, Niraj	(33) Germany	
RO, Andrew J.	(47) 19.04.2023	
WILLOUGHBY, Patrick	(51) C08L 23/12	
(74) ir. H.J.G. Lips c.s.		
(31) 201762468316 P		
(32) 07.03.2017		

(11) EP3704203	A61K 31/573	(51) C12N 15/81
(21) EP18812106.5	A61K 31/58	C12N 9/02
(22) 26.11.2018	A61Q 19/00	C12N 9/12
(54) LOW GWP REFRIGERANT BLENDS	(11) EP3052604	C12N 9/90
(73) RPL Holdings Limited	(21) EP14847605.4	(11) EP3690052
(72) POWELL, Richard	(22) 30.09.2014	(21) EP19154364.4
POOLE, John Edward	(54) USE OF ALKYLGLYCOSIDES	(22) 29.01.2019
(74) dr. W.A.H.M. Van Borm	SURFACTANTS	(54) CHIMERIC PROMOTER FOR USE IN
(31) 201816781	(73) Enza Biotech AB	METABOLIC ENGINEERING
201815477	(72) ULVENLUND, Stefan	(73) Clariant Produkte (Deutschland) GmbH
201810959	(74) ir. W.J.J.M. Kempes	(72) CLAREN, Jörg
201805792	(31) 1351143	FARWICK, Alexander
201800521	(32) 30.09.2013	DIETZ, Heiko
201719692	(33) Sweden	MERTEL, Magdalena
(32) 15.10.2018	(47) 31.05.2023	(74) J.M.H. Duyver lic.
24.09.2018	(51) C12C 3/08	(47) 19.04.2023
04.07.2018	C12C 3/12	(51) C21D 1/74
06.04.2018	C12H 1/16	B62D 29/00
12.01.2018	(11) EP3411467	C21D 1/76
27.11.2017	(21) EP17702409.8	C21D 3/04
(33) United Kingdom	(22) 03.02.2017	C21D 8/02
United Kingdom	(54) LIGHT-STABLE HOP EXTRACT	C21D 8/04
United Kingdom	(73) Heineken Supply Chain B.V.	C23C 2/02
United Kingdom	(72) DEKONINCK, Tinne	C23C 2/12
United Kingdom	VANBENEDEN, Nele	C21D 1/34
United Kingdom	SCHOUTEN, Maria Elizabeth Wilhelmina	C21D 1/52
(47) 29.03.2023	VAN VEEN, Marcel	C21D 1/673
(51) C09K 23/22	BROUWER, Eric Richard	B32B 15/01
C09K 23/42	(74) dr. R.C. van Duijvenbode c.s.	C22C 38/00
(11) EP3935142	(31) 16154513	C22C 38/02
(21) EP20712454.6	(32) 05.02.2016	C22C 38/06
(22) 05.03.2020	(33) European Patent Office (EPO)	C22C 38/28
(54) EMULSIFIER AND EMULSIONS	(47) 07.06.2023	C22C 38/32
(73) Sulnox Group Plc	(51) C12N 5/00	C23C 2/26
(72) REDMAN, James	(11) EP3622052	C23C 2/28
(74) dr. W.A.H.M. Van Borm	(21) EP18715504.9	C23C 2/40
(31) 201903169	(22) 15.03.2018	C22C 38/04
(32) 08.03.2019	(54) NEURONALLY INDUCTIVE	(11) EP3783116
(33) United Kingdom	CULTIVATION MATRIX	(21) EP20156836.7
(47) 05.04.2023	(73) Fraunhofer-Gesellschaft zur Förderung	(22) 06.09.2013
(51) C10G 3/00	der angewandten Forschung e.V.	(54) PRE-COATED SHEETS ALLOWING
C10L 1/08	(72) BAUM, Christoph	THE PRODUCTION OF PRESS-
B01J 8/04	GUTERMUTH, Angela	HARDENED AND COATED STEEL
(11) EP2699652	(74) dr. R.C. van Duijvenbode c.s.	PARTS
(21) EP12722398.0	(31) 102017207698	(73) ArcelorMittal
(22) 18.04.2012	(32) 08.05.2017	(72) DRILLET, Pascal
(54) CATALYTIC PROCESS FOR	(33) Germany	PUERTA VELASQUEZ, Juan David
PRODUCING HYDROCARBONS FROM	(47) 05.04.2023	STAUDTE, Jonas
BIOOILS	(51) C12N 15/67	(74) dr. R.C. van Duijvenbode c.s.
(73) UPM-Kymmene Corporation	C12N 15/85	(31) PCT/FR2012/000350
(72) LINDBERG, Teemu	A61K 31/7105	(32) 06.09.2012
NOUSIAINEN, Jaakko	A61K 31/711	(33) World Intellectual Property Office (WIPO)
LAUMOLA, Heli	A61K 39/00	(47) 26.04.2023
RISSANEN, Arto	(11) EP4023755	(51) C23C 14/58
GUTIERREZ, Andrea	(21) EP21209125.0	C23C 16/56
KNUUTTILA, Pekka	(22) 11.12.2015	C23C 4/18
(74) ir. A.R. Aalbers	(54) ARTIFICIAL NUCLEIC ACID	C25D 5/48
(31) 201161476521 P	MOLECULES FOR IMPROVED	C23C 24/04
(32) 18.04.2011	PROTEIN EXPRESSION	(11) EP3956494
(33) United States of America	(73) CureVac SE	(21) EP20721779.5
(47) 05.04.2023	(72) Grund, Stefanie	(22) 20.04.2020
(51) C11D 3/22	Schlake, Thomas	(54) PROMOTING ADHESION OF THIN
A61K 8/60	Theß, Andreas	FILMS
C11D 1/66	(74) dr. R.C. van Duijvenbode c.s.	(73) Sy&Se SA
A61K 31/7028	(31) PCT/EP2014/003334	(72) FARINE, Sophie
A61K 8/33	(32) 12.12.2014	TELMONT, Florian
A61K 38/28	(33) World Intellectual Property Office (WIPO)	KEPPNER, Herbert
A61K 8/73	(47) 26.04.2023	BRUN, Sébastien

AELLEN, Thierry	Japan	(47) 07.06.2023
(74) J. Hoekstra	Japan	(51) F16K 1/02
(31) 5342019	Japan	A61M 16/20
(32) 18.04.2019	Japan	F16K 27/02
(33) Switzerland	Japan	F16K 35/10
(47) 22.03.2023	Japan	A61M 16/00
(51) C25B 3/25	(47) 07.06.2023	A61M 16/01
B01J 35/00	(51) E04F 10/06	A61M 16/06
C25B 11/04	(11) EP4043661	(11) EP3990809
(11) EP3827114	(21) EP22155888.5	(21) EP20742652.9
(21) EP19748754.9	(22) 09.02.2022	(22) 25.06.2020
(22) 15.07.2019	(54) SHADING DEVICE WITH DRAINAGE CHANNEL	(54) AN ADJUSTABLE VALVE
(54) CATALYSTS FOR ELECTROCHEMICAL CO2 REDUCTION AND ASSOCIATED METHODS	(73) STOBAG AG	(73) Intersurgical AG
(73) TotalEnergies OneTech	(72) HAUETER, Remo	(72) BOOTH, Christopher Ederly
The Governing Council of the University of Toronto	(74) ir. J.C. Volmer c.s.	PAYNE, Simon Robert
(72) SARGENT, Edward	(31) 102021103137	BOTTOM, David Simon
IP, Alexander	(32) 10.02.2021	BOWSER, Richard Francis
ZHONG, Miao	(33) Germany	(74) dr. A. Krebs
WANG, Chuanhao	(47) 24.05.2023	(31) 201909121
MIN, Yimeng	(51) E06B 9/13	(32) 25.06.2019
(74) ir. W.J.J.M. Kempes	E06B 9/17	(33) United Kingdom
(31) 201862701980 P	E06B 9/62	(47) 10.05.2023
(32) 23.07.2018	(11) EP3805513	(51) F16L 55/163
(33) United States of America	(21) EP20206990.2	F16L 55/179
(47) 07.06.2023	(22) 13.03.2018	(11) EP3814665
(51) C25B 9/19	(54) ROLLER DOOR	(21) EP19733954.2
C25B 9/23	(73) Seuster KG	(22) 04.06.2019
C25B 11/02	(72) Fischer, Jörg	(54) SEALING DEVICE AND ASSOCIATED INNER SLEEVE
C25B 11/03	(74) J.M.H. Duyver lic.	(73) Wenk, Christoph
C25B 13/02	(31) 102017005190	(72) Wenk, Christoph
C25B 13/08	(32) 31.05.2017	(74) ir. J.C. Volmer c.s.
C25B 15/00	(33) Germany	(31) 102018115678
C25D 1/04	(47) 26.04.2023	(32) 28.06.2018
C25D 1/08	(51) F02G 1/045	(33) Germany
(11) EP3604618	F02G 1/05	(47) 29.03.2023
(21) EP18771300.3	F02G 1/06	(51) F17C 5/02
(22) 22.03.2018	(11) EP2959144	(11) EP3674594
(54) LAMINATE AND WOUND BODY	(21) EP14754834.1	(21) EP19219870.3
(73) ASAHI KASEI KABUSHIKI KAISHA	(22) 17.02.2014	(22) 27.12.2019
(72) HACHIYA, Toshinori	(54) DEVICE AND METHOD FOR OPERATIONAL AND SAFETY CONTROL OF A HEAT ENGINE	(54) STORAGE TANK WITH PRESSURE ACTUATED FILL TERMINATION ASSEMBLY
KOIKE, Jun	(73) Heaten AS	(73) Chart Inc.
FUNAKAWA, Akiyasu	(72) RISLÄ, Harald Nes	(72) NEESER, Ian
KADO, Yoshifumi	(74) ir. A. Blokland c.s.	PATELCZYK, Jeff
(74) J.M.H. Duyver lic.	(31) 20130277	DRUBE, Paul
(31) 2018053146	(32) 19.02.2013	(74) ir. H.A. Witmans c.s.
2018053139	(33) Norway	(31) 201862785922 P
2018053145	(47) 29.03.2023	(32) 28.12.2018
2018053231	(51) F16B 31/02	(33) United States of America
2018053144	F16B 37/14	(47) 05.04.2023
2018053217	F16B 39/26	(51) F21V 21/35
2018053149	(11) EP3715648	F21V 23/06
2017056524	(21) EP20160301.6	F21V 23/00
2017056525	(22) 02.03.2020	F21S 8/00
(32) 20.03.2018	(54) CLAMPING SYSTEM AND METHOD FOR PRESTRESSING A FASTENING ELEMENT	H01R 25/14
20.03.2018	(73) fischerwerke GmbH & Co. KG	H01R 13/24
20.03.2018	(72) Linka, Martin	(11) EP3819537
20.03.2018	Freudigmann, Lars	(21) EP20205792.3
20.03.2018	Wälder, Jonas	(22) 04.11.2020
22.03.2017	Lehmann, David	(54) ELECTRIFIED TRACK LIGHTING SYSTEM
22.03.2017	(74) ir. H.J.G. Lips c.s.	(73) Erresei S.r.l. Unipersonale
(33) Japan	(31) 102019107607	(72) BELINGHERI, Nicola
Japan	(32) 25.03.2019	MAGRI, Ezio Stefano
Japan	(33) Germany	(74) ir. W.J.J.M. Kempes
		(31) 201900020586



