Nummer 04/22 26 januari 2022

Inleiding

Hoofdblad

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

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

Abonnementsprijzen per (kalender)jaar:

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

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ING 0705001296
Iban: NL41INGB070500129
BIC: INGBNL2A

Introduction

Patent Bulletin

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

Official Journal
Appears four times a year (January, April, July, October) in electronic form on the www.rvo.nl/octrooien. 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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ING 0705001296
Iban: NL41INGB070500129
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Inhoudsopgave	Blz.	Content	Page
Rubriek NP1 Bevat gegevens betreffende octrooiaanvragen die zijn ingeschreven op grond van de Octrooiwet 1995.	7	**Heading NP1** Contains data concerning Netherlands patent applications which have been entered in the patent register under the Patents Act 1995.	7
Rubriek NP2 Bevat gegevens betreffende ingeschreven en verleende octrooien op grond van de Octrooiwet 1995.	9	**Heading NP2** Contains data concerning Netherlands patents which have been entered in the patent register under the Patents Act 1995.	9
Rubriek NP3 Bevat gegevens betreffende Nederlandse octrooien na gedeeltelijke afstand conform artikel 63 van de Octrooiwet 1995.	11	**Heading NP3** Contains data concerning Netherlands patents after partial renunciation confirm Article 63 of the Patents Act 1995.	11
Rubriek EP1 Bevat gegevens betreffende vertaalde conclusies van Europese octrooiaanvragen.	12	**Heading EP1** Contains data concerning translations of the conclusions of European patent applications.	12
Rubriek EP2 Bevat gegevens betreffende voor Nederland verleende Europese octrooien.	13	**Heading EP2** Contains data concerning European patents granted for The Netherlands.	13
Rubriek EP3 Bevat gegevens betreffende voor Nederland verleende Europese octrooien waarvoor een vertaling is ingediend conform artikel 52 lid 1 of 6 van de Octrooiwet 1995.	183	**Heading EP3** 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.	183
Rubriek EP4 Bevat gegevens betreffende voor Nederland verleende gewijzgde Europese octrooien.	257	**Heading EP4** Contains data concerning European patents granted in amended form for the Netherlands.	257
Rubriek EP5 Bevat gegevens betreffende voor Nederland verleende gewijzigde	259	**Heading EP5** Contains data concerning European patents granted in amended form for	259

Europese octrooien waarvoor een gewijzigde vertaling is ingediend.

The Netherlands in which an amended translation was filed.

Rubriek SPC 260 **Heading SPC** 260

Bevat gegevens betreffende ingeschreven en verleende certificaten

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

Rubriek VB1 261 **Heading VB1** 261

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

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

Rubriek VB2 263 **Heading VB2** 263

Bevat gegevens betreffende rechten waarin een beslissing is genomen of waarvoor een nieuwheidsrapport is uitgegaan 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.

Rubriek MED 264 **Heading MED** 264

Bevat gegevens betreffende overige mededelingen.

Contains data concerning other communications.

Rubriek VRV 265 **Heading VRV** 265

Bevat gegevens betreffende verval of nietigverklaring.

Contains data concerning lapse or annulment.

Rubriek VRB 288 **Heading VRB** 288

Bevat gegevens betreffende verbeteringen op eerdere publicaties.

Contains data concerning corrections on earlier publications.

Rubriek CO 289 **Heading CO** 289

Bevat gegevens betreffende wijzigingen in het octrooiregister.

Contains data concerning changes in the Netherland patent register.

Rubriek TVH 307 **Heading TVH** 307

Bevat gegevens betreffende topografieën van halfgeleiderproducten.

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

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.

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) Octrooinummer	(11) Patent number
(13) Soort document volgens WIPO standaard 16	(13) Kind of document code according to WIPO standard ST.16
(15) Correctie informatie	(15) Patent correction information
(21) Octrooiaanvraagnummer	(21) Application number
(22) Datum van indiening	(22) Date(s) of filing application(s)
(23) Datum tentoonstelling	(23) Date of exhibition
(25) Taal van indiening	(25) Language in which the published application was originally filed
(26) Taal waarin de aanvraag is gepubliceerd	(26) Language in which the application is published
(30) Voorrangsgegevens	(30) Priority Data
(31) Nummer voorrang	(31) Number(s) assigned to priority application(s)
(32) Datum voorrang	(32) Date(s) of filling of priority application(s)
(33) Land van herkomst voorrang	(33) WIPO Standard ST.3 Code indetifying the national patent office alloting the priority application number or the organization alloting the regional priority application number: for international applications filed under the PCT, the code "WO" is used.
(34) Oorspronkelijk land van indiening	(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) Datum van inschrijving	(40) Date(s) of making available to the public
(41) Datum van inschrijving van een octrooiaanvraag	(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) Datum van inschrijving van een onderzochte aanvraag (openbaarmaking)	(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) Datum waarop de aanvraag ter inzage is gelegd	(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 Octrooiclassificatie	(51) International Patent Classification
(54) Korte aanduiding	(54) Title of the invention
(62) Nummer moeder aanvraag	(62) Number and, if possible, filling 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 know 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) Apllication 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 authorzation to place the product on the market as a medicinal product within a regional
(94) Expiratiedatum voor een topografie	(94) economic community
(95) Certificaten: naam van het product	(95) Calculated date of expiry of the topography Name of the product protected by the basic patent and in respect of which the SPC has been apllied 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) A01C 23/00
(21) 2026333
(22) 25.08.2020
(54) SHARED MOBILE FERTIGATION DEVICE FOR SURFACE IRRIGATION
(71) FARMLAND IRRIGATION RESEARCH INSTITUTE, CAAS
(74) ir. W.J.J.M. Kempes
(72) Fuyi Duan
Jinshan Li
Xiulu Sun
Zhen Chen
Qibiao Han
Yanhui Jia
Hao Sun
(31) 202010555504.5
(32) 17.06.2020
(33) China