- (32) 08.11.2019  
(33) Italy  
(47) 29.03.2023
- 
- (51) G01B 11/24  
G01B 11/245  
G01B 11/25  
A24C 5/34  
(11) EP3377850  
(21) EP16825556.0  
(22) 17.11.2016  
(54) INSPECTION GROUP OF AN  
ELONGATED ELEMENT  
(73) G.D S.p.A.  
(72) SPIRITO, Gilberto  
MORELLI, Sergio  
CASAGRANDE, Alberto  
FEDERICI, Luca  
(74) dr. R.C. van Duijvenbode c.s.  
(31) UB20155673  
(32) 18.11.2015  
(33) Italy  
(47) 19.04.2023
- 
- (51) G01D 7/00  
G01D 21/00  
H04B 1/3816  
G06K 19/07  
(11) EP3977058  
(21) EP20723035.0  
(22) 22.04.2020  
(54) ELECTRONIC DEVICE AND FIELD  
DEVICE  
(73) Endress + Hauser Flowtec AG  
(72) TANNER, Lukas  
FIEDLER, Marc  
(74) ir. W.J.J.M. Kempes  
(31) 102019114323  
(32) 28.05.2019  
(33) Germany  
(47) 03.05.2023
- 
- (51) G01J 3/02  
(11) EP3642578  
(21) EP18737369.1  
(22) 21.06.2018  
(54) NOISE SUPPRESSION IN  
SPECTROMETERS  
(73) Keit Limited  
(72) SOBOL, James Paul  
DENNY, David James Edmonds  
TIDMARSH, Jolyon Richard  
POWELL, James David  
(74) dr. R.C. van Duijvenbode c.s.  
(31) 201710100  
(32) 23.06.2017  
(33) United Kingdom  
(47) 05.04.2023
- 
- (51) G01M 1/30  
G01B 11/30  
G06T 7/586  
G01M 17/02  
G01B 11/24  
G01B 11/26  
G06T 7/73  
G01M 17/013  
(11) EP3926318  
(21) EP20180754.2  
(22) 18.06.2020
- (54) METHOD AND DEVICE FOR  
ADJUSTING A TYRE ON A RIM TO A  
PRECISE ANGLE  
(73) Hofmann Maschinen- und Anlagenbau  
GmbH  
(72) Nolandt, Andreas  
Knorps, Sarah  
Aumann, Stephan  
(74) dr. A. Krebs  
(47) 29.03.2023
- 
- (51) G01N 1/12  
G01N 33/20  
(11) EP3581914  
(21) EP18177317.7  
(22) 12.06.2018  
(54) MOLTEN METAL SAMPLERS  
FOR HIGH AND LOW OXYGEN  
APPLICATIONS  
(73) Heraeus Elektro-Nite International N.V.  
(72) DOETS, Jan  
(74) ir. W.J.J.M. Kempes  
(47) 07.06.2023
- 
- (51) G01N 29/04  
G01N 29/24  
G01N 29/34  
G01N 29/42  
G01B 11/30  
G01B 17/08  
G01N 29/46  
G01N 33/10  
(11) EP3685150  
(21) EP18858520.2  
(22) 19.09.2018  
(54) QUANTITATIVE TEXTURE  
MEASUREMENT APPARATUS AND  
METHOD  
(73) Frito-Lay North America, Inc.  
(72) BOURG, Wilfred, Marcellien, Jr.  
BAI, Ou  
FAGAN, Scott  
SHAO, Chen, C.  
MIRZA, Shahmeer, Ali  
RICHARDSON, Scotty, G.  
MICHEL-SANCHEZ, Enrique  
(74) ir. W.J.J.M. Kempes  
(31) 201715711592  
(32) 21.09.2017  
(33) United States of America  
(47) 31.05.2023
- 
- (51) G01N 30/24  
G01N 30/88  
G01N 33/28  
G01N 30/46  
G01N 30/54  
(11) EP3365670  
(21) EP16858425.8  
(22) 24.10.2016  
(54) METHOD AND SYSTEM FOR  
CONTEMPORANEOUS ANALYSIS  
OF A CRUDE OIL FRONT END  
AND A CRUDE OIL BOILING POINT  
DISTRIBUTION VIA A SINGLE GAS  
CHROMATOGRAPH  
(73) Separation Systems Inc.  
(72) LUBKOWITZ, Joaquin A.  
MENEGHINI, Roberto I.  
CECCARELLI, Claudio M.  
(74) ir. W.J.J.M. Kempes
- (31) 201615331397  
201562245127 P  
(32) 21.10.2016  
22.10.2015  
(33) United States of America  
United States of America  
(47) 26.04.2023
- 
- (51) G01N 33/543  
C12Q 1/68  
G01N 33/68  
(11) EP3794350  
(21) EP19729970.4  
(22) 17.05.2019  
(54) LIPID-FREE ANCHORING OF  
THERMOPHILIC BACTERIOPHAGE  
G20C PORTAL ADAPTER INTO SOLID-  
STATE NANOPORES  
(73) University of York  
Northeastern University  
(72) CRESSIOT, Benjamin  
GREIVE, Sandra  
ANTSON, Alfred, A.  
WANUNU, Meni  
(74) ir. W.J.J.M. Kempes  
(31) 201862673118 P  
(32) 17.05.2018  
(33) United States of America  
(47) 03.05.2023
- 
- (51) G02B 15/20  
G02B 27/01  
H04N 5/74  
G02B 3/14  
(11) EP3149528  
(21) EP15799774.3  
(22) 29.05.2015  
(54) METHODS AND SYSTEM FOR  
CREATING FOCAL PLANES IN  
VIRTUAL AND AUGMENTED REALITY  
(73) Magic Leap, Inc.  
(72) TEKOLSTE, Robert D.  
CHUNG, Hyunsun  
WELCH, William Hudson  
CHENG, Hui-Chuan  
(31) 201462005834 P  
(32) 30.05.2014  
(33) United States of America  
(47) 07.06.2023
- 
- (51) G02B 27/01  
G01S 5/00  
G01S 5/16  
G01S 17/00  
G01S 17/87  
G06T 19/00  
G06T 7/33  
(11) EP3759542  
(21) EP19760022.4  
(22) 20.02.2019  
(54) HEAD SCAN ALIGNMENT USING  
OCULAR REGISTRATION  
(73) Magic Leap, Inc.  
(72) WEDIG, Geoffrey  
(74) dr. R.C. van Duijvenbode c.s.  
(31) 201862636695 P  
(32) 28.02.2018  
(33) United States of America  
(47) 29.03.2023
- 
- (51) G02F 1/13  
G02F 1/1347

G02F 1/1337	BIRGEL, Eric	(54) CONTROLLING A RATE OF
G02F 1/1333	(74) ir. W.J.J.M. Kempes	PREFETCHING BASED ON BUS
G02B 5/18	(31) 102018116892	BANDWIDTH
G02B 5/30	(32) 12.07.2018	(73) International Business Machines
G02B 27/01	(33) Germany	Corporation
(11) EP3542214	(47) 03.05.2023	(72) SHUM, Chung-Lung
(21) EP17871119.8	(51) G06F 1/16	JACOBI, Christian
(22) 13.11.2017	H04M 1/02	GSCHWIND, Michael, Karl
(54) LIQUID CRYSTAL DIFFRACTIVE	G09F 9/30	BRADBURY, Jonathan
DEVICES WITH NANO-SCALE	(11) EP3716003	(74) J.M.H. Duyver lic.
PATTERN AND METHODS OF	(21) EP20165438.1	(31) 201715812570
MANUFACTURING THE SAME	(22) 25.03.2020	201715701508
(73) Magic Leap, Inc.	(54) DISPLAY DEVICE	(32) 14.11.2017
(72) OH, Chulwoo	(73) Samsung Display Co., Ltd.	12.09.2017
XU, Frank	(72) Ahn, Sungsang	(33) United States of America
SINGH, Vikramjit	(74) dr. R.C. van Duijvenbode c.s.	United States of America
MELLI, Mauro	(31) 20190037270	(47) 31.05.2023
PEROZ, Christophe	(32) 29.03.2019	(51) G06F 16/22
KLUG, Michael, Anthony	(33) Korea (Republic)	(11) EP3495970
(31) 201715795067	(47) 10.05.2023	(21) EP17844936.9
201662424341 P	(51) G06F 8/656	(22) 25.05.2017
(32) 26.10.2017	G06F 9/455	(54) KEY-VALUE STORAGE METHOD,
18.11.2016	(11) EP3850479	APPARATUS AND SYSTEM
(33) United States of America	(21) EP19736944.0	(73) Huawei Technologies Co., Ltd.
United States of America	(22) 25.06.2019	(72) YUAN, Huiqin
(47) 14.06.2023	(54) VIRTUAL MACHINE UPDATE WHILE	GAO, Feng
(51) G02F 1/1333	KEEPING DEVICES ATTACHED TO	(74) ir. W.J.J.M. Kempes
G02F 1/1335	THE VIRTUAL MACHINE	(31) 201610794448
(11) EP3825758	(73) Microsoft Technology Licensing, LLC	(32) 31.08.2016
(21) EP20217478.5	(72) BROAS, Kevin Michael	(33) China
(22) 27.06.2017	HOPPERT, Hadden Mark	(47) 05.04.2023
(54) DISPLAY DEVICE	LIU, Wen Jia	(51) G06F 21/55
(73) LG Electronics, Inc.	HEPKIN, David Alan	H04L 9/40
(72) CHOI, Yohan	(74) J.M.H. Duyver lic.	(11) EP3895046
KO, Junho	(31) 201816132151	(21) EP19817692.7
SHIN, Dongsoo	(32) 14.09.2018	(22) 10.12.2019
(74) J.M.H. Duyver lic.	(33) United States of America	(54) SYSTEMS AND METHODS FOR
(31) 20160084037	(47) 07.06.2023	BEHAVIORAL THREAT DETECTION
(32) 04.07.2016	(51) G06F 9/4401	(73) Bitdefender IPR Management Ltd.
(33) Korea (Republic)	G06F 21/57	(72) ZAMFIR, Sorina N.
(47) 10.05.2023	G06F 13/10	NICULAE, Stefan
(51) G03B 21/00	(11) EP3663913	BOSINCEANU, Elena A.
G03B 21/14	(21) EP19207613.1	DICHIU, Daniel
H04N 5/74	(22) 07.11.2019	APOSTOAE, Andrei A.
(11) EP3562148	(54) TECHNIQUES FOR PROCESSOR	DINCU, Andreea
(21) EP17888109.0	BOOT-UP	(74) ir. W.J.J.M. Kempes
(22) 11.09.2017	(73) INTEL Corporation	(31) 201816215179
(54) PROJECTION SYSTEM, PROJECTION	(72) NARAYANAN, Srihari	(32) 10.12.2018
DEVICE, AND CRADLE	KUMAR, Mohan J.	(33) United States of America
(73) Sony Group Corporation	UPASANI, Neeraj	(47) 05.04.2023
(72) TANAKA, Shigeru	POWIERTOWSKI, Wojciech	(51) G06F 21/55
KAWATA, Minako	GUILLORY, Jeanne	H04L 9/40
ISHII, Kazuya	GHETIE, Sergiu	(11) EP3895047
(74) ir. W.J.J.M. Kempes	DALVI, Sagar	(21) EP19817693.5
(31) 2016250602	(74) ir. W.J.J.M. Kempes	(22) 10.12.2019
(32) 26.12.2016	(31) 201816213962	(54) SYSTEMS AND METHODS FOR
(33) Japan	(32) 07.12.2018	BEHAVIORAL THREAT DETECTION
(47) 31.05.2023	(33) United States of America	(73) Bitdefender IPR Management Ltd.
(51) G05B 19/042	(47) 17.05.2023	(72) APOSTOAE, Andrei A.
(11) EP3821306	(51) G06F 12/0811	DINCU, Andreea
(21) EP19731227.5	G06F 12/0862	ZAMFIR, Sorina N.
(22) 13.06.2019	G06F 13/16	DICHIU, Daniel
(54) METHOD FOR PARAMETRISING A	G06F 12/084	NICULAE, Stefan
SENSOR SYSTEM	G06F 11/30	BOSINCEANU, Elena A.
(73) Endress+Hauser Process Solutions AG	(11) EP3682333	(74) ir. W.J.J.M. Kempes
(72) SCHMIDT, Ralf	(21) EP18855663.3	(31) 201816215214
BUCHNER, Reinhard	(22) 03.09.2018	(32) 10.12.2018
KILIAN, Markus		(33) United States of America

(47) 05.04.2023	25.11.2016	(74) dr. ir. F.M. van Bouwelen
(51) G06Q 50/14	(33) China	(31) 20090092364
G06Q 50/10	China	(32) 29.09.2009
G06Q 50/30	China	(33) Korea (Republic)
G01C 21/34	(47) 12.04.2023	(47) 07.06.2023
G01C 21/36	(51) H01L 23/00	(51) H01Q 21/26
G06Q 10/06	H03F 1/56	H01Q 9/42
(11) EP3607525	H01L 23/66	H01Q 1/32
(21) EP18781778.8	H03F 3/195	H01Q 9/38
(22) 16.02.2018	H03F 3/213	H01Q 21/20
(54) COORDINATING TRAVEL ON A PUBLIC TRANSIT SYSTEM AND A TRAVEL COORDINATION SYSTEM	(11) EP4007165	H01Q 21/30
(73) Uber Technologies, Inc.	(21) EP21211037.3	H01Q 5/40
(72) ILAND, Daniel	(22) 29.11.2021	(11) EP3753074
IRISH, Andrew	(54) RF AMPLIFIER PACKAGE	(21) EP19710146.2
RAJAGOPAL, Srinivasan	(73) Ampleon Netherlands B.V.	(22) 11.02.2019
(74) ir. H.A. Witmans c.s.	(72) van der Zanden, Josephus Henricus Bartholomeus	(54) COMBINED ANTENNA FOR SATELLITE AND TERRESTRIAL RADIO COMMUNICATIONS
(31) 201715478245	Maassen, Daniel	(73) Hi-te S.r.l.
201715477230	(74) dr. ir. G.J.C. Verdijck c.s.	(72) GHEZZO, Enrico
(32) 04.04.2017	(31) 2027009	GIOVANNELLI, Antonello
03.04.2017	(32) 30.11.2020	(74) ir. W.J.J.M. Kempes
(33) United States of America	(33) Netherlands	(31) 201800002581
United States of America	(47) 14.06.2023	(32) 12.02.2018
(47) 05.04.2023	(51) H01L 31/02	(33) Italy
(51) G06V 10/82	H01L 31/0224	(47) 29.03.2023
G06V 30/19	H01L 31/078	(51) H01R 13/24
G06V 30/414	H02S 10/00	H04M 1/02
(11) EP3480728	H02S 50/15	G03B 17/04
(21) EP18163519.4	(11) EP3355361	(11) EP4016752
(22) 23.03.2018	(21) EP16897470.7	(21) EP20894296.1
(54) METHOD AND SYSTEM FOR EXTRACTING INFORMATION FROM HAND-MARKED INDUSTRIAL INSPECTION SHEETS	(22) 01.12.2016	(22) 03.11.2020
(73) Tata Consultancy Services Limited	(54) SOLAR CELL HAVING HIGH PHOTOELECTRIC CONVERSION EFFICIENCY AND METHOD FOR PRODUCING SOLAR CELL HAVING HIGH PHOTOELECTRIC CONVERSION EFFICIENCY	(54) ELASTIC PIECE ASSEMBLY AND ELECTRONIC DEVICE HAVING ELASTIC PIECE ASSEMBLY
(72) VIG, Lovekesh	(73) Shin-Etsu Chemical Co., Ltd.	(73) Honor Device Co., Ltd.
SHARMA, Monika	(72) MATSUO, Yoko	(72) HUANG, Qiang
JINDAL, Swati	OHTSUKA, Hiroyuki	LIU, Chao
GUPTA, Gaurav	WATABE, Takenori	YAO, Wenxing
(74) dr. ir. G.J.C. Verdijck c.s.	HASHIGAMI, Hiroshi	YUAN, Leibo
(31) 201721039681	(74) J.M.H. Duyver lic.	FAN, Xuanrui
(32) 07.11.2017	(47) 31.05.2023	TAN, Zhengping
(33) India	(51) H01M 10/0525	(74) ir. W.J.J.M. Kempes
(47) 29.03.2023	H01M 50/403	(31) 201911164728
(51) H01H 51/01	H01M 50/414	(32) 25.11.2019
H01H 50/14	H01M 50/417	(33) China
H01H 50/04	H01M 50/42	(47) 14.06.2023
H01H 50/16	H01M 50/426	(51) H02J 3/46
H01H 50/36	H01M 50/429	H02J 3/38
H01F 7/126	H01M 50/434	H02J 3/24
(11) EP3965135	H01M 50/437	F03D 7/02
(21) EP21193270.2	H01M 50/443	(11) EP3408914
(22) 24.11.2017	H01M 50/446	(21) EP17701869.4
(54) MAGNETIC LATCHING RELAY CAPABLE OF ACCURATELY POSITIONING MAGNETIC CIRCUIT	H01M 50/451	(22) 27.01.2017
(73) Xiamen Hongfa Electric Power Controls Co., Ltd.	H01M 50/46	(54) METHOD FOR FEEDING ELECTRICAL POWER INTO AN ELECTRICAL SUPPLY NETWORK
(72) DAI, Wenguang	H01M 50/491	(73) Wobben Properties GmbH
LIAO, Guojin	(11) EP3435442	(72) BROMBACH, Johannes
ZHONG, Shuming	(21) EP18189927.9	(74) dr. R.C. van Duijvenbode c.s.
(74) dr. R.C. van Duijvenbode c.s.	(22) 11.08.2010	(31) 102016101469
(31) 201611189010	(54) METHOD FOR PRODUCING A SEPARATOR	(32) 27.01.2016
201611051896	(73) Toray Industries, Inc.	(33) Germany
201611051945	LG Energy Solution, Ltd.	(47) 31.05.2023
(32) 21.12.2016	(72) Kim, Jong-Hun	(51) H02K 7/00
25.11.2016	Hong, Jang-Hyuk	B60H 1/00
	Lee, Joo-Sung	B60K 25/08
		(11) EP4071981