(51) A01C 23/00
A01C 23/04
A01M 7/00
(21) 2028077
(22) 27.04.2021
(54) ENERGY-SAVING AND PRECISE INTEGRATED IRRIGATION SYSTEM OF WATER, FERTILIZER AND PESTICIDE, AND CONTROL METHOD THEREOF
(71) Guangxi Chunzhilan Agricultural Technology Co., Ltd.
(74) dr. J. van Straaten
(72) Lu Lan
Wukang Lv
Jiansheng Zhang
Xiushuai Tang
Binxi Ma
Shengnan Zhao
(31) 202010559170.9
(32) 18.06.2020
(33) China

(51) A47J 31/44
A47J 31/60
(21) 2025751
(22) 04.06.2020
(54) A coffee or milk machine and a method of operating such a machine
(71) Bravilor Bonamat B.V.
(74) mr. ir. J. van Breda c.s.
(72) Mathias Anthonius Franciscus Rutten
Antonius Johannes Spijker
(41) 26.01.2022

(51) A61F 2/16
(21) 2025750
(22) 04.06.2020
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(71) AKKOLENS INTERNATIONAL B.V.
(74) ir. H.Th. van den Heuvel c.s.
(72) Nadja Kamentschuk
Michiel Christiaan Rombach
Willem Pieter van Lawick
(41) 26.01.2022

(51) A61H 3/04
(21) 1043674
(22) 02.06.2020
(54) COMPACT-COLLAPSIBLE WHEELED WALKING AID
(71) Cornelis Theodorus Douma
Everhard Floris Vissers
(72) Everhard Floris Vissers
Cornelis Theodorus Douma
(41) 20.01.2022

(51) A61K 31/16
A61K 31/165
A61K 31/353
A61K 31/453
A61K 31/496
A61K 45/06
A61P 31/00
(21) 2025730
(22) 02.06.2020
(54) COMPOUNDS FOR TREATMENT OF SEPSIS
(71) Sulfateq B.V.
Rijksuniversiteit Groningen
(74) drs. W.H.P. Derks
(72) Robert Henk Henning
Hjalmar Roland Bouma
Guido Krenning
Adrianus Cornelis van der Graaf
(41) 20.01.2022

(51) B63H 21/17
H01M 10/44
(21) 2025728
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(54) Method for providing energy to a seagoing vessel, shipping infrastructure, and relay system
(71) Baggermaatschappij Boskalis B.V.
(74) ir. F.A. Geurts c.s.
(72) Tim van Keulen
(41) 20.01.2022

(51) B65G 69/28
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(22) 04.06.2020
(54) Laad- en losplatform
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(74) mr. M.J.I. Koomen c.s.
(72) Cornelis Gerardus Levering
Bastiaan Johan Dinand Geerligs
Franciscus Johannes Stroet
(41) 26.01.2022

(51) C07D 311/30
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(21) 2029678
(22) 08.11.2021
(54) METHOD FOR PURIFYING MYRICETIN FROM MYRICA RUBRA LEAF
(71) ZHEJIANG UNIVERSITY
ZHEJIANG UNIVERSITY ZHONGYUAN INSTITUTE
(74) ir. M.B. Plaggenborg
(72) Haibo Pan
Ziqi Qian
Yi Wang
Huan Cheng
Shiguo Chen
Xinlei Xu
Xingqian Ye
Jianle Chen

(51) E03C 1/044
(21) 2025742
(22) 03.06.2020
(54) Waterafgifte-inrichting
(71) Quooker International B.V.
(74) ir. J.C. Volmer c.s.
(72) Niels Theodoor Peteri
(41) 26.01.2022

(51) E03C 1/044
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(21) 2025741
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(72) Niels Theodoor Peteri
(41) 26.01.2022

(51) E05B 13/00
E05B 47/00
E05B 47/06
(21) 2025736
(22) 03.06.2020
(54) Deurkruksamenstel
(71) M & C Protect B.V.
(74) ir. H.A. Witmans c.s.
(72) Cornelis Jacobus Johannes Marinus Overbeeke
(41) 26.01.2022

(51) F21S 8/08
(21) 2025720
(22) 02.06.2020
(54) LUMINAIRE DESIGN RETROFITTING METHOD AND COMPUTER-CONTROLLED METHOD THEREOF
(71) SCHREDER S.A.
(74) dr. ir. G.J.C. Verdijck c.s.
(72) Philippe Frankinet
(41) 26.01.2022

(51) G01N 27/74
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G01R 33/00
G01R 33/12
G01R 33/16
(21) 2025726
(22) 02.06.2020
(54) Method and apparatus for detecting superparamagnetic material
(71) Universiteit Twente
(74) ir. M.F.J.M. Ketelaars c.s.
(72) Hendrikus Johannes Gradus Krooshoop
Melissa Mathilde van de Loosdrecht
Bernard ten Haken
Lejla Alic
(41) 26.01.2022

(51) G02B 26/00
(21) 2025729
(22) 02.06.2020
(54) electrowetting display
(71) Miortech Holding B.V.
(74) ir. A. Blokland c.s.
(72) Doeke Jolt Oostra
Johannes Marra
Rajan van Aar
Hermanus Feil
Pieter Johan van der Valk
(41) 20.01.2022

(51) G06F 3/044
G06F 3/041
(21) 2025725
(22) 02.06.2020
(54) DETERMINING A DISTANCE TO AN INPUT DEVICE
(71) Microsoft Technology Licensing, LLC
(74) ir. J.C. Volmer c.s.
(72) Jonathan Westhues
Igor Grebnev
(41) 26.01.2022

(51) H01L 23/047
H01L 23/10
H01L 23/20
H01L 23/36
H01L 23/544
H01L 23/66
(21) 2025749
(22) 04.06.2020
(54) Molded air-cavity package and device comprising the same
(71) Ampleon Netherlands B.V.
(74) dr. ir. G.J.C. Verdijck c.s.
(72) Leonardus Theodorus Maria Raben
Jan Joseph Briones Miranda
Franciscus Gerardus Maria Meeuwsen
(41) 26.01.2022

(51) H02K 5/12
H02K 5/22
H02K 9/08
(21) 2025727
(22) 02.06.2020
(54) Elektromotor met koeling
(71) BRONSWERK/RADIAX TECHNOLOGY ® B.V.
(74) ir. H.Th. van den Heuvel c.s.
(72) Augustinus Wilhelmus Maria Bertels
(41) 20.01.2022

(51) H03L 7/093
(21) 1043676
(22) 04.06.2020
(54) ABOVE SUPPLY PLL-CHARGE PUMP
(71) Zelectronix Holding BV
(72) dr.ir. Paulus Thomas Maria van Zeijl
(41) 26.01.2022

(51) H04L 29/08
(21) 2025735
(22) 03.06.2020
(54) METHOD AND DEVICE FOR MAINTAINING PUBLIC CHAIN OF BLOCKCHAIN, NODE OF PUBLIC CHAIN OF BLOCKCHAIN, AND PUBLIC CHAIN OF BLOCKCHAIN
(71) AOWEI information technology (Jiangsu) Co., Ltd.
(74) ir. A. Blokland c.s.
(72) Xianfeng Wu
Jie Bai
Dongyun Li
(41) 26.01.2022

(51) H04R 3/04
(21) 2025740
(22) 03.06.2020
(54) INCREASING LOW FREQUENCY EXTENSION FOR MICROSPEAKERS USING A VOLUME DEPENDENT LINKWITZ TRANSFORM AND MULTIBAND COMPRESSOR
(71) Microsoft Technology Licensing, LLC
(74) ir. J.C. Volmer c.s.
(72) Kevin Venalainen
Christopher Borowski
Eric Middleton
(41) 26.01.2022

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) A47J 31/44
A47J 31/60
(11) 2025751
(47) 26.01.2022
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A61K 31/353
A61K 31/453
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A61K 45/06
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Guido Krenning
Adrianus Cornelis van der Graaf
(74) drs. W.H.P. Derks

(51) A62B 3/00
B60R 22/18
(11) 2023749
(47) 20.01.2022
(22) 03.09.2019
(54) Glass breaking device
(62) 2020649
(73) Lifehammer Innovations B.V.
(72) Mike Franke
Jaap Patrick Bark
(74) ir. J.C. Volmer c.s.

(51) B29C 70/08
B32B 1/02
B32B 27/04
B60K 15/03
(11) 2004926
(47) 20.01.2022
(22) 21.06.2010
(54) WERKWIJZE VOOR HET VERVAARDIGEN VAN EEN BRANDSTOFTANK
(73) Benteler Defense GmbH & Co.KG
(72) Ulrich Borchert
Jens Skowronek
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 102009030221
(32) 23.06.2009
(33) Germany

(51) B63H 21/17
H01M 10/44
(11) 2025728
(47) 20.01.2022
(22) 02.06.2020
(54) Method for providing energy to a seagoing vessel, shipping infrastructure, and relay system
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(72) Niels Theodoor Peteri
(74) ir. J.C. Volmer c.s.

(51) E04B 1/41
(11) 1043575
(47) 20.01.2022
(22) 26.02.2020
(54) FIXTURES FOR BUILDING ELEMENTS
(73) Willem Neeleman
Tardis Innovations BV
(72) Willem Neeleman
(31) 1043388
(32) 24.09.2019
(33) Netherlands

(51) E05B 13/00
E05B 47/00
E05B 47/06
(11) 2025736
(47) 26.01.2022
(22) 03.06.2020
(54) Deurkruksamenstel
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(74) ir. H.A. Witmans c.s.

(51) F15B 19/00
(11) 2025654
(47) 20.01.2022
(22) 22.05.2020
(54) HYDRAULIC CYLINDER TEST BED MEASUREMENT AND CONTROL SYSTEM
(73) QILU UNIVERSITY OF TECHNOLOGY
(72) Junmei Guo
(74) dr. J. van Straaten
(31) 201910466068.1
(32) 30.05.2019
(33) China

(51) F21S 8/08
(11) 2025720
(47) 26.01.2022
(22) 02.06.2020
(54) LUMINAIRE DESIGN RETROFITTING METHOD AND COMPUTER-CONTROLLED METHOD THEREOF
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(74) dr. ir. G.J.C. Verdijck c.s.

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(51) G02B 26/00

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(54) electrowetting display
(73) Miortech Holding B.V.
(72) Doeke Jolt Oostra
Johannes Marra
Rajan van Aar
Hermanus Feil
Pieter Johan van der Valk
(74) ir. A. Blokland c.s.

(51) G06F 3/044
G06F 3/041
(11) 2025725
(47) 26.01.2022
(22) 02.06.2020
(54) DETERMINING A DISTANCE TO AN INPUT DEVICE
(73) Microsoft Technology Licensing, LLC
(72) Jonathan Westhues
Igor Grebnev
(74) ir. J.C. Volmer c.s.

(51) H01L 23/047
H01L 23/10
H01L 23/20
H01L 23/36
H01L 23/544
H01L 23/66
(11) 2025749
(47) 26.01.2022
(22) 04.06.2020
(54) Molded air-cavity package and device comprising the same
(73) Ampleon Netherlands B.V.
(72) Leonardus Theodorus Maria Raben
Jan Joseph Briones Miranda
Franciscus Gerardus Maria Meeuwsen
(74) dr. ir. G.J.C. Verdijck c.s.

(51) H02K 5/12
H02K 5/22
H02K 9/08
(11) 2025727
(47) 20.01.2022
(22) 02.06.2020
(54) Elektromotor met koeling
(73) BRONSWERK/RADIAX TECHNOLOGY ® B.V.
(72) Augustinus Wilhelmus Maria Bertels
(74) ir. H.Th. van den Heuvel c.s.

(51) H03L 7/093
(11) 1043676
(47) 26.01.2022
(22) 04.06.2020
(54) ABOVE SUPPLY PLL-CHARGE PUMP
(73) Zelectronix Holding BV
(72) dr.ir. Paulus Thomas Maria van Zeijl

(51) H04L 29/08
(11) 2025735
(47) 26.01.2022
(22) 03.06.2020
(54) METHOD AND DEVICE FOR MAINTAINING PUBLIC CHAIN OF BLOCKCHAIN, NODE OF PUBLIC CHAIN OF BLOCKCHAIN, AND PUBLIC CHAIN OF BLOCKCHAIN
(73) AOWEI information technology (Jiangsu) Co., Ltd.
(72) Xianfeng Wu
Jie Bai
Dongyun Li
(74) ir. A. Blokland c.s.