(21) EP21167032.8	(51) H04B 10/291	(21) EP21728756.4
(22) 06.04.2021	(11) EP3884597	(22) 07.05.2021
(54) POWER MANAGEMENT SYSTEM FOR A TRANSPORT REFRIGERATION UNIT	(21) EP21705695.1	(54) EVPN SIGNALING, NG-VPLS E-TREE SIGNALING, VPWS SIGNALING, AND L3VPN SIGNALING USING SEGMENT ROUTING OR MPLS
(73) Carrier Fire & Security EMEA BV	(22) 12.01.2021	(73) Ciena Corporation
(72) BEAUFRERE, Florian	(54) SYSTEM-LEVEL OPTICAL AMPLIFIER EFFICIENCY PERFORMANCE METRIC	(72) SIVABALAN, Muthurajah
ZARRABI, Jamal	(73) Ciena Corporation	HE, Peng
DUCHER, Gael	(72) FLANNERY, Damian	MEHTA, Pranav
(74) J.M.H. Duyver lic.	BOERTJES, David W.	BOUTROS, Sami
(47) 31.05.2023	JONES, Kevan	SHAH, Himanshu
(51) H02S 20/00	(74) J.M.H. Duyver lic.	(74) J.M.H. Duyver lic.
(11) EP2884545	(31) 202016746117	(31) 202017126270
(21) EP12875799.4	(32) 17.01.2020	202017076881
(22) 22.10.2012	(33) United States of America	202017075186
(54) FOLDED PHOTOVOLTAIC ASSEMBLY MOUNTING STRUCTURE AND MOUNTING METHOD THEREFOR	(47) 31.05.2023	202017007084
(73) Changzhou Trina Solar Energy Co., Ltd.	(51) H04L 5/00	202016870113
(72) FU, Chuanguo	H04W 24/08	(32) 18.12.2020
SHU, Yunhua	H04W 72/04	22.10.2020
JIANG, Ahua	H04W 8/22	20.10.2020
(74) dr. R.C. van Duijvenbode c.s.	(11) EP3797490	31.08.2020
(31) 201210369274	(21) EP20703506.4	08.05.2020
201210134804	(22) 13.02.2020	(33) United States of America
(32) 28.09.2012	(54) APPARATUS AND METHOD FOR FLEXIBLE CONTROL CHANNEL MONITORING	United States of America
03.05.2012	(73) HUAWEI TECHNOLOGIES CO., LTD.	United States of America
(33) China	(72) MA, Ruixiang	United States of America
China	LINDOFF, Bengt	United States of America
(47) 29.03.2023	GAO, Fei	(47) 31.05.2023
(51) H04B 7/04	SCHIER, Thorsten	(51) H04L 61/2521
H04W 16/28	(74) dr. W.A.H.M. Van Borm	H04L 41/0663
H04W 24/10	(31) PCT/EP2019/071848	H04L 41/0806
(11) EP3306843	(32) 14.08.2019	H04L 41/342
(21) EP16799698.2	(33) World Intellectual Property Office (WIPO)	H04L 41/40
(22) 12.04.2016	(47) 07.06.2023	H04L 41/0813
(54) WIRELESS COMMUNICATION DEVICE AND METHOD	(51) H04L 41/022	(11) EP3692685
(73) Sony Group Corporation	H04L 41/082	(21) EP17797724.6
(72) MIZUSAWA, Nishiki	H04L 41/0895	(22) 06.10.2017
(74) ir. W.J.J.M. Kempes	H04L 41/0897	(54) REMOTELY CONTROLLING NETWORK SLICES IN A NETWORK
(31) 2015105519	H04L 41/40	(73) Telefonaktiebolaget LM Ericsson (publ)
(32) 25.05.2015	H04L 41/08	(72) BEIJAR, Nicklas
(33) Japan	H04L 41/084	RANJBAR, Alireza
(47) 05.04.2023	H04L 41/0853	(74) ir. A. Blokland c.s.
(51) H04B 7/06	(11) EP3913861	(47) 19.04.2023
H04B 7/08	(21) EP21185738.8	(51) H04N 5/232
(11) EP3566332	(22) 05.12.2018	H04N 5/225
(21) EP18700097.1	(54) AUTOMATED NETWORK CHANGE SYSTEM	H04N 5/073
(22) 05.01.2018	(73) Google LLC	(11) EP3591959
(54) BEAM SWEEP CONFIGURATION	(72) ECHEVARRIA, Alvaro Martinez	(21) EP17899145.1
(73) Sony Group Corporation	LIN, Alexander Jinhon	(22) 01.12.2017
(72) BENGTSSON, Erik	BALAN, Horia Vlad	(54) IMAGE SENSOR AND CONTROL SYSTEM
YING, Zhinong	ONG, Joon	(73) Sony Semiconductor Solutions Corporation
BOLIN, Thomas	VAHDAT, Amin	(72) MITSUBAYASHI, Hideki
ZANDER, Olof	BANNAI, Vinay Kumar	(74) ir. W.J.J.M. Kempes
PRIYANTO, Basuki	GRIBBLE, Steven	(31) 2017039010
LARSSON, Bo	KOMURAVELLI, Anvesh	(32) 02.03.2017
(74) ir. W.J.J.M. Kempes	FERGUSON, Andrew Debock	(33) Japan
(31) 17176443	ZHANG, Zengbin	(47) 07.06.2023
17154645	TARIQ, Muhammad Mukarram	(51) H04N 5/357
17150723	(74) ir. H.Th. van den Heuvel c.s.	G06T 5/00
(32) 16.06.2017	(31) 201762594990 P	G01N 21/64
03.02.2017	(32) 05.12.2017	G06V 10/20
09.01.2017	(33) United States of America	G06V 20/50
(33) European Patent Office (EPO)	(47) 19.04.2023	H04N 1/401
European Patent Office (EPO)	(51) H04L 45/00	H04N 1/409
European Patent Office (EPO)	H04L 45/52	
(47) 31.05.2023	(11) EP3932023	

- (11) EP3373238  
(21) EP18160337.4  
(22) 06.03.2018  
(54) OPTICAL DISTORTION CORRECTION FOR IMAGED SAMPLES  
(73) Illumina, Inc.  
(72) Belitz, Paul  
Langlois, Robert  
(74) ir. W.J.J.M. Kempes  
(31) 2018852  
201762468347 P  
(32) 05.05.2017  
07.03.2017  
(33) Netherlands  
United States of America  
(47) 05.04.2023  
(51) H04N 5/369  
H04N 5/3745  
H04N 5/378  
H01L 27/146  
(11) EP3580922  
(21) EP19715243.2  
(22) 13.03.2019  
(54) SOLID-STATE IMAGE PICKUP ELEMENT AND IMAGE PICKUP APPARATUS  
(73) Sony Semiconductor Solutions Corporation  
(72) NIWA, Atsumi  
(74) ir. W.J.J.M. Kempes  
(31) 2018088497  
(32) 02.05.2018  
(33) Japan  
(47) 07.06.2023  
(51) H04N 13/161  
G06T 15/20  
H04N 19/597  
G06T 9/00  
(11) EP3682632  
(21) EP18773707.7  
(22) 11.09.2018  
(54) METHODS AND DEVICES FOR ENCODING AND DECODING 3D VIDEO STREAM  
(73) InterDigital VC Holdings, Inc.  
(72) THUDOR, Franck  
BRIAND, Gerard  
DORE, Renaud  
CHUPEAU, Bertrand  
TAPIE, Thierry  
FLEUREAU, Julien  
(74) dr. R.C. van Duijvenbode c.s.  
(31) 18305949  
17306188  
(32) 13.07.2018  
15.09.2017  
(33) European Patent Office (EPO)  
European Patent Office (EPO)  
(47) 03.05.2023  
(51) H04N 19/103  
H04N 19/157  
H04N 19/172  
H04N 19/46  
H04N 19/51  
(11) EP2869577  
(21) EP13810810.5  
(22) 09.04.2013
- (54) DYNAMIC IMAGE PREDICTIVE DECODING DEVICE, METHOD, AND PROGRAM  
(73) NTT DOCOMO, INC.  
(72) TAKIUE, Junya  
TAN, Thiow Keng  
FUJIBAYASHI, Akira  
BOON, Choong Seng  
(74) dr. ir. F.M. van Bouwelen  
(31) 2012145832  
(32) 28.06.2012  
(33) Japan  
(47) 07.06.2023  
(51) H04N 19/126  
H04N 19/129  
H04N 19/176  
H04N 19/463  
H04N 19/162  
(11) EP3745723  
(21) EP20181270.8  
(22) 23.10.2012  
(54) IMAGE CODING APPARATUS, IMAGE CODING METHOD, IMAGE DECODING APPARATUS, IMAGE DECODING METHOD, AND STORAGE MEDIUM  
(73) CANON KABUSHIKI KAISHA  
(72) SHIMA, Masato  
(74) J.M.H. Duyver lic.  
(31) 2012093113  
2012057424  
2012008199  
2011243942  
(32) 16.04.2012  
14.03.2012  
18.01.2012  
07.11.2011  
(33) Japan  
Japan  
Japan  
Japan  
(47) 12.04.2023  
(51) H04N 19/50  
H04N 19/136  
H04N 19/176  
H04N 19/593  
H04N 19/117  
H04N 19/82  
H04N 19/86  
H04N 19/59  
(11) EP3654650  
(21) EP19218030.5  
(22) 17.06.2013  
(54) INTRA PREDICTION BASED ON INTERPOLATED REFERENCE SAMPLES  
(73) NTT DoCoMo, Inc.  
(72) TAN, Thiow Keng  
BOON, Choong Seng  
SUZUKI, Yoshinori  
(74) dr. ir. F.M. van Bouwelen  
(31) 2012209626  
(32) 24.09.2012  
(33) Japan  
(47) 31.05.2023  
(51) H04N 19/70  
H04N 19/85  
H04N 19/80  
(11) EP3437320
- (21) EP17709725.0  
(22) 14.03.2017  
(54) METHOD AND APPARATUS FOR CODING A VIDEO INTO A BITSTREAM CARRYING REGION-BASED POST PROCESSING PARAMETERS INTO AN SEI NESTING MESSAGE  
(73) InterDigital VC Holdings, Inc.  
(72) FRANCOIS, Edouard  
ANDRIVON, Pierre  
BORDES, Philippe  
(74) dr. R.C. van Duijvenbode c.s.  
(31) 16305383  
(32) 31.03.2016  
(33) European Patent Office (EPO)  
(47) 03.05.2023  
(51) H04Q 1/02  
(11) EP3785450  
(21) EP19724282.9  
(22) 09.04.2019  
(54) MODULAR NETWORK ELEMENT ARCHITECTURE  
(73) Ciena Corporation  
(72) MAYENBURG, Anthony, J.  
RIVAUD, Daniel  
SHEARMAN, Simon, J.E.  
DUNCAN, Ian  
TIERNEY, James  
(74) J.M.H. Duyver lic.  
(31) 201815959746  
201815959869  
201815959820  
(32) 23.04.2018  
23.04.2018  
23.04.2018  
(33) United States of America  
United States of America  
United States of America  
(47) 31.05.2023  
(51) H04W 36/00  
H04W 76/19  
H04W 36/02  
H04W 36/32  
H04W 92/20  
(11) EP3841785  
(21) EP18762644.5  
(22) 22.08.2018  
(54) UE CONTEXT FORWARDING  
(73) Telefonaktiebolaget LM Ericsson (publ)  
(72) JOHANSSON, Stefan  
FAXÉN, Linnea  
ENGSTRÖM, Stefan  
(74) dr. R.C. van Duijvenbode c.s.  
(47) 31.05.2023  
(51) H04W 36/30  
H04W 72/12  
H04B 7/06  
H04B 7/08  
H04W 76/19  
H04W 36/00  
H04L 5/00  
(11) EP3735036  
(21) EP20171299.9  
(22) 24.04.2020  
(54) BEAM FAILURE RECOVERY PROCEDURE IN CARRIER AGGREGATION  
(73) Beijing Xiaomi Mobile Software Co., Ltd.