(51) H04R 3/04
(11) 2025740
(47) 26.01.2022
(22) 03.06.2020
(54) INCREASING LOW FREQUENCY EXTENSION FOR MICROSPEAKERS USING A VOLUME DEPENDENT LINKWITZ TRANSFORM AND MULTIBAND COMPRESSOR
(73) Microsoft Technology Licensing, LLC
(72) Kevin Venalainen
Christopher Borowski
Eric Middleton
(74) ir. J.C. Volmer c.s.

(51) H05H 1/24
C02F 1/46
(11) 2024421
(47) 20.01.2022
(22) 11.12.2019
(54) Plasma Generator
(73) Ananda Shakti Technologies Ltd
(72) Oleg Kulakovskii
Vladimir Leonov
Valeria Tyutina
Haslen Matthew Back
Sergei Altunin
(74) ir. H.A. Witmans c.s.
(31) 1917736.9
(32) 04.12.2019
(33) United Kingdom

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.

(43) 04.11.2020
(11) EP3731647
(51) A23G 3/22
A23G 3/34
A23P 20/18
A23P 20/12
(71) Marel Further Processing B.V.

EP2

Voor Nederland verleende Europese octrooien.
Contains data concerning European patents granted for The Netherlands.

(51) A01B 69/00
(11) EP3417686
(21) EP18163839.6
(47) 26.01.2022
(22) 26.03.2018
(54) AGRICULTURAL MACHINE
(73) CLAAS E-Systems GmbH
(72) Lisouski, Pavel
Blas, Morten Rufus
Laysgaard Andersen, Gert
Jensen, Martin Falk
(31) 102017113726
(32) 21.06.2017
(33) Germany

(51) A01B 69/04
A01D 34/00
G05D 1/02
G06K 9/00
A01B 79/00
(11) EP3629693
(21) EP18730872.1
(47) 26.01.2022
(87) IB2018053811
06.12.2018
(22) 29.05.2018
(54) METHOD FOR CONTROLLING A SOIL WORKING MEANS BASED ON IMAGE PROCESSING AND RELATED SYSTEM
(73) Volta Robots S.r.l.
(72) REVELLI, Silvio
(31) 201700058505
(32) 30.05.2017
(33) Italy

(51) A01C 5/06
A01C 7/06
(11) EP3057401
(21) EP14805779.7
(47) 26.01.2022
(87) DE2014100369
23.04.2015
(22) 15.10.2014
(54) SOWING MACHINE WITH MULTIFUNCTIONAL ROLLER
(73) Lemken GmbH & Co. KG
(72) GERAATS, Marcel
BERENDSEN, Mark
BERGERFURTH, Dennis
PAESSENS, Christian
WERRIES, Dieter
LUKAS, Thomas
GEBBEKEN, Martin
GOTZEN, Christian
(31) 102013111357
(32) 15.10.2013
(33) Germany

(51) A01C 7/08
A01C 7/10
B65G 53/56
(11) EP3583831
(21) EP19180348.5
(47) 26.01.2022
(22) 14.06.2019
(54) COMMODITY DELIVERY SYSTEM FOR WORK VEHICLE WITH ROTARY MANIFOLD REGULATOR
(73) Deere & Company
(72) HARMON, Andrew W.
(31) 201816013679
(32) 20.06.2018
(33) United States of America

(51) A01D 34/00
(11) EP3237986
(21) EP15801417.5
(47) 26.01.2022
(87) EP2015077851
30.06.2016
(22) 26.11.2015
(54) CONTROL OF DOWNHILL MOVEMENT FOR AN AUTONOMOUS GUIDED VEHICLE
(73) Husqvarna AB
(72) WILLGERT, Mikael
KAMFORS, Mattias
(31) 1451647
(32) 23.12.2014
(33) Sweden

(51) A01D 34/10
B62D 17/00
B62D 51/06
(11) EP3172958
(21) EP16200254.7
(47) 26.01.2022
(22) 23.11.2016
(54) VEHICLE COMPRISING A CONNECTION DEVICE FOR ATTACHMENTS
(73) Stöckl, Friedrich
(72) Stöckl, Lukas
(31) 509942015
(32) 23.11.2015
(33) Austria

(51) A01D 41/12
A01D 41/127
(11) EP3592130
(21) EP18711866.6
(47) 26.01.2022
(87) EP2018055880
13.09.2018
(22) 09.03.2018
(54) AGRICULTURAL HARVESTER
(73) CNH Industrial Belgium NV
(72) MAHIEU, Thomas
MISSOTTEN, Bart M. A.
LENAERTS, Bart
BLANQUART, Jean-Edouard
(31) 201705147
(32) 09.03.2017
(33) Belgium

(51) A01D 46/28
A01D 46/26
(11) EP3488682
(21) EP18206962.5
(47) 26.01.2022
(22) 19.11.2018
(54) IMPROVED SHAKER ELEMENT MOUNT, AND SHAKER FOR HARVESTING COMPRISING SUCH
(73) Gregoire
(72) PELLETIER, Etienne
(31) 1761046
(32) 22.11.2017
(33) France

(51) A01D 57/20
A01D 41/14
A01D 61/00
B65G 15/42
(11) EP3414987
(21) EP18176566.0
(47) 26.01.2022
(22) 07.06.2018
(54) GRAIN SAVING AGRICULTURAL HARVESTING HEAD
(73) Deere & Company
(72) Hoffman, Daniel S.
Washburn, Anthony
Hasenour, Anthony M.
(31) 201815936590
201762518557 P
(32) 27.03.2018
12.06.2017
(33) United States of America
United States of America

(51) A01D 61/04
A01D 41/127
(11) EP3753391
(21) EP20161719.8
(47) 26.01.2022
(22) 09.03.2020
(54) MATERIAL FEED HEIGHT ROLLER IN FEED CHANNEL WITH RUBBER BEARING MOUNTING
(73) CLAAS Selbstfahrende Erntemaschinen GmbH
(72) Burbank, Martin
Baumgarten, Joachim
(31) 102019116452
(32) 18.06.2019
(33) Germany

(51) A01G 9/14
A01G 9/22
B32B 27/08
B32B 27/16
B32B 27/18
B32B 27/36
B32B 7/02
A01G 13/02
(11) EP3681268
(21) EP18769677.8
(47) 26.01.2022
(87) EP2018074773
21.03.2019
(22) 13.09.2018
(54) GREENHOUSE SCREEN

(73) AB Ludvig Svensson
(72) HOLGERSON, Per
ASPLUND, Daniel
(31) 1751124
(32) 14.09.2017
(33) Sweden

(51) A01G 17/02
(11) EP3654758
(21) EP17768821.5
(47) 26.01.2022
(87) EP2017074214
24.01.2019
(22) 25.09.2017
(54) PNEUMATIC LEAF-STRIPPING SYSTEM AND AGRICULTURAL MACHINE EQUIPPED WITH SUCH A SYSTEM
(73) Etablissements Collard
(72) COLLARD, Yannick
COLLARD, Corinne
(31) 1756961
(32) 21.07.2017
(33) France

(51) A01G 18/20
A01G 18/69
(11) EP3106025
(21) EP16180989.2
(47) 26.01.2022
(22) 04.02.2013
(54) METHOD OF INDOOR MUSHROOM CULTIVATION
(73) Netafim Ltd.
(72) Danay, Ofer
Levanon, Dan
Raz, Dov
(31) 201261612698 P
(32) 19.03.2012
(33) United States of America

(51) A01G 23/08
B27L 7/00
A01D 43/08
B26D 7/01
A01G 23/091
B27L 11/00
(11) EP3534688
(21) EP17867716.7
(47) 26.01.2022
(87) FI2017050754
11.05.2018
(22) 01.11.2017
(54) CUTTING DEVICE
(73) KX-Treeshears Oy
(72) TOSSAVAINEN, Kimmo
(31) 20165822
(32) 01.11.2016
(33) Finland

(51) A01G 23/08
E02F 3/96
E02F 9/22
F15B 1/033
(11) EP3706552
(21) EP18827141.5
(47) 26.01.2022
(87) FI2018050813
09.05.2019
(22) 06.11.2018
(54) HYDRAULIC SYSTEM FOR A MULTI-PROCESS MACHINE AND A MULTI-PROCESS MACHINE USING IT
(73) Ketonen, Lauri
(72) Ketonen, Lauri
(31) 20175989
(32) 06.11.2017
(33) Finland

(51) A01K 5/01
(11) EP2966998
(21) EP14717660.6
(47) 26.01.2022
(87) DE2014000092
18.09.2014
(22) 06.03.2014
(54) WALL FOR A HORSE'S BOX WITH HORSE FEEDER, AND METHOD FOR FEEDING A HORSE
(73) Haupt, Anja
(72) Haupt, Anja
(31) 102013005357
102013004355
(32) 28.03.2013
14.03.2013
(33) Germany
Germany

(51) A01K 23/00
A01K 1/015
A01K 1/01
(11) EP3677116
(21) EP17931658.3
(47) 26.01.2022
(87) JP2017041661
16.05.2019
(22) 20.11.2017
(54) ANIMAL LITTER BOX
(73) Unicharm Corporation
(72) KOIDO, Yuki
KANEKO, Shinya
TAKAI, Chiyo
(31) 2017217081
(32) 10.11.2017
(33) Japan

(51) A01K 63/04
C02F 1/74
B01D 19/00
B01F 3/04
C02F 1/20
(11) EP3342284
(21) EP17209264.5
(47) 26.01.2022
(22) 21.12.2017
(54) AERATOR AND CARBON DIOXIDE SEPARATOR
(73) NP Innovation AB
(72) PERSSON, Nils-Åke
(31) 1651751
(32) 29.12.2016
(33) Sweden

(51) A01K 67/027
C07K 16/00
C12N 9/64
(11) EP3785536
(21) EP19194093.1
(47) 26.01.2022
(22) 28.08.2019
(54) ADAM6 KNOCKIN MICE
(73) Trianni, Inc.
(72) ESPOSITO, Gloria
MUELLER, Werner
WABL, Matthias

(51) A01K 67/027
C12N 15/13
C12N 15/85
C12N 5/0781
C07K 16/00
(11) EP3269235
(21) EP17185948.1
(47) 26.01.2022
(22) 27.11.2002
(54) TRANSGENIC MICE BEARING HUMAN IG LAMBDA LIGHT CHAIN GENES
(73) Amgen Fremont Inc.
(72) GREEN, Larry L.
IVANOV, Vladimir
(31) 334508 P
(32) 30.11.2001
(33) United States of America

(51) A01K 73/06
A01K 79/00
A01K 91/18
A22C 25/08
B63B 35/18
B63B 35/14
B63B 35/16
(11) EP3629721
(21) EP18809968.3
(47) 26.01.2022
(87) NO2018050144
06.12.2018
(22) 31.05.2018
(54) METHOD AND SYSTEM FOR HANDLING A CATCH OF FISH IN A FISHING VESSEL
(73) Larsen, Asbjørn Ingemar
(72) Larsen, Asbjørn Ingemar
(31) 20170906
(32) 01.06.2017
(33) Norway

(51) A01N 25/10
A01N 25/22
A01N 55/02
A01N 59/16
A01P 1/00
(11) EP3355696
(21) EP16777879.4
(47) 26.01.2022
(87) US2016053692
06.04.2017
(22) 26.09.2016
(54) METHOD OF PREPARING AN ANTIMICROBIAL COMPOSITION
(73) Rohm and Haas Company
Nutrition & Biosciences USA 1, LLC
(72) RUSSELL, Brandon
MITCHELL, Nicholas P.
VARGO, Kevin B.
(31) 201562234858 P
(32) 30.09.2015
(33) United States of America

(51) A01N 43/50
A01N 43/90
A01N 53/00
A01P 13/00
C07D 401/04
(11) EP3054773

(21) EP14780489.2
(47) 26.01.2022
(87) EP2014071167
16.04.2015
(22) 02.10.2014
(54) HERBICIDAL COMPOUNDS
(73) Syngenta Limited
Syngenta Participations AG
(72) LONGSTAFF, Adrian
SONAWANE, Ravindra
RUSSELL, Claire Janet
HENNESSY, Alan Joseph
DESSON, Timothy Robert
MORRIS, James Alan
BOEHMER, Jutta Elisabeth
HOTSON, Matthew Brian
PHADTE, Mangala
RUSSELL, Sally Elizabeth
GOODWIN-TINDALL, Jake
LING, Kenneth
(31) 2977DE2013
(32) 07.10.2013
(33) India