(72) ZHOU, Hua	H04W 52/16	ZHU, Jun
YI, Yunjung	H04W 52/38	LIN, Yingpei
DINAN, Esmael	(11) EP2719230	(74) ir. W.J.J.M. Kempes
CIRIK, Ali	(21) EP12729290.2	(31) PCT/CN2014/092960
BABAEI, Alireza	(22) 12.06.2012	PCT/CN2014/072617
JEON, Hyoungsuk	(54) METHOD FOR CONTROLLING	(32) 03.12.2014
(74) J.M.H. Duyver lic.	TRANSMIT POWER OF A MOBILE	27.02.2014
(31) 201962842306 P	STATION	(33) World Intellectual Property Office (WIPO)
(32) 02.05.2019	(73) InterDigital Patent Holdings, Inc.	World Intellectual Property Office (WIPO)
(33) United States of America	(72) ZEIRA, Eldad, M.	(47) 05.04.2023
(47) 31.05.2023	(31) 201161527749 P	<hr/>
(51) H04W 48/08	201161496158 P	(51) H04W 72/23
H04W 72/04	(32) 26.08.2011	(11) EP3661282
H04L 5/00	13.06.2011	(21) EP17918944.4
(11) EP3769564	(33) United States of America	(22) 28.07.2017
(21) EP19713635.1	United States of America	(54) USER TERMINAL AND RADIO
(22) 12.03.2019	(47) 10.05.2023	COMMUNICATION METHOD
(54) QUASI CO-LOCATION ASSUMPTION	(51) H04W 72/04	(73) NTT DOCOMO, INC.
DURING BANDWIDTH PART	H04B 7/06	(72) TAKEDA, Kazuki
SWITCHING	H04W 16/28	MU, Qin
(73) QUALCOMM INCORPORATED	H04W 74/08	NAGATA, Satoshi
(72) JOHN WILSON, Makesh Pravin	(11) EP3413607	LIU, Liu
AKKARAKARAN, Sony	(21) EP17747606.6	(74) dr. ir. F.M. van Bouwelen
NAGARAJA, Sumeeth	(22) 03.02.2017	(47) 07.06.2023
LUO, Tao	(54) USER EQUIPMENT, AND RANDOM	<hr/>
ANG, Peter Pui Lok	ACCESS METHOD	(51) H04W 74/00
LEE, Heechoon	(73) NTT DOCOMO, INC.	H04L 5/00
(74) dr. R.C. van Duijvenbode c.s.	(72) NAGATA, Satoshi	H04W 72/04
(31) 201916298927	TAKEDA, Kazuki	H04W 74/08
201862647596 P	TAKEDA, Kazuaki	H04W 16/14
(32) 11.03.2019	YASUKAWA, Shimpei	H04W 88/08
23.03.2018	HARADA, Hiroki	H04W 8/18
(33) United States of America	(74) dr. ir. F.M. van Bouwelen	(11) EP3611990
United States of America	(31) 2016020323	(21) EP19201687.1
(47) 31.05.2023	(32) 04.02.2016	(22) 01.02.2012
(51) H04W 48/14	(33) Japan	(54) LOGICALLY DISTINCT NETWORK
H04W 16/28	(47) 07.06.2023	WITHIN A LTE NETWORK FOR
(11) EP3567752	(51) H04W 72/04	MACHINE TYPE COMMUNICATIONS
(21) EP17890371.2	H04L 27/26	(MTC) TERMINALS
(22) 09.01.2017	H04L 5/14	(73) SCA IPLA Holdings Inc.
(54) METHOD AND APPARATUS FOR	H04L 5/00	(72) LILIE, Andrew
ACQUIRING AND SENDING SYSTEM	(11) EP3410797	DARWOOD, Peter B
INFORMATION	(21) EP17744220.9	BEALE, Martin Warwick
(73) Beijing Xiaomi Mobile Software Co., Ltd.	(22) 25.01.2017	MCNAMARA, Darren Philip
(72) LIU, Yang	(54) USER TERMINAL, WIRELESS	(74) ir. W.J.J.M. Kempes
(74) J.M.H. Duyver lic.	BASE STATION, AND WIRELESS	(31) 201101981
(47) 10.05.2023	COMMUNICATION METHOD	(32) 04.02.2011
(51) H04W 52/02	(73) NTT DOCOMO, INC.	(33) United Kingdom
H04W 88/02	(72) NAGATA, Satoshi	(47) 07.06.2023
(11) EP4033820	TAKEDA, Kazuki	<hr/>
(21) EP21217727.3	HARADA, Hiroki	(51) H04W 74/00
(22) 16.09.2010	TAKEDA, Kazuaki	H04W 74/08
(54) ELECTRONIC DEVICE AND METHOD	(74) dr. ir. F.M. van Bouwelen	H04W 52/02
(73) Samsung Electronics Co., Ltd.	(31) 2016016194	(11) EP3777426
(72) KIM, Kwang-Choon	(32) 29.01.2016	(21) EP19719663.7
LEE, Yu-Jin	(33) Japan	(22) 26.03.2019
KWON, Sung	(47) 07.06.2023	(54) POWER OPTIMIZATIONS FOR
SONG, Hee-Jun	(51) H04W 72/12	TRANSMISSION OPPORTUNITY
KIM, Nam-Woo	H04L 27/26	(TXOP) MONITORING
(74) dr. R.C. van Duijvenbode c.s.	(11) EP3668242	(73) QUALCOMM Incorporated
(31) 20100041395	(21) EP19206406.1	(72) ZHANG, Xiaoxia
20090087422	(22) 15.12.2014	SUN, Jing
(32) 03.05.2010	(54) METHOD AND APPARATUS FOR	BHATTAD, Kapil
16.09.2009	TRANSMITTING WIRELESS LOCAL	THYAGARAJAN, Ananta Narayanan
(33) Korea (Republic)	AREA NETWORK DATA	(74) dr. R.C. van Duijvenbode c.s.
Korea (Republic)	(73) Huawei Technologies Co., Ltd.	(31) 201841011089
(47) 31.05.2023	(72) YANG, Xun	201916363654
(51) H04W 52/46	ZHANG, Jiayin	(32) 26.03.2018
		25.03.2019
		(33) India
		United States of America

- 
- (47) 31.05.2023
- 
- (51) H04W 76/19  
H04W 12/106  
H04W 12/08  
H04W 76/11
- (11) EP3578001  
(21) EP17837906.1  
(22) 27.12.2017
- (54) RADIO RESOURCE CONTROL  
RESUME WITHOUT CONTEXT FETCH
- (73) Telefonaktiebolaget LM Ericsson (publ)
- (72) RUGELAND, Patrik  
DA SILVA, Icaro L. J.  
MILDH, Gunnar
- (74) dr. R.C. van Duijvenbode c.s.
- (31) 201762454578 P  
(32) 03.02.2017
- (33) United States of America
- (47) 10.05.2023
- 
- (51) H04W 76/19  
H04W 36/00
- (11) EP3827640  
(21) EP20800504.1  
(22) 13.10.2020
- (54) FAST MCG FAILURE RECOVERY WITH  
SECONDARY NODE CHANGE
- (73) Google LLC
- (72) WU, Chih-Hsiang  
CHEN, Teming
- (74) ir. H.A. Witmans c.s.
- (31) 201962915013 P  
(32) 14.10.2019
- (33) United States of America
- (47) 05.04.2023
- 
- (51) H04W 88/02
- (11) EP3589074  
(21) EP19174278.2  
(22) 03.06.2013
- (54) METHOD AND TERMINAL DEVICE  
FOR KEEPING SUBSCRIBER IDENTITY  
MODULE CARD IN STANDBY STATE
- (73) Huawei Technologies Co., Ltd.
- (72) ZHU, Chunxi  
BAI, Zhidong  
PENG, Chenghui  
ZHAO, Yuqing
- (74) ir. W.J.J.M. Kempes
- (31) 201210374444  
(32) 27.09.2012  
(33) China
- (47) 12.04.2023
-

## EP4

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

(51) A61C 7/26	(72) Harrison, Nigel	(22) 18.05.2016
A61C 7/28	(31) 0412053	(54) COMPOSITIONS AND MEDICAL USES FOR TCR REPROGRAMMING USING FUSION PROTEINS
A61C 7/02	(32) 28.05.2004	(73) TCR2 Therapeutics Inc.
A61C 7/04	(33) United Kingdom	(74) ir. W.J.J.M. Kempes
A61C 7/20	(47) 13.05.2015	(72) BAEUERLE, Patrick
A61C 7/22	(51) B01J 8/04	HOFMEISTER, Robert
(11) EP2648644	C07C 29/153	SIECZKIEWICZ, Gregory
(21) EP11846451.0	C07C 31/04	(31) 201562163342 P
(22) 07.12.2011	C07C 29/152	(32) 18.05.2015
(54) ORTHODONTIC GRIPPING DEVICE	(11) EP3582886	(33) United States of America
(73) Strite Industries Ltd.	(21) EP18705374.9	(47) 05.08.2020
(74) ir. J.C. Volmer c.s.	(22) 13.02.2018	(51) C09D 11/40
(72) CHESTER, Neil	(54) METHOD FOR MAXIMIZING METHANOL YIELD BY USING CATALYST LAYERS	C09D 11/101
(31) 457013 P	(73) Clariant International Ltd	C08F 2/50
(32) 08.12.2010	L'Air Liquide Société Anonyme pour l'Etude et l'Exploitation des Procédés	C09D 11/322
(33) United States of America	Georges Claude	(11) EP1911814
(47) 28.03.2018	(74) ir. M.F.J.M. Ketelaars c.s.	(21) EP06122098.4
(51) A61K 39/00	(72) KAISER, Markus	(22) 11.10.2006
C07K 16/18	SEUFFERT, Wolfgang	(54) Methods for preparing curable pigment inkjet ink sets.
C07K 16/22	HENKEL, Tobias	(73) AGFA NV
C12N 15/63	FREUND, Hannsjörg	(72) Claes, Roland
C07K 14/51	FRIND, Robert	Deroover, Geert
(11) EP2301961	SCHUHMANN, Timm	(51) C12N 7/00
(21) EP10014373.4	WERNER, Sebastian	(11) EP3400293
(22) 28.04.2006	(31) 102017001520	(21) EP17701910.6
(54) SCLEROSTIN EPITOPES	(32) 15.02.2017	(22) 09.01.2017
(73) Amgen Inc.	(33) Germany	(54) MODIFIED ONCOLYTIC VIRUS
(72) Winters, Aaron George	(47) 30.12.2020	(73) Replimune Limited
Lawson, Alastair	(51) B65B 21/18	(74) ir. M.F.J.M. Ketelaars c.s.
Paszty, Christopher	B65B 21/20	(72) COFFIN, Robert
Latham, John	B65B 35/36	(31) 201600382
Winkler, David	B65B 5/06	201600381
Hoffmann, Kelly Sue	B65B 5/08	201600380
Henry, Alistair James	B65B 5/10	(32) 08.01.2016
Robinson, Martyn Kim	(11) EP3012198	08.01.2016
Lu, Hsieng Sen	(21) EP15189611.5	08.01.2016
(31) 410540	(22) 13.10.2015	(33) United Kingdom
792645 P	(54) DEVICE AND METHOD FOR HANDLING ITEMS	United Kingdom
782244 P	(73) Kronos Aktiengesellschaft	United Kingdom
776847 P	(74) drs. ir. M. Smit	(47) 16.09.2020
677583 P	(72) HOFSTETTER, Roland	(51) E06B 7/215
(32) 25.04.2006	HUTTER, Alban	(11) EP2924224
17.04.2006	FECHTER, Wolfgang	(21) EP15000903.3
13.03.2006	(31) 102014221233	(22) 27.03.2015
24.02.2006	(32) 20.10.2014	(54) CONTROLLABLY OPERATING DRAUGHT EXCLUDER DEVICE
03.05.2005	(33) Germany	(73) C.C.E. Costruzioni Chiusure Ermetiche S.r.l.
(33) United States of America	(47) 24.01.2018	(72) Geron, Luca
United States of America	(51) C07K 14/705	(31) VI20140082
United States of America	C07K 14/725	(32) 28.03.2014
United States of America	C07K 19/00	(33) Italy
United States of America	A61K 39/00	(47) 12.10.2016
(47) 22.02.2017	C07K 16/28	(51) F03D 13/20
(51) A61M 5/20	C07K 16/30	E04H 12/08
A61M 5/32	C12N 5/0783	E02D 27/42
(11) EP2319560	(11) EP3298033	(11) EP2574711
(21) EP10179733.0	(21) EP16797244.7	
(22) 27.05.2005		
(54) Injection device		
(73) Cilag GmbH International		



(21) EP12006627.9  
(22) 25.08.2004  
(54) Tower for a wind energy facility  
(73) Siemens Gamesa Renewable Energy  
Service GmbH  
(72) Schäfer, Stephan  
Weltkamp, Roland  
Hinz, Uwe  
(31) 10339438  
(32) 25.08.2003  
(33) Germany  
(47) 19.07.2017

---

(51) F24C 15/20  
(11) EP3411631  
(21) EP17704319.7  
(22) 26.01.2017  
(54) COOKER HOOD AND POWER SUPPLY  
ARRANGEMENT THEREOF  
(73) Intell Properties B.V.  
(74) ir. M.F.J.M. Ketelaars c.s.  
(72) HOEFSMIT, Marcel  
(31) 2016214  
(32) 03.02.2016  
(33) Netherlands  
(47) 22.01.2020

---

(51) G08B 21/14  
G08B 17/10  
(11) EP3147880  
(21) EP16174899.1  
(22) 17.06.2016  
(54) SUPERVISION AND CONTROL  
METHOD FOR PREVENTING POOR  
AIR QUALITY AND FIRE AS WELL  
AS ISSUING AN ALARM OF A  
DANGEROUS CONDITION  
(73) Innohome Oy  
(74) ir. J.C. Volmer c.s.  
(72) MYLLYMÄKI, Matti  
(31) 20155674  
(32) 21.09.2015  
(33) Finland  
(47) 27.01.2021