(51) A21C 7/01
(11) EP3522727
(21) EP17857938.9
(47) 26.01.2022
(87) IB2017056101
12.04.2018
(22) 04.10.2017
(54) ROUNDING BAR, DEVICE AND METHOD OF USING SAME
(73) FME Food Machinery Engineering Ltd.
(72) SCHMIDT, Norman
BARAN, Adam
(31) 201662403839 P
(32) 04.10.2016
(33) United States of America

(51) A22B 5/00
(11) EP3203850
(21) EP15784589.2
(47) 26.01.2022
(87) EP2015073450
14.04.2016
(22) 09.10.2015
(54) CHILLING MEAT CARCASSES
(73) Devrone Unlimited Company
(72) MCDONNELL, Declan Arthur
(31) 20140252
(32) 09.10.2014
(33) Ireland

(51) A23F 5/24
A47J 31/18
A47J 31/06
(11) EP3244747
(21) EP16737684.7
(47) 26.01.2022
(87) US2016012910
21.07.2016
(22) 11.01.2016
(54) COFFEE MAKER WITH FEATURES FOR RAPID AND/OR MULTIPLE EXTRACTION PROCESSES, AND ASSOCIATED SYSTEMS AND METHODS
(73) Voga Coffee, Inc.
(72) DAGUE, Randy, C.
EUGENE, Joseph
LOFTNESS, Paul, Evan
AVINS, Joshua, Lewis
SALOMON, Eli
(31) 201562267185 P
201562171190 P
201514594970
(32) 14.12.2015
04.06.2015
12.01.2015
(33) United States of America
United States of America
United States of America

(51) A23G 3/22
A23G 3/34
A23P 20/18
A23P 20/12
(11) EP3731647
(21) EP18840085.7
(47) 26.01.2022
(87) NL2018050862
04.07.2019
(22) 20.12.2018
(54) APPARATUS FOR COATING A FOOD PRODUCT WITH A BATTER
(73) Marel Further Processing B.V.
(72) DEKKER, Thomas Willem
ABEN, Eric Henricus Johannus Carolus
VAN ZOELEN, Martinus Johannes Willebrordus
MEULENDIJKS, Johannes Martinus
(31) 2020183
(32) 27.12.2017
(33) Netherlands

(51) A23J 1/00
A23J 1/04
B63H 21/38
(11) EP3706582
(21) EP18800564.9
(47) 26.01.2022
(87) EP2018080136
09.05.2019
(22) 05.11.2018
(54) FISHING SHIP WITH A SILAGE FACILITY AND ASSOCIATED METHOD
(73) PG Flow Solutions AS
(72) HAUGAN, Erland
EIDE, Anders
(31) 20171755
(32) 06.11.2017
(33) Norway

(51) A23K 10/40
A23K 50/00
(11) EP2983495
(21) EP13731012.4
(47) 26.01.2022
(87) US2013045189
18.09.2014
(22) 11.06.2013
(54) FEEDING METHODS AND SYSTEMS FOR YOUNG LIVESTOCK ANIMALS USING SENSORY COMPOUNDS
(73) Purina Animal Nutrition LLC
(72) MILLER, Bill, L.
(31) 201313837693
(32) 15.03.2013
(33) United States of America

(51) A23L 2/60
(11) EP3261455
(21) EP16708198.3
(47) 26.01.2022
(87) GB2016050422
01.09.2016
(22) 19.02.2016
(54) ALLULOSE SYRUPS
(73) Tate & Lyle Ingredients Americas LLC
Tate & Lyle Technology Limited
(72) WOODYER, Ryan D.
LLOYD-JONES, Peter
(31) 201562168337 P
201562120165 P
(32) 29.05.2015
24.02.2015
(33) United States of America
United States of America

(51) A23L 3/3454
A23L 3/3472
A23B 7/153
A61L 2/18
C11D 3/48
C11D 1/02
C11D 1/12
C11D 3/04
C11D 3/20
C11D 1/00
C11D 3/00
(11) EP2571383
(21) EP11783159.4
(47) 26.01.2022
(87) IB2011052223
24.11.2011
(22) 20.05.2011
(54) RHEOLOGY MODIFIED LOW FOAMING LIQUID ANTIMICROBIAL COMPOSITIONS AND METHODS OF USE THEREOF
(73) Ecolab USA Inc.
(72) MCSHERRY, David, D.
LI, Junzhong
STAUB, Richard, K.
LANGE, Steven, E.
(31) 346804 P
(32) 20.05.2010
(33) United States of America

(51) A23L 7/109
A23P 20/10
A23P 30/10
(11) EP3606358
(21) EP18795041.5
(47) 26.01.2022
(87) US2018030611
08.11.2018
(22) 02.05.2018
(54) PROCESS OF PREPARING A MOLDED 3-DIMENSIONAL SELF-CONTAINED SINGLE SERVING PASTA FOOD PRODUCT
(73) Fiorentino, Luigi
(72) Fiorentino, Luigi
(31) 201762593028 P
201762500538 P
201762500525 P
201762500523 P
(32) 30.11.2017
03.05.2017
03.05.2017
03.05.2017

(33) United States of America
United States of America
United States of America
United States of America

(51) A23L 17/30
(11) EP3245883
(21) EP16170118.0
(47) 26.01.2022
(22) 18.05.2016
(54) DEVICE FOR ARTIFICIAL GRANULAR CAVIAR PRODUCTION
(73) Harutyunyan, Hasmik
(72) Harutyunyan, Hasmik
Khachatryan, Tigran

(51) A23L 25/00
A23D 7/005
(11) EP3727005
(21) EP18819162.1
(47) 26.01.2022
(87) EP2018085934
27.06.2019
(22) 19.12.2018
(54) EDIBLE WATER-CONTINUOUS COMPOSITION
(73) Upfield Europe B.V.
(72) NIJSSE, Jaap
AHMADIABHARI, Salomeh
NIEMAN, Gert
(31) 17208397
(32) 19.12.2017
(33) European Patent Office (EPO)

(51) A24C 5/40
(11) EP3727046
(21) EP18812031.5
(47) 26.01.2022
(87) AT2018060273
31.05.2019
(22) 20.11.2018
(54) DEVICE FOR FILLING PAPER TUBES WITH TOBACCO
(73) Roth, Bernhard
(72) Roth, Bernhard
(31) 4612017
(32) 23.11.2017
(33) Austria

(51) A24D 3/02
A24D 3/04
A24D 1/20
A24C 5/01
(11) EP3716794
(21) EP18814530.4
(47) 26.01.2022
(87) EP2018082873
06.06.2019
(22) 28.11.2018
(54) AEROSOL GENERATING ARTICLE WITH IMPROVED MOUTH END CAVITY
(73) Philip Morris Products S.A.
(72) NAPPI, Leonardo
JORDIL, Yves
(31) 17204218
(32) 28.11.2017
(33) European Patent Office (EPO)

(51) A24D 3/02
A24D 3/04
A24D 1/20
A24C 5/01
(11) EP3716795
(21) EP18815561.8
(47) 26.01.2022
(87) EP2018082885
06.06.2019
(22) 28.11.2018
(54) AEROSOL GENERATING ARTICLE HAVING IMPROVED MOUTH END CAVITY
(73) Philip Morris Products S.A.
(72) NAPPI, Leonardo
(31) 17204219
(32) 28.11.2017
(33) European Patent Office (EPO)

(51) A24F 1/30
(11) EP3468396
(21) EP16905365.9
(47) 26.01.2022
(87) IB2016000799
21.12.2017
(22) 13.06.2016
(54) SHISHA MOLASSES CAPSULES
(73) Sidani, Tarek
(72) Sidani, Tarek

(51) A24F 40/40
(11) EP3669681
(21) EP19173680.0
(47) 26.01.2022
(22) 10.05.2019
(54) ELECTRONIC CIGARETTE
(73) Liu, Tuanfang
(72) Liu, Tuanfang
(31) 201822146642 U
201811564134
(32) 20.12.2018
20.12.2018
(33) China
China

(51) A24F 47/00
A61M 15/06
H05B 6/80
(11) EP3747289
(21) EP19178687.0
(47) 26.01.2022
(22) 06.06.2019
(54) MICROWAVE HEATING UNIT AND METHOD
(73) NVX Labs GmbH
(72) TORREÑO NÚÑEZ, Alberto
DUMLER, Ralf
KÜHN, Silvio

(51) A24F 47/00
H02J 7/00
H02J 7/10
A24F 40/85
A24F 40/95
(11) EP3361600
(21) EP18164669.6
(47) 26.01.2022
(22) 15.08.2014
(54) METHOD, SYSTEM AND DEVICE FOR SWITCHLESS DETECTION AND CHARGING
(73) Fontem Holdings 4 B.V.
(72) Kepner, Christopher
Blau, David
Alarcon, Ramon
(31) 201361866360 P
(32) 15.08.2013
(33) United States of America

(51) A41D 1/06
(11) EP3174413
(21) EP15827581.8
(47) 26.01.2022
(87) US2015042836
04.02.2016
(22) 30.07.2015
(54) PANTS CONFIGURED FOR ENHANCING WORKER MOBILITY
(73) VF Imagewear, Inc.
(72) AKRAM, Ismail
GIBSON, Paul
ROSE, Ben
GRIFFIN, David
NORTH, Shannon
(31) 201462031015 P
(32) 30.07.2014
(33) United States of America

(51) A41D 13/00
A41D 13/005
A41D 31/14
(11) EP3398465
(21) EP17191682.8
(47) 26.01.2022
(22) 22.01.2014
(54) VENTILATED AND PROTECTIVE ARTICLES OF APPAREL
(73) NIKE Innovate C.V.
(72) Turner, David
(31) 201313747974
(32) 23.01.2013
(33) United States of America

(51) A42B 3/08
A42C 2/00
(11) EP3217827
(21) EP15859801.1
(47) 26.01.2022
(87) US2015060537
19.05.2016
(22) 13.11.2015
(54) HELMET STRAP ATTACHMENT METHOD AND DEVICE
(73) Bell Sports, Inc.
(72) JACOBSEN, Gregg T.
(31) 201462079465 P
(32) 13.11.2014
(33) United States of America

(51) A44B 11/00
A44B 11/25
A44B 99/00
A44C 5/18
A45F 3/14
B65D 63/10
(11) EP3515226
(21) EP17851805.6
(47) 26.01.2022
(87) US2017052325
22.03.2018
(22) 19.09.2017
(54) TENSION RELEASE FASTENER
(73) Duraflex Hong Kong Limited
(72) BAKER, Scott George
(31) 201762460607 P
201662396230 P
(32) 17.02.2017
19.09.2016

(33) United States of America
United States of America

(51) A44B 11/04
A61F 9/02
(11) EP3764833
(21) EP19704743.4
(47) 26.01.2022
(87) EP2019052268
19.09.2019
(22) 30.01.2019
(54) WEBBING STRAP DEVICE OF ADJUSTABLE LENGTH AND FUNCTIONAL DEVICE HAVING A WEBBING STRAP DEVICE
(73) Uvex Arbeitsschutz GmbH
(72) FRIEDLEIN, Uwe
SCHEMM, Daniel
NEUBAUER, Bernd
(31) 102018204007
(32) 15.03.2018
(33) Germany

(51) A45D 20/12
A45D 20/14
A45D 2/00
A45D 19/04
(11) EP3226715
(21) EP15866044.9
(47) 26.01.2022
(87) US2015063546
09.06.2016
(22) 02.12.2015
(54) VACUUM ASSISTED SYSTEMS AND METHODS FOR GROOMING HAIR
(73) Cooper, Foster
RevAir, LLC
Isaacson, Debra
Thomason, Scott
(72) THOMASON, Scott
COOPER, Foster
ISAACSON, Debra
(31) 201462123912 P
(32) 02.12.2014
(33) United States of America