---

**EP5**

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

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

- (51) A61K 8/64  
A61K 8/66  
A61Q 19/00  
C07K 14/46  
C12N 9/64  
A61K 9/06  
A61P 17/00  
(11) EP2506825  
(21) EP10784313.8  
(22) 30.11.2010  
(54) HATCHING FLUID ENZYMES AND  
USES THEREOF  
(73) Aqua Bio Technology ASA  
(72) WALTHER, Bernt  
LEREN, Hans Kristian  
(74) J.M.H. Duyver lic.  
(31) 0921001  
(32) 30.11.2009  
(33) United Kingdom  
(47) 08.05.2019
- 
- (51) B21B 39/14  
(11) EP3049198  
(21) EP14766935.2  
(22) 05.09.2014  
(54) DEVICE FOR GUIDING METAL STRIPS  
WITH GRINDING BODIES  
(73) Primetals Technologies Austria GmbH  
(72) GRABNER, Walter  
SCHIEFER, Juergen  
FRAUENHUBER, Klaus  
MOSER, Friedrich  
(74) dr. R.C. van Duijvenbode c.s.  
(31) 13186131  
(32) 26.09.2013  
(33) European Patent Office (EPO)  
(47) 14.06.2017
- 
- (51) B61F 3/12  
(11) EP2817192  
(21) EP13706246.9  
(22) 22.02.2013  
(54) COUPLING FOR RAIL VEHICLES OR  
RAIL VEHICLE PARTS WITH ANGLE  
SENSOR  
(73) Bombardier Transportation GmbH  
(72) GRAFF, Mario  
DANIEL, André  
(74) ir. H.A. Witmans c.s.  
(31) 102012202838  
(32) 24.02.2012  
(33) Germany  
(47) 01.04.2020
-

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

(21) 300782	(95) inebilizumab
(22) 30.06.2023	(93) EU/1/21/1602 29.04.2022
(11) 300782	(47) 05.07.2023
(71) ONO Pharmaceutical Co., Ltd. E.R. Squibb & Sons, L.L.C. E.R. Squibb & Sons, L.L.C. ONO Pharmaceutical Co., Ltd.	(21) 301237 (22) 10.07.2023 (11) 301237 (74) ir. F.A. Geurts c.s. (68) EP3000467 (54) TREATMENT REGIMEN UTILIZING NERATINIB FOR BREAST CANCER
(74) ir. F.A. Geurts c.s. ir. F.A. Geurts c.s.	(94) 1260 (95) neratinib (93) EU/1/18/1311 04.09.2018
(68) EP2161336	
(54) Human monoclonal antibodies to programmed death 1(PD-1) and methods for treating cancer using anti-PD-1 antibodies alone or in combination with other immunotherapeutics	
(94) 1514	
(95) nivolumab	
(93) EU/1/15/1014 24.06.2015	
(21) 300783	
(22) 04.07.2023	
(11) 300783	
(71) Honjo, Tasuku ONO PHARMACEUTICAL CO., LTD. Honjo, Tasuku ONO PHARMACEUTICAL CO., LTD.	
(74) ir. F.A. Geurts c.s. ir. F.A. Geurts c.s.	
(68) EP1537878	
(54) IMMUNOPOTENTIATING COMPOSITIONS.	
(94) 1827	
(95) nivolumab	
(93) EU/1/15/1014 19.06.2015	
(21) 300789	
(22) 04.07.2023	
(11) 300789	
(71) Honjo, Tasuku ONO PHARMACEUTICAL CO., LTD. Honjo, Tasuku ONO PHARMACEUTICAL CO., LTD.	
(74) ir. F.A. Geurts c.s. ir. F.A. Geurts c.s.	
(68) EP1537878	
(54) IMMUNOPOTENTIATING COMPOSITIONS.	
(94) 1827	
(95) pembrolizumab	
(93) EU/1/15/1024 21.07.2015	
(21) 301196	
(22) 21.09.2022	
(11) 301196	
(73) Viela Bio, Inc.	
(74) mr. ir. J. van Breda c.s.	
(68) EP2066349	
(54) HUMANIZED ANTI-CD19 ANTIBODIES AND THEIR USE IN TREATMENT OF TUMORS, TRANSPLANTATION AND AUTOIMMUNE DISEASES.	
(94) 06.09.2032	

## VB1

**Rechten waarvoor een verzoek of bezwaarschrift is ingediend conform Octrooiwet 1995 en de Algemene Wet Bestuursrecht.****Contains data concerning requests and notices of opposition under the General administrative law.**

(11) EP2614842	(11) EP3810952
(51) A61L 27/30	(51) F16D 65/097
A61L 27/50	F16D 55/228
A61L 27/54	(00) 36/22
(00) 36/22	07.09.2022
07.09.2022	(11) EP3880802
(11) EP2877854	(51) A61K 38/00
(51) A61P 35/00	C07K 14/725
A61P 43/00	C12N 5/0783
C07K 14/71	C07K 14/705
C12N 9/12	A61K 48/00
C12Q 1/6886	(00) 36/22
(00) 36/22	07.09.2022
07.09.2022	(11) EP3883393
(11) EP2934938	(51) A23L 33/10
(51) B60K 31/04	A23L 33/12
B60W 30/14	A23L 33/21
B60W 30/16	A23L 33/00
B60W 40/076	A61K 31/19
F16H 59/66	A61K 31/702
B60W 30/095	A23C 9/20
B60W 50/00	A61P 3/02
B60W 40/04	(00) 36/22
B60W 50/14	07.09.2022
(00) 36/22	(11) EP3885716
07.09.2022	(51) G01F 23/00
(11) EP3661503	G01F 23/02
(51) A61K 31/4196	G01F 23/38
A61K 31/4439	G01F 23/80
A61P 31/10	F01M 11/06
A61P 15/02	F01M 11/12
(00) 36/22	F16N 19/00
07.09.2022	F25B 31/00
(11) EP3685131	F25B 49/00
(51) G01N 21/76	G05D 9/00
G01J 1/44	(00) 36/22
G01N 21/27	07.09.2022
G01N 33/53	(11) EP3913298
G01N 21/13	(51) F24H 1/12
(00) 36/22	F24H 9/00
07.09.2022	F24H 9/1818
(11) EP3694483	F24H 9/14
(51) A61K 8/44	H05B 3/04
A61Q 5/02	H05B 3/44
A61Q 5/12	F24H 1/10
A61K 8/73	(00) 36/22
A61K 8/81	07.09.2022
A61K 8/04	(11) EP3919339
A61K 8/46	(51) B61D 27/00
(00) 36/22	B60H 1/00
07.09.2022	(00) 36/22
(11) EP3705955	07.09.2022
(51) G05B 19/042	
(00) 03.07.2023	
(00) 02/23	
11.01.2023	
(00) Restoration of rights	
(00) Krohne Messtechnik GmbH	

## VB2

**Rechten waarvoor een beslissing is genomen op een verzoek- of bezwaarschrift conform de Octrooiwet 1995.**

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

(11) 2029960	(11) EP2954786	09.12.2020
(51) G06F 13/42	(51) A23L 2/60	(11) EP3445568
(00) 49/22	A23L 27/30	(51) B29C 64/106
07.12.2022	(00) 06/19	B29C 64/209
(00) 05.07.2023	06.02.2019	B33Y 30/00
(00) Positive	(11) EP2995603	(11) EP3524694
(11) EP2302004	(51) C07C 17/25	(51) C12Q 1/6869
(51) C09C 1/56	C07C 17/354	C12Q 1/6886
G03G 9/09	C07C 19/08	(00) 20/21
C09D 11/037	C07C 21/18	19.05.2021
C09D 11/324	(11) EP3177704	
(00) 24/19	(51) C12M 1/00	
12.06.2019	(11) EP3193261	
(11) EP2429310	(51) G06F 40/131	
(51) A23J 1/14	G06F 40/166	
A23J 3/16	G06F 40/197	
A23J 3/00	(00) 36/21	
C07K 14/415	08.09.2021	
(11) EP2588282	(11) EP3331894	
(51) B26B 21/22	(51) A61K 31/443	
B26B 21/40	A61K 31/661	
B26B 21/52	A61K 31/665	
(11) EP2768324	A61P 3/00	
(51) A61K 35/20	A61P 3/08	
A61P 3/04	A61P 9/00	
A23L 33/10	A61P 17/00	
A23L 33/19	A61P 25/28	
(11) EP2768324	A61P 31/12	
(51) A61K 35/20	A61P 35/00	
A61P 3/04	A61P 43/00	
A23L 33/10	C07F 9/06	
A23L 33/19	C07F 9/547	
(11) EP2771387	C07H 11/04	
(51) C08J 3/03	(00) 51/21	
C08J 3/215	22.12.2021	
C08K 13/04	(11) EP3362156	
C08L 1/02	(51) A63B 43/04	
C09D 101/02	A63B 37/12	
D21B 1/12	A63B 37/14	
D21C 9/00	A63B 24/00	
D21D 1/20	A61H 15/00	
D21H 11/18	A61H 23/02	
D21H 15/02	A63B 21/06	
(11) EP2795134	A63B 23/12	
(51) F04D 7/04	A63B 21/00	
F04D 15/00	(00) 26/22	
F04D 15/02	29.06.2022	
F04D 29/70	(00) 05.07.2023	
(11) EP2880640	(00) Negative	
(51) G07D 11/12	(11) EP3372358	
G07D 11/125	(51) B26B 21/52	
E05G 1/14	(00) 21/22	
(11) EP2924193	25.05.2022	
(51) E04H 17/14	(11) EP3378952	
E04H 17/16	(51) C12Q 1/6869	
F16B 7/00	C12Q 1/6886	
	(00) 50/20	

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

(11) 2025348	(51) B65B 21/18
(00) 03.07.2023	B65B 21/20
(51) G01M 11/00	B65B 35/36
H04B 10/071	B65B 5/06
(00) Based on request sender	B65B 5/08
	B65B 5/10
(11) 2026561	(11) EP3147880
(00) 30.06.2023	(51) G08B 21/14
(51) A47D 13/02	G08B 17/10
(00) Established	(11) EP3298033
(11) 2026562	(51) C07K 14/705
(00) 30.06.2023	C07K 14/725
(51) A47D 13/02	C07K 19/00
(00) Established	A61K 39/00
(11) 2028878	C07K 16/28
(00) 15.05.2023	C07K 16/30
(51) E06B 1/70	C12N 5/0783
E06B 1/34	(11) EP3400293
(11) 2029063	(51) C12N 7/00
(00) 06.07.2023	(11) EP3411631
(51) B65G 47/24	(51) F24C 15/20
B65G 65/00	(11) EP3582886
A23N 15/08	(51) B01J 8/04
B65B 5/10	C07C 29/153
B65B 25/04	C07C 31/04
(00) Based on clerical error	C07C 29/152
(11) 2029265	
(00) 05.07.2023	
(51) F16C 29/00	
(11) 2029702	
(00) 04.07.2023	
(51) G02B 6/42	
H01L 25/16	
(11) EP1911814	
(51) C09D 11/40	
C09D 11/101	
C08F 2/50	
C09D 11/322	
(11) EP2301961	
(51) A61K 39/00	
C07K 16/18	
C07K 16/22	
C12N 15/63	
C07K 14/51	
(11) EP2319560	
(51) A61M 5/20	
A61M 5/32	
(11) EP2574711	
(51) F03D 13/20	
E04H 12/08	
E02D 27/42	
(11) EP2648644	
(51) A61C 7/26	
A61C 7/28	
A61C 7/02	
A61C 7/04	
A61C 7/20	
A61C 7/22	
(11) EP2924224	
(51) E06B 7/215	
(11) EP3012198	

## VRV

## Verval of nietigverklaring.

## Contains data concerning lapse or annulment.

(11) 1023835	(00) Patent Expired	(00) Patent Expired
(00) 07.07.2023	(11) EP1495948	(11) EP1523695
(00) Patent Expired	(00) 11.07.2023	(00) 10.07.2023
(11) 1023868	(00) Patent Expired	(00) Patent Expired
(00) 09.07.2023	(11) EP1496714	(11) EP1523832
(00) Patent Expired	(00) 10.07.2023	(00) 11.07.2023
(11) 1023884	(00) Patent Expired	(00) Patent Expired
(00) 10.07.2023	(11) EP1519762	(11) EP1526856
(00) Patent Expired	(00) 09.07.2023	(00) 11.07.2023
(11) 1023897	(00) Patent Expired	(00) Patent Expired
(00) 11.07.2023	(11) EP1519777	(11) EP1529247
(00) Patent Expired	(00) 09.07.2023	(00) 09.07.2023
(11) 300457	(00) Patent Expired	(00) Patent Expired
(00) 09.07.2023	(11) EP1519899	(11) EP1532541
(00) SPC Expired	(00) 09.07.2023	(00) 10.07.2023
(11) EP1380333	(00) Patent Expired	(00) Patent Expired
(00) 08.07.2023	(11) EP1519944	(11) EP1532746
(00) Patent Expired	(00) 07.07.2023	(00) 11.07.2023
(11) EP1380430	(00) Patent Expired	(00) Patent Expired
(00) 10.07.2023	(11) EP1520008	(11) EP1532789
(00) Patent Expired	(00) 08.07.2023	(00) 07.07.2023
(11) EP1381101	(00) Patent Expired	(00) Patent Expired
(00) 10.07.2023	(11) EP1520018	(11) EP1534096
(00) Patent Expired	(00) 07.07.2023	(00) 09.07.2023
(11) EP1382355	(00) Patent Expired	(00) Patent Expired
(00) 09.07.2023	(11) EP1520151	(11) EP1534388
(00) Patent Expired	(00) 08.07.2023	(00) 07.07.2023
(11) EP1382620	(00) Patent Expired	(00) Patent Expired
(00) 08.07.2023	(11) EP1520174	(11) EP1537247
(00) Patent Expired	(00) 07.07.2023	(00) 07.07.2023
(11) EP1382661	(00) Patent Expired	(00) Patent Expired
(00) 11.07.2023	(11) EP1521522	(11) EP1539231
(00) Patent Expired	(00) 07.07.2023	(00) 07.07.2023
(11) EP1382686	(00) Patent Expired	(00) Patent Expired
(00) 11.07.2023	(11) EP1521762	(11) EP1539995
(00) Patent Expired	(00) 08.07.2023	(00) 11.07.2023
(11) EP1383158	(00) Patent Expired	(00) Patent Expired
(00) 08.07.2023	(11) EP1521774	(11) EP1540089
(00) Patent Expired	(00) 09.07.2023	(00) 10.07.2023
(11) EP1384451	(00) Patent Expired	(00) Patent Expired
(00) 12.07.2023	(11) EP1521831	(11) EP1543165
(00) Patent Expired	(00) 09.07.2023	(00) 11.07.2023
(11) EP1385185	(00) Patent Expired	(00) Patent Expired
(00) 08.07.2023	(11) EP1522203	(11) EP1546011
(00) Patent Expired	(00) 09.07.2023	(00) 09.07.2023
(11) EP1385270	(00) Patent Expired	(00) Patent Expired
(00) 07.07.2023	(11) EP1522204	(11) EP1547146
(00) Patent Expired	(00) 09.07.2023	(00) 09.07.2023
(11) EP1388580	(00) Patent Expired	(00) Patent Expired
(00) 11.07.2023	(11) EP1523242	(11) EP1550474
(00) Patent Expired	(00) 07.07.2023	(00) 10.07.2023
(11) EP1393802	(00) Patent Expired	(00) Patent Expired
(00) 10.07.2023	(11) EP1523270	(11) EP1551913
(00) Patent Expired	(00) 11.07.2023	(00) 08.07.2023
(11) EP1406451	(00) Patent Expired	(00) Patent Expired
(00) 07.07.2023	(11) EP1523510	(11) EP1553178
(00) Patent Expired	(00) 08.07.2023	(00) 07.07.2023
(11) EP1443829	(00) Patent Expired	(00) Patent Expired
(00) 08.07.2023	(11) EP1523593	(11) EP1585966
	(00) 11.07.2023	(00) 11.07.2023

(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP1646444	(11) EP2342302	(11) EP2759110
(00) 10.07.2023	(00) 26.01.2023	(00) 08.03.2023
(00) Patent Expired	(00) European Patent got Revoked	(00) EPV Ceased Effect
(11) EP1685545	(11) EP2343829	(11) EP2762272
(00) 08.03.2023	(00) 11.07.2023	(00) 08.03.2023
(00) EPV Ceased Effect	(00) Patent Expired	(00) EPV Ceased Effect
(11) EP1742479	(11) EP2426478	(11) EP2765418
(00) 07.07.2023	(00) 08.03.2023	(00) 08.03.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP1742480	(11) EP2434522	(11) EP2772249
(00) 07.07.2023	(00) 08.07.2023	(00) 03.03.2023
(00) Patent Expired	(00) Patent Expired	(00) European Patent got Revoked
(11) EP1876247	(11) EP2513424	(11) EP2777157
(00) 07.07.2023	(00) 08.03.2023	(00) 08.03.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP1880313	(11) EP2550714	(11) EP2780360
(00) 08.03.2023	(00) 08.03.2023	(00) 08.03.2023
(00) EPV Ceased Effect	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP1911700	(11) EP2554335	(11) EP2785411
(00) 09.07.2023	(00) 08.03.2023	(00) 08.03.2023
(00) Patent Expired	(00) EPV Ceased Effect	(00) EPV Ceased Effect
(11) EP2069553	(11) EP2579601	(11) EP2785803
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(11) EP3941956	(11) EP3962308	(11) EP3976936
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(11) EP3941975	(11) EP3963278	(11) EP3976985
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(11) EP3943266	(11) EP3966382	(11) EP3984438
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(11) EP3959068	(11) EP3974515	(11) EP4009452
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(11) EP4010404	(11) EP4048631
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(11) EP4010747	(11) EP4049165
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(11) EP4011480	(11) EP4049516
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(11) EP4012397	(11) EP4049883
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(11) EP4014801	(11) EP4054012
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(11) EP4014934	(11) EP4066432
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(11) EP4016729	(11) EP4074484
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(11) EP4046468	
(00) 08.03.2023	

**VRB**

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

(11) 2029631  
(48) 12.07.2023  
(00) Change of owner details  
(51) B65C 9/00

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## CO

## Ingeschreven overdrachten.

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

(71) PWNT Holding B.V.	(73) VOMM IMPIANTI E PROCESSI S.P.A.	H04W 4/02
(73) PWNT Holding B.V.	(11) EP1590393	H04W 8/22
(11) 2010002	(00) 30.06.2023	(00) Assignment
(00) 05.07.2023	(51) C08G 63/78	(71) Bayer CropScience Aktiengesellschaft
(51) B01D 29/52	C08G 63/80	(73) Bayer CropScience Aktiengesellschaft
B01D 29/60	(00) Assignment	(11) EP1807401
B01D 29/66	(71) Bayer CropScience Aktiengesellschaft	(00) 30.06.2023
B01D 37/04	(73) Bayer CropScience Aktiengesellschaft	(51) C07D 239/52
(00) Assignment	(11) EP1682515	(00) Assignment
(71) Zamqua Holding B.V.	(00) 30.06.2023	(71) Bayer CropScience Aktiengesellschaft
(73) Zamqua Holding B.V.	(51) C07D 231/14	(73) Bayer CropScience Aktiengesellschaft
(11) 2014868	C07D 263/34	(11) EP1651040
(00) 05.07.2023	C07D 277/30	(00) 30.06.2023
(51) B23D 17/02	(00) Assignment	(51) A01N 43/653
F16H 25/00	(71) Bayer CropScience Aktiengesellschaft	A01N 43/88
(00) Assignment	(73) Bayer CropScience Aktiengesellschaft	A01P 3/00
(71) Zamqua Holding B.V.	(11) EP1725105	(00) Assignment
(73) Zamqua Holding B.V.	(00) 30.06.2023	(71) Bayer CropScience Aktiengesellschaft
(11) 2014930	(51) A01N 43/38	(73) Bayer CropScience Aktiengesellschaft
(00) 05.07.2023	A01N 47/06	(11) EP1843950
(51) B64F 1/22	(00) Assignment	(00) 30.06.2023
B66F 3/35	(71) Bayer CropScience Aktiengesellschaft	(51) B65D 73/00
(00) Assignment	(73) Bayer CropScience Aktiengesellschaft	(00) Assignment
(71) Bayer CropScience Aktiengesellschaft	(11) EP1755380	(71) Bayer CropScience Aktiengesellschaft
(73) Bayer CropScience Aktiengesellschaft	(00) 30.06.2023	(73) Bayer CropScience Aktiengesellschaft
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(11) EP1651044	(11) EP1833793	(11) EP1695621
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A01N 47/36	C07D 213/61	A01N 25/04
(00) Assignment	(00) Assignment	A01N 25/10
(71) Bayer CropScience Aktiengesellschaft	(71) VOMM IMPIANTI E PROCESSI S.P.A.	A01N 25/30
(73) Bayer CropScience Aktiengesellschaft	(73) VOMM IMPIANTI E PROCESSI S.P.A.	A01N 51/00
(11) EP1678119	(11) EP1601920	(00) Assignment
(00) 30.06.2023	(00) 30.06.2023	(71) FLEXENABLE TECHNOLOGY LIMITED
(51) C07C 229/36	(51) F26B 7/00	(73) FLEXENABLE TECHNOLOGY LIMITED
C07D 231/14	F26B 17/20	(11) EP1687830
(00) Assignment	F26B 25/00	(00) 06.07.2023
(71) Yunex Traffic Austria GmbH	(00) Assignment	(51) C08L 39/04
(73) Yunex Traffic Austria GmbH	(71) Bayer CropScience Aktiengesellschaft	H01B 1/12
(11) EP1537541	(73) Bayer CropScience Aktiengesellschaft	H01B 1/20
(00) 05.07.2023	(11) EP1830651	H01L 51/30
(51) G01C 21/00	(00) 30.06.2023	(00) Assignment
G07B 15/00	(51) A01N 37/50	(71) Bayer CropScience Aktiengesellschaft
(00) Assignment	A01N 43/40	(73) Bayer CropScience Aktiengesellschaft
(71) FlexEnable Ltd.	A01N 47/24	(11) EP1737807
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H01L 51/30	(73) Nokia Technologies Oy	(00) 30.06.2023
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	(51) H04B 1/40	(71) Diversey, Inc.

(73) Diversey, Inc. (11) EP2362008 (00) 05.07.2023 (51) A47L 15/42 D06F 31/00 D06F 33/02 D06F 39/02 D06F 39/08 (00) Assignment	(71) Bayer CropScience Aktiengesellschaft (73) Bayer CropScience Aktiengesellschaft (11) EP2079303 (00) 30.06.2023 (51) A01N 25/04 A01N 25/14 A01N 25/30 A01N 37/50 A01N 41/10 A01N 43/40 A01N 43/56 A01N 43/653 A01N 47/02 A01N 47/06 A01N 47/36 A01N 47/38 A01N 51/00 A01P 3/00 A01P 7/04 (00) Assignment	A01P 3/00 A01P 5/00 A01P 7/02 A01P 7/04 (00) Assignment
(71) Hewlett-Packard Development Company, L.P. (73) Hewlett-Packard Development Company, L.P. (11) EP1914724 (00) 05.07.2023 (51) G10L 19/02 (00) Assignment	(71) Bayer CropScience Aktiengesellschaft (73) Bayer CropScience Aktiengesellschaft (11) EP1902070 (00) 30.06.2023 (51) C08B 37/18 (00) Assignment	(71) Bayer CropScience Aktiengesellschaft (73) Bayer CropScience Aktiengesellschaft (11) EP2185500 (00) 30.06.2023 (51) C07B 37/04 C07C 209/68 (00) Assignment
(71) Hewlett-Packard Development Company, L.P. (73) Hewlett-Packard Development Company, L.P. (11) EP1914725 (00) 05.07.2023 (51) G10L 19/02 (00) Assignment	(71) Bayer CropScience Aktiengesellschaft (73) Bayer CropScience Aktiengesellschaft (11) EP2569283 (00) 30.06.2023 (51) C07D 209/34 (00) Assignment	(71) Bayer CropScience Aktiengesellschaft (73) Bayer CropScience Aktiengesellschaft (11) EP2257530 (00) 30.06.2023 (51) C07D 213/82 C07D 231/14 (00) Assignment
(71) Bayer CropScience Aktiengesellschaft (73) Bayer CropScience Aktiengesellschaft (11) EP2015646 (00) 30.06.2023 (51) A23L 1/27 A23L 2/82 C08B 37/00 (00) Assignment	(71) Bayer CropScience Aktiengesellschaft (73) Bayer CropScience Aktiengesellschaft (11) EP2814811 (00) 30.06.2023 (51) C07D 211/12 C07F 3/06 C07F 19/00 (00) Assignment	(71) Bayer CropScience Aktiengesellschaft (73) Bayer CropScience Aktiengesellschaft (11) EP2464636 (00) 30.06.2023 (51) C07D 307/60 (00) Assignment
(71) Bayer CropScience Aktiengesellschaft (73) Bayer CropScience Aktiengesellschaft (11) EP2027161 (00) 30.06.2023 (51) A23L 1/00 A23L 1/308 A61K 8/73 C08B 37/18 (00) Assignment	(71) YOKOGAWA ELECTRIC CORPORATION (73) YOKOGAWA ELECTRIC CORPORATION (11) EP2118638 (00) 30.06.2023 (51) F23N 5/00 F23N 5/08 G01N 21/31 G01N 21/39 G01N 27/62 G01N 27/64 G01N 21/35 G01N 21/3504 (00) Assignment	(71) Bayer CropScience Aktiengesellschaft (73) Bayer CropScience Aktiengesellschaft (11) EP2252165 (00) 30.06.2023 (51) A23C 9/137 A23D 7/005 A23L 1/054 A23L 1/24 A23L 1/308 (00) Assignment
(71) Bayer CropScience Aktiengesellschaft (73) Bayer CropScience Aktiengesellschaft (11) EP2016104 (00) 30.06.2023 (51) A23L 1/00 A23L 1/308 A61K 8/73 C08B 37/18 (00) Assignment	(71) Bayer CropScience Aktiengesellschaft (73) Bayer CropScience Aktiengesellschaft (11) EP2797899 (00) 30.06.2023 (51) A01N 43/80 C07D 211/62 C07D 261/08 C07D 417/14 C07D 419/14 (00) Assignment	(71) Bayer CropScience Aktiengesellschaft (73) Bayer CropScience Aktiengesellschaft (11) EP2473476 (00) 30.06.2023 (51) C07C 201/12 C07C 205/06 C07C 205/12 C07C 209/68 C07C 231/12 C07C 233/15 C07F 5/02 (00) Assignment
(71) Bayer CropScience Aktiengesellschaft (73) Bayer CropScience Aktiengesellschaft (11) EP2265122 (00) 30.06.2023 (51) A01N 25/00 A01N 37/46 A01N 43/653 A01N 51/00	(71) Bayer CropScience Aktiengesellschaft (73) Bayer CropScience Aktiengesellschaft (11) EP2320721 (00) 30.06.2023 (51) A01N 25/04 A01N 37/50 A01N 41/10	(71) Bayer CropScience Aktiengesellschaft (73) Bayer CropScience Aktiengesellschaft (11) EP2809664 (00) 30.06.2023 (51) C07D 317/12 (00) Assignment

A01N 43/36	(51) C07D 307/68	(11) EP2249848
A01N 43/40	(00) Assignment	(00) 03.07.2023
A01N 43/54	(71) Sealed Air Corporation (US)	(51) A61K 31/05
A01N 43/56	(73) Diversey, Inc.	A61K 31/35
A01N 43/653	(11) EP2362008	A61K 31/352
A01N 43/88	(00) 05.07.2023	A61K 36/185
A01N 47/02	(51) A47L 15/42	A61K 45/06
A01N 47/06	D06F 31/00	A61P 25/18
A01N 47/24	D06F 33/02	A61P 25/22
A01N 47/38	D06F 39/02	(00) Assignment
A01N 47/40	D06F 39/08	(71) NOVENTURE, S.L.
A01N 51/00	(00) Assignment	(73) NOVENTURE, S.L.
(00) Assignment	(71) Hewlett-Packard Development Company, L.P.	(11) EP2431046
(71) Nokia Technologies Oy	(73) Hewlett-Packard Development Company, L.P.	(00) 30.06.2023
(73) Nokia Technologies Oy	(73) Hewlett-Packard Development Company, L.P.	(51) A61K 45/06
(11) EP1829292	(11) EP1517506	A61K 35/28
(00) 05.07.2023	(00) 05.07.2023	(00) Assignment
(51) H04W 48/16	(51) H04L 12/18	(71) Bayer CropScience Aktiengesellschaft
(00) Assignment	(51) H04L 29/06	(73) Bayer CropScience Aktiengesellschaft
(71) Bayer CropScience Aktiengesellschaft	H04N 7/15	(11) EP2245934
(73) Bayer CropScience Aktiengesellschaft	(00) Assignment	(00) 30.06.2023
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(51) A01N 25/30	(11) EP2393363	A01N 43/40
A01N 43/40	(00) 30.06.2023	A01P 3/00
A01N 47/40	(51) A01N 43/80	A23B 7/154
A01N 51/00	A01P 1/00	(00) Assignment
A01P 7/02	(00) Assignment	(71) Bayer CropScience Aktiengesellschaft
A01P 7/04	(71) Bayer CropScience Aktiengesellschaft	(73) Bayer CropScience Aktiengesellschaft
(00) Assignment	(73) Bayer CropScience Aktiengesellschaft	(11) EP2406205
(71) Bayer CropScience Aktiengesellschaft	(11) EP2655361	(00) 30.06.2023
(73) Bayer CropScience Aktiengesellschaft	(00) 30.06.2023	(51) C07C 17/093
(11) EP2366287	(51) C07D 403/04	C07C 25/02
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(51) A01N 25/02	(71) Bayer CropScience Aktiengesellschaft	(71) Servicio Andaluz de Salud
A01N 25/04	(73) Bayer CropScience Aktiengesellschaft	QUESPER R&D, S.L.
A01N 25/30	(11) EP2560961	SANYRES SUR S.L.
A01N 57/20	(00) 30.06.2023	(73) NOVENTURE, S.L.
A01P 13/00	(51) C07D 231/16	(11) EP2431046
(00) Assignment	(00) Assignment	(00) 30.06.2023
(71) Bayer CropScience Aktiengesellschaft	(71) Bayer CropScience Aktiengesellschaft	(51) A61K 45/06
(73) Bayer CropScience Aktiengesellschaft	(73) Bayer CropScience Aktiengesellschaft	A61K 35/28
(11) EP2526081	(11) EP2424835	(00) Merge
(00) 30.06.2023	(00) 30.06.2023	(71) Bayer CropScience Aktiengesellschaft
(51) C07C 45/68	(51) C07C 319/20	(73) Bayer CropScience Aktiengesellschaft
C07C 67/343	C07C 323/58	(11) EP2195284
C07C 69/612	C07D 209/30	(00) 30.06.2023
C07C 69/616	C07D 209/34	(51) C07C 227/16
C07C 69/734	(00) Assignment	C07C 229/30
C07C 69/738	(71) Inpharsearch AG	(00) Assignment
C07C 69/76	(73) Inpharsearch AG	(71) Bayer CropScience Aktiengesellschaft
C07D 295/192	(11) EP2943215	(73) Bayer CropScience Aktiengesellschaft
(00) Assignment	(00) 05.07.2023	(11) EP2114855
(71) Bayer CropScience Aktiengesellschaft	(51) A61K 38/40	(00) 30.06.2023
(73) Bayer CropScience Aktiengesellschaft	A61P 25/00	(51) C07C 67/343
(11) EP2233000	C07K 14/79	C07C 69/716
(00) 30.06.2023	(00) Assignment	(00) Assignment
(51) A01N 3/00	(71) GW Pharma Limited	(71) Bayer CropScience Aktiengesellschaft
A01N 3/02	(73) GW Pharma Limited	(73) Bayer CropScience Aktiengesellschaft
A01N 43/56	(11) EP2448637	(11) EP2516421
A01P 3/00	(00) 03.07.2023	(00) 30.06.2023
A23B 7/154	(51) A61P 25/08	(51) C07D 405/12
(00) Assignment	A61K 31/352	C07D 417/12
(71) Bayer CropScience Aktiengesellschaft	(00) Assignment	(00) Assignment
(73) Bayer CropScience Aktiengesellschaft	(71) GW Pharma Limited	(71) VOMM IMPIANTI E PROCESSI S.P.A.
(11) EP2193128	(73) GW Pharma Limited	(73) VOMM IMPIANTI E PROCESSI S.P.A.
(00) 30.06.2023	(73) GW Pharma Limited	(11) EP2386207

(00) 30.06.2023	A61P 35/00	(71) Bayer CropScience Aktiengesellschaft
(51) A23C 19/086	(00) Assignment	(73) Bayer CropScience Aktiengesellschaft
(00) Assignment	(71) SANDOS INVEST Co B.V.	(11) EP3103340
(71) Bayer CropScience Aktiengesellschaft	(73) SANDOS INVEST Co B.V.	(00) 30.06.2023
(73) Bayer CropScience Aktiengesellschaft	(11) EP2666726	(51) A01N 43/40
(11) EP2531030	(00) 30.06.2023	A01N 63/00
(00) 30.06.2023	(51) B65B 43/16	A01P 5/00
(51) A01N 43/40	B65B 43/18	A01P 7/00
A01N 43/90	B65B 43/30	(00) Assignment
A01P 7/04	B65B 43/32	(71) Bayer CropScience Aktiengesellschaft
A01N 65/00	B65B 51/14	(73) Bayer CropScience Aktiengesellschaft
A01N 65/26	(00) Assignment	(11) EP2751100
(00) Assignment	(71) Bayer CropScience Aktiengesellschaft	(00) 30.06.2023
(71) Bayer CropScience Aktiengesellschaft	(73) Bayer CropScience Aktiengesellschaft	(51) C07D 417/04
(73) Bayer CropScience Aktiengesellschaft	(11) EP2491798	C07D 417/06
(11) EP2373157	(00) 30.06.2023	(00) Assignment
(00) 30.06.2023	(51) A21D 2/18	(71) Bayer CropScience Aktiengesellschaft
(51) A01N 25/04	A23C 9/13	(73) Bayer CropScience Aktiengesellschaft
A01N 41/10	A23C 9/137	(11) EP2921495
A01P 13/02	A23C 9/15	(00) 30.06.2023
(00) Assignment	A23D 7/005	(51) A01N 43/80
(71) Bayer CropScience Aktiengesellschaft	A23G 1/40	C07D 419/14
(73) Bayer CropScience Aktiengesellschaft	A23G 3/42	(00) Assignment
(11) EP2459512	A23G 9/34	(71) Bayer CropScience Aktiengesellschaft
(00) 30.06.2023	A23L 1/054	(73) Bayer CropScience Aktiengesellschaft
(51) C07C 209/08	A23L 1/24	(11) EP2814832
C07C 211/15	A23L 1/307	(00) 30.06.2023
(00) Assignment	A23L 1/308	(51) C07D 211/12
(71) Bayer CropScience Aktiengesellschaft	A61K 8/73	C07F 3/06
(73) Bayer CropScience Aktiengesellschaft	A61Q 19/00	(00) Assignment
(11) EP2611785	(00) Assignment	(71) BMG Incorporated
(00) 30.06.2023	(71) Bayer CropScience Aktiengesellschaft	(73) BMG Incorporated
(51) A01N 43/40	(73) Bayer CropScience Aktiengesellschaft	(11) EP2305792
A01N 43/653	(11) EP2729462	(00) 05.07.2023
A01N 43/713	(00) 30.06.2023	(51) A01N 1/02
C07D 249/14	(51) A01N 43/713	(00) Merge
C07D 257/06	C07D 401/14	(71) Dalian University of Technology
C07D 401/12	(00) Assignment	ECO Bio-Grease Technology Company
(00) Assignment	(71) Bayer CropScience Aktiengesellschaft	Limited
(71) Bayer CropScience Aktiengesellschaft	(73) Bayer CropScience Aktiengesellschaft	(73) ECO Bio-Grease Technology Company
(73) Bayer CropScience Aktiengesellschaft	(11) EP2681202	Limited
(11) EP2921493	(00) 30.06.2023	Dalian University of Technology
(00) 30.06.2023	(51) C07D 307/68	(11) EP2719746
(51) A01N 43/40	(00) Assignment	(00) 30.06.2023
A01N 43/80	(71) Bayer CropScience Aktiengesellschaft	(51) C10G 3/00
C07D 211/62	(73) Bayer CropScience Aktiengesellschaft	C10G 11/05
C07D 261/04	(11) EP2683695	C10G 65/12
C07D 261/08	(00) 30.06.2023	C10G 69/04
C07D 417/14	(51) C07D 235/02	C11B 3/12
C07D 419/14	(00) Assignment	C11C 3/12
(00) Assignment	(71) Bayer CropScience Aktiengesellschaft	(00) Assignment
(71) Bayer CropScience Aktiengesellschaft	(73) Bayer CropScience Aktiengesellschaft	(71) VOMM IMPIANTI E PROCESSI S.P.A.
(73) Bayer CropScience Aktiengesellschaft	(11) EP2955176	(73) VOMM IMPIANTI E PROCESSI S.P.A.
(11) EP2655346	(00) 30.06.2023	(11) EP3277729
(00) 30.06.2023	(51) A01N 43/713	(00) 30.06.2023
(51) A01N 43/66	C07D 401/14	(51) C08B 31/18
C07D 251/20	(00) Assignment	(00) Assignment
C07D 403/04	(71) Hewlett-Packard Development Company, L.P.	(71) Bayer CropScience Aktiengesellschaft
(00) Assignment	(73) Hewlett-Packard Development Company, L.P.	(73) Bayer CropScience Aktiengesellschaft
(71) ATNX SPV, LLC	(11) EP2658282	(11) EP2655360
(73) ATNX SPV, LLC	(00) 05.07.2023	(00) 30.06.2023
(11) EP2558085	(51) H04N 7/15	(51) C07D 403/04
(00) 05.07.2023	H04R 3/00	(00) Assignment
(51) A61K 31/137	H04R 3/02	(71) Bayer CropScience Aktiengesellschaft
A61K 31/4418	(00) Assignment	(73) Bayer CropScience Aktiengesellschaft
A61K 31/496		(11) EP2512249
A61K 31/5375		(00) 30.06.2023



(51) A01N 33/18	(73) Bayer CropScience Aktiengesellschaft	C07C 209/62
A01N 43/707	(11) EP2597951	C07C 211/15
A01N 43/82	(00) 30.06.2023	C07C 211/27
A01P 13/02	(51) A01N 37/50	(00) Assignment
(00) Assignment	A01N 43/40	(71) SRAM Deutschland GmbH
(71) Bayer CropScience Aktiengesellschaft	(00) Assignment	(73) SRAM, LLC.
(73) Bayer CropScience Aktiengesellschaft	(71) PWNT Holding B.V.	(11) EP3628580
(11) EP2688885	(73) PWNT Holding B.V.	(00) 05.07.2023
(00) 30.06.2023	(11) EP2934736	(51) B62M 6/50
(51) A01N 43/824	(00) 05.07.2023	B62M 6/55
A01P 13/00	(51) B01J 8/18	B62J 45/411
C07D 271/07	B01J 8/22	B62J 45/421
C07D 413/04	B01J 20/34	(00) Assignment
C07D 413/12	B01J 49/10	(71) Niterra Co., Ltd.
C07D 413/14	(00) Assignment	(73) Niterra Co., Ltd.
C07F 9/40	(71) PWNT Holding B.V.	(11) EP3476814
(00) Assignment	(73) PWNT Holding B.V.	(00) 05.07.2023
(71) Shenzhen Invention Discovery Co., LTD.	(11) EP2934719	(51) C04B 35/117
(73) Shenzhen Invention Discovery Co., LTD.	(00) 05.07.2023	C09K 11/08
(11) EP2583147	(51) B01D 29/52	C09K 11/80
(00) 05.07.2023	B01D 29/60	C04B 35/10
(51) G01S 5/16	B01D 29/66	C04B 35/44
G05D 1/00	B01D 37/04	C09K 11/00
G06F 17/00	(00) Assignment	C09K 11/62
G05D 1/02	(71) Bayer CropScience Aktiengesellschaft	C09K 11/77
(00) Assignment	(73) Bayer CropScience Aktiengesellschaft	C04B 35/626
(71) VOMM IMPIANTI E PROCESSI S.P.A.	(11) EP2691379	C04B 35/64
(73) VOMM IMPIANTI E PROCESSI S.P.A.	(00) 30.06.2023	(00) Change of owner(s) name
(11) EP2311884	(51) A01N 43/80	(71) Boers Holding B.V.
(00) 30.06.2023	C07D 261/04	(73) Boers Holding B.V.
(51) C08B 31/18	C07D 413/12	(11) 2028548
(00) Assignment	C07D 417/12	(00) 05.07.2023
(71) Promerus LLC	(00) Assignment	(51) B41N 3/00
FlexEnable Ltd.	(71) Bayer CropScience Aktiengesellschaft	(00) Assignment
(73) FLEXENABLE TECHNOLOGY LIMITED	(73) Bayer CropScience Aktiengesellschaft	(71) Suzhou Huazheng Technology Company
Promerus LLC	(11) EP1651039	(73) Suzhou Huazheng Technology Company
(11) EP2676979	(00) 30.06.2023	(11) 2029265
(00) 06.07.2023	(51) A01N 25/02	(00) 05.07.2023
(51) C08F 232/00	A01N 25/04	(51) F16C 29/00
H01L 51/05	A01N 25/30	(00) Assignment
(00) Assignment	A01N 25/32	(71) Bayer CropScience Aktiengesellschaft
(71) Zamqua Holding B.V.	A01N 43/40	(73) Bayer CropScience Aktiengesellschaft
(73) Zamqua Holding B.V.	A01N 43/40	(11) EP2831038
(11) 2026223	A01N 43/42	(00) 30.06.2023
(00) 05.07.2023	A01N 43/56	(51) C07C 231/12
(51) A62B 3/00	A01N 43/80	C07C 233/52
B66F 3/10	A01N 47/36	C07D 209/96
B66F 3/44	A01N 47/38	C07D 263/52
(00) Assignment	A01N 61/00	(00) Assignment
(71) Promerus LLC	(00) Assignment	(71) SRAM, LLC.
FLEXENABLE TECHNOLOGY LIMITED	(71) SRAM Deutschland GmbH	(73) SRAM, LLC.
(73) FLEXENABLE TECHNOLOGY LIMITED	(73) SRAM, LLC.	(11) EP3686102
Promerus LLC	(11) EP3663181	(00) 05.07.2023
(11) EP2676979	(00) 05.07.2023	(51) B62M 6/55
(00) 06.07.2023	(51) B62M 6/45	B62K 19/34
(51) C08F 232/00	(00) Assignment	B62M 3/00
H01L 51/05	(71) SRAM, LLC.	(00) Assignment
(00) Assignment	(73) SRAM, LLC.	(71) Bayer CropScience Aktiengesellschaft
(71) Bayer CropScience Aktiengesellschaft	(11) EP3663181	(73) Bayer CropScience Aktiengesellschaft
(73) Bayer CropScience Aktiengesellschaft	(00) 05.07.2023	(11) EP2921491
(11) EP2663539	(51) B62M 6/45	(00) 30.06.2023
(00) 30.06.2023	(00) Assignment	(51) A01N 43/40
(51) C07C 9/08	(71) Bayer CropScience Aktiengesellschaft	A01N 43/80
C07C 209/08	(73) Bayer CropScience Aktiengesellschaft	C07D 211/62
C07C 211/15	(11) EP2638002	C07D 261/04
(00) Assignment	(00) 30.06.2023	C07D 261/08
(71) Bayer CropScience Aktiengesellschaft	(51) C07C 209/08	C07D 417/14

C07D 419/14	C07D 231/20	(11) EP3671290
(00) Assignment	(00) Assignment	(00) 30.06.2023
(71) Bayer CropScience Aktiengesellschaft	(71) SRAM Deutschland GmbH	(51) G01V 99/00
(73) Bayer CropScience Aktiengesellschaft	(73) SRAM, LLC.	G01V 1/30
(11) EP2729444	(11) EP3503313	(00) Assignment
(00) 30.06.2023	(00) 05.07.2023	(71) Bayer CropScience Aktiengesellschaft
(51) C07C 227/16	(51) H01R 31/06	(73) Bayer CropScience Aktiengesellschaft
C07C 253/14	B62M 6/90	(11) EP3103333
C07C 253/30	(00) Assignment	(00) 30.06.2023
C07C 255/58	(71) Bayer CropScience Aktiengesellschaft	(51) A01N 43/40
(00) Assignment	(73) Bayer CropScience Aktiengesellschaft	A01N 57/32
(71) Bayer CropScience Aktiengesellschaft	(11) EP2755971	A01P 5/00
(73) Bayer CropScience Aktiengesellschaft	(00) 30.06.2023	A01P 7/04
(11) EP2819518	(51) A01N 43/78	(00) Assignment
(00) 30.06.2023	A61K 31/454	(71) Jiangsu Kanion Pharmaceutical Co., Ltd.
(51) A01N 25/00	C07D 417/14	(73) Jiangsu Kanion Pharmaceutical Co., Ltd.
A01N 37/34	(00) Assignment	(11) EP3473617
A01N 37/38	(71) Bayer CropScience Aktiengesellschaft	(00) 30.06.2023
A01N 37/46	(73) Bayer CropScience Aktiengesellschaft	(51) C07D 249/08
A01N 37/50	(11) EP2464233	C07D 249/12
A01N 43/40	(00) 30.06.2023	C07D 249/10
A01N 43/50	(51) A01N 25/04	A61K 31/416
A01N 43/54	A01N 43/707	A61P 9/10
A01N 43/56	A01P 13/00	A61P 19/02
A01N 43/653	(00) Assignment	(00) Assignment
A01N 43/80	(71) SRAM Deutschland GmbH	(71) Bayer CropScience Aktiengesellschaft
A01N 45/02	(73) SRAM, LLC.	(73) Bayer CropScience Aktiengesellschaft
A01N 47/12	(11) EP3782894	(11) EP1802197
A01N 47/14	(00) 05.07.2023	(00) 30.06.2023
A01N 47/24	(51) B62M 6/45	(51) A01N 43/56
A01N 57/12	B62M 6/50	A01N 61/00
A01N 59/02	(00) Assignment	A01P 3/00
A01N 59/20	(71) Bayer CropScience Aktiengesellschaft	(00) Assignment
A01P 3/00	(73) Bayer CropScience Aktiengesellschaft	(71) Bayer CropScience Aktiengesellschaft
A01P 21/00	(11) EP2806740	(73) Bayer CropScience Aktiengesellschaft
(00) Assignment	(00) 30.06.2023	(11) EP2688413
(71) Niterra Co., Ltd.	(51) A01N 43/40	(00) 30.06.2023
(73) Niterra Co., Ltd.	A01N 63/00	(51) A01N 25/00
(11) EP3534193	A01N 63/02	A01N 43/40
(00) 05.07.2023	A01N 63/04	A01N 43/50
(51) G02B 5/20	A01P 3/00	A01P 3/00
C04B 35/50	A01P 5/00	(00) Assignment
C09K 11/80	A01P 7/04	(71) Apurano Pharmaceuticals GmbH
H01L 33/50	A01N 65/00	(73) Apurano Pharmaceuticals GmbH
C09K 11/77	(00) Assignment	(11) EP3883547
C04B 35/01	(71) SRAM, LLC.	(00) 05.07.2023
C04B 35/44	(73) SRAM, LLC.	(51) A61K 9/10
C04B 35/64	(11) EP3771627	A61K 9/51
C04B 35/626	(00) 05.07.2023	A61K 31/352
(00) Change of owner(s) name	(51) B62M 6/90	A61K 36/185
(71) Bayer CropScience Aktiengesellschaft	B62K 19/40	(00) Merge
(73) Bayer CropScience Aktiengesellschaft	H01M 50/20	(71) Bayer CropScience Aktiengesellschaft
(11) EP2921492	B62J 43/13	(73) Bayer CropScience Aktiengesellschaft
(00) 30.06.2023	B62J 43/23	(11) EP2766117
(51) A01N 43/40	(00) Assignment	(00) 30.06.2023
A01N 43/80	(71) SRAM Deutschland GmbH	(51) B01J 21/18
C07D 211/62	(73) SRAM, LLC.	B01J 23/06
C07D 261/04	(11) EP3771627	B01J 23/86
C07D 261/08	(00) 05.07.2023	B01J 27/138
C07D 417/14	(51) B62M 6/90	B01J 37/02
C07D 419/14	B62K 19/40	B01J 37/26
(00) Assignment	H01M 50/20	C07C 17/20
(71) Bayer CropScience Aktiengesellschaft	B62J 43/13	C07C 17/21
(73) Bayer CropScience Aktiengesellschaft	B62J 43/23	(00) Assignment
(11) EP2658841	(00) Assignment	(71) Niterra Co., Ltd.
(00) 30.06.2023	(71) GEOQUEST SYSTEMS B.V.	(73) Niterra Co., Ltd.
(51) C07C 315/04	(73) GEOQUEST SYSTEMS B.V.	(11) EP3816682

(00) 05.07.2023	H01Q 21/20	(11) EP3782895
(51) G02B 5/20	H01Q 1/24	(00) 05.07.2023
C04B 35/115	H01Q 21/00	(51) B62M 6/50
C04B 35/50	(00) Change of owner(s) name	(00) Assignment
C04B 35/80	(71) GW Pharma Limited	(71) SRAM Deutschland GmbH
H01L 33/50	(73) GW Pharma Limited	(73) SRAM, LLC.
F21V 13/08	(11) EP2661263	(11) EP3782895
G02B 5/08	(00) 03.07.2023	(00) 05.07.2023
G02B 7/18	(51) A61K 31/05	(51) B62M 6/50
(00) Change of owner(s) name	A61K 31/19	(00) Assignment
(71) PWNT Holding B.V.	A61K 31/4015	(71) SRAM, LLC.
(73) PWNT Holding B.V.	A61P 25/08	(73) SRAM, LLC.
(11) EP3055045	(00) Assignment	(11) EP3795462
(00) 05.07.2023	(71) SRAM, LLC	(00) 05.07.2023
(51) B01D 29/11	(73) SRAM, LLC	(51) B62K 19/34
B01D 29/52	(11) EP3882121	B62M 6/55
B01D 29/90	(00) 05.07.2023	F16B 5/02
(00) Assignment	(51) B62M 6/90	(00) Assignment
(71) Noria B.V.	B62J 43/13	(71) SRAM Deutschland GmbH
(73) Noria B.V.	B62J 45/414	(73) SRAM, LLC.
(11) 2023558	B60L 50/64	(11) EP3795462
(00) 04.07.2023	(00) Assignment	(00) 05.07.2023
(51) E03F 5/10	(71) SRAM, LLC.	(51) B62K 19/34
(00) Assignment	(73) SRAM, LLC.	B62M 6/55
(71) VOMM IMPIANTI E PROCESSI S.P.A.	(11) EP3628580	F16B 5/02
(73) VOMM IMPIANTI E PROCESSI S.P.A.	(00) 05.07.2023	(00) Assignment
(11) EP3174402	(51) B62M 6/50	(71) Jiangsu Kanion Pharmaceutical Co., Ltd.
(00) 30.06.2023	B62M 6/55	(73) Jiangsu Kanion Pharmaceutical Co., Ltd.
(51) A23C 1/12	B62J 45/411	(11) EP3725781
A23C 9/16	B62J 45/421	(00) 30.06.2023
(00) Assignment	(00) Assignment	(51) C07D 249/08
(71) Zamqua Holding B.V.	(71) Niterra Co., Ltd.	A61K 31/416
(73) Zamqua Holding B.V.	(73) Niterra Co., Ltd.	A61P 9/10
(11) 2027161	(11) EP3534192	(00) Assignment
(00) 05.07.2023	(00) 05.07.2023	
(51) B66F 3/35	(51) G02B 5/20	
(00) Assignment	C04B 35/50	
(71) Erresei S.r.l. Unipersonale	C09K 11/80	
(73) Erresei S.r.l. Unipersonale	H01L 33/50	
(11) EP3819537	C04B 35/117	
(00) 27.06.2023	C04B 35/44	
(51) F21V 21/35	C09K 11/77	
F21V 23/06	(00) Change of owner(s) name	
F21V 23/00	(71) SRAM Deutschland GmbH	
F21S 8/00	(73) SRAM, LLC.	
H01R 25/14	(11) EP3686102	
H01R 13/24	(00) 05.07.2023	
(00) Assignment	(51) B62M 6/55	
(71) GKS PACKAGING BV	B62K 19/34	
(73) GKS PACKAGING BV	B62M 3/00	
(11) EP3371072	(00) Assignment	
(00) 04.07.2023	(71) SRAM, LLC.	
(51) B65D 33/00	(73) SRAM, LLC.	
B65D 33/16	(11) EP3503313	
B65D 75/00	(00) 05.07.2023	
(00) Assignment	(51) H01R 31/06	
(71) Chengdu Institute Of Biology, Chinese Academy Of Sciences	B62M 6/90	
ZHONGKE XINGHE (SHANDONG)	(00) Assignment	
INTELLIGENT TECHNOLOGY CO., LTD.	(71) SRAM, LLC.	
(73) Chengdu Institute Of Biology, Chinese Academy Of Sciences	(73) SRAM, LLC.	
ZHONGKE XINGHE (SHANDONG)	(11) EP3782894	
INTELLIGENT TECHNOLOGY CO., LTD.	(00) 05.07.2023	
(11) EP3965228	(51) B62M 6/45	
(00) 05.07.2023	B62M 6/50	
(51) H01Q 3/30	(00) Assignment	
	(71) SRAM, LLC.	
	(73) SRAM, LLC.	

**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) EP2748545	(11) EP3301662	(11) EP3596935
(11) EP2823212	(11) EP3366167	(11) EP3602223
(11) EP2654612	(11) EP3216824	(11) EP3655339
(11) EP2914621	(11) EP3450940	(11) EP3659228
(11) EP2914622	(11) EP3460447	(11) EP3579837
(11) EP3036531	(11) EP3417796	(11) EP3583464
(11) EP3086848	(11) EP3414123	(11) EP3676749
(11) EP3038743	(11) EP3424200	(11) EP3692051
(11) EP2864423	(11) EP3430806	(11) EP3691779
(11) EP2895303	(11) EP3577499	(11) EP3861287
(11) EP2901102	(11) EP3449210	(11) EP3612024
(11) EP2752421	(11) EP3463274	(11) EP3717118
(11) EP3007868	(11) EP3426254	(11) EP3724075
(11) EP3006570	(11) EP3338710	(11) EP3727298
(11) EP2995363	(11) EP3348762	(11) EP3897885
(11) EP3095734	(11) EP3436446	(11) EP3666132
(11) EP3304522	(11) EP3475939	(11) EP3666729
(11) EP3207200	(11) EP3503926	(11) EP3785075
(11) EP3117225	(11) EP3675686	(11) EP3651821
(11) EP3046853	(11) EP3519058	(11) EP3599957
(11) EP3028269	(11) EP3443246	(11) EP3687502
(11) EP2940504	(11) EP3518724	(11) EP3697589
(11) EP3160661	(11) EP3500400	(11) EP3617071
(11) EP3155178	(11) EP3524241	(11) EP3697586
(11) EP3191581	(11) EP3509969	(11) EP3692057
(11) EP3236803	(11) EP3504817	(11) EP3713708
(11) EP3221744	(11) EP3668457	(11) EP3807646
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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).**