(51) A45D 40/18
A45D 40/26
(11) EP3727082
(21) EP18829362.5
(47) 26.01.2022
(87) EP2018085919
27.06.2019
(22) 19.12.2018
(54) COSMETIC RECEPTACLE SYSTEM FOR PRODUCING COSMETIC RECEPTACLES WHILE USING IDENTICAL PARTS
(73) GEKA GmbH
(72) WEIGEL, Friedrich
CUSSEAU, Sacha
BRILLAND, Arnaud
(31) 202018105591 U
202017107731 U
(32) 28.09.2018
19.12.2017
(33) Germany
Germany

(51) A46B 3/16
A46B 9/04
(11) EP3305128
(21) EP17196007.3
(47) 26.01.2022
(22) 09.03.2011
(54) TOOTHBRUSH COMPRISING BUNCHES OF BRISTLES AND METHOD FOR PRODUCING SUCH TOOTHBRUSHES
(73) Trisa Holding AG
(72) STEINMANN, Patrik
HESS, Walter
(31) 10008599
(32) 18.08.2010
(33) European Patent Office (EPO)

(51) A47B 13/00
F16B 12/16
(11) EP2872000
(21) EP13734399.2
(47) 26.01.2022
(87) EP2013064240
16.01.2014
(22) 05.07.2013
(54) TABLE TOP WITH A SUBSTRUCTURE AND A FASTENING DEVICE
(73) Severin Holz und Kunststoff GmbH
(72) SEVERIN, Heinz-Bernd
(31) 202012102539 U
(32) 10.07.2012
(33) Germany

(51) A47B 13/06
A47B 1/08
A47B 3/08
(11) EP3541241
(21) EP17872812.7
(47) 26.01.2022
(87) SE2017051138
24.05.2018
(22) 16.11.2017
(54) A COLLAPSIBLE TABLE STAND, AND A TABLE COMPRISING SUCH A TABLE STAND
(73) Polstiernan Industri AB
(72) GUSTAVSSON, Marcus
JOHANSSON, Stefan
JAHNSÉN, Peter
(31) 1651506
(32) 17.11.2016
(33) Sweden

(51) A47B 17/00
A47B 17/02
A47B 3/00
A47B 13/00
A47B 9/00
A47B 21/00
(11) EP3413751
(21) EP16890110.6
(47) 26.01.2022
(87) US2016066529
17.08.2017
(22) 14.12.2016
(54) COMBINATION FOLDABLE AND ADJUSTABLE WORKSTATION
(73) Symbiote, Inc.
(72) RANDOLPH, Travis M.
BOEVE, Heather L.
(31) 201615018969
(32) 09.02.2016
(33) United States of America

(51) A47B 46/00
E06B 3/50
(11) EP3261488
(21) EP15804825.6
(47) 26.01.2022
(87) EP2015078766
01.09.2016
(22) 07.12.2015
(54) FLAP FITTING FOR A WALL UNIT AS WELL AS FURNITURE WITH SUCH A FLAP FITTING
(73) Grass GmbH
(72) KRUEDENER, Boris
(31) 202015100935 U
(32) 26.02.2015
(33) Germany

(51) A47J 27/21
A47J 31/00
A47J 43/07
(11) EP3781002
(21) EP19719779.1
(47) 26.01.2022
(87) EP2019059407
24.10.2019
(22) 12.04.2019
(54) A FOOD PROCESSING APPARATUS AND A METHOD OF OPERATING THE SAME
(73) Koninklijke Philips N.V.
(72) PICHLER, Mario
MAIER, Dieter, Johann
(31) 18167674
(32) 17.04.2018
(33) European Patent Office (EPO)

(51) A47J 31/46
(11) EP3727109
(21) EP18826591.2
(47) 26.01.2022
(87) EP2018085360
27.06.2019
(22) 18.12.2018
(54) BEVERAGE PREPARATION MACHINE WITH DROP EVACUATION
(73) Société des Produits Nestlé S.A.
(72) KRISTLBAUER, Jürgen
(31) 17208722
(32) 20.12.2017
(33) European Patent Office (EPO)

(51) A47J 36/32
G06F 3/16
A47J 43/046
A47J 27/00
(11) EP3515266
(21) EP17761261.1
(47) 26.01.2022
(87) EP2017072074
29.03.2018
(22) 04.09.2017
(54) RECIPE-BASED COOKING AID
(73) BSH Hausgeräte GmbH
(72) RÖCKL, Matthias
(31) 102016218016
(32) 20.09.2016
(33) Germany

(51) A47J 42/08
A47J 42/18
A47J 42/38
(11) EP3804586
(21) EP19202351.3

(47) 26.01.2022
(22) 10.10.2019
(54) COFFEE MILL
(73) Hemro International AG
(72) DUNKELBERG, Oliver

(51) A47J 43/07
A47J 36/06
(11) EP3772303
(21) EP20161340.3
(47) 26.01.2022
(22) 05.03.2020
(54) LID FOR A MIXING VESSEL OF A KITCHEN APPLIANCE
(73) Harbour Star International Ltd.
(72) SCHROEDER, Thorsten
(31) 202019104360 U
(32) 08.08.2019
(33) Germany

(51) A47J 43/07
A47J 43/08
(11) EP3127460
(21) EP16181682.2
(47) 26.01.2022
(22) 28.07.2016
(54) IMPROVED CHOPPER SEALING DUE GEOMETRY "SEALING AREA" MODIFICATIONS
(73) BSH Hausgeräte GmbH
(72) Kovacec, Bostjan
Pesec, Jurij
Berzelak, Matej
(31) 201500184
(32) 03.08.2015
(33) Slovenia

(51) A47K 1/12
A47K 3/40
E03C 1/12
(11) EP3295846
(21) EP16792241.8
(47) 26.01.2022
(87) ES2016070351
17.11.2016
(22) 10.05.2016
(54) FLAT SURFACE FOR SINKS AND SHOWER PANS WITH DRAINAGE BY MEANS OF CHANNELS
(73) Cnes. M. Montero Pascual S.L.
(72) MONTERO PASCUAL, Mariano
(31) 201531311
201500487
(32) 15.09.2015
14.05.2015
(33) Spain
Spain

(51) A47K 3/28
E03B 1/04
E03C 1/04
(11) EP3595499
(21) EP18768447.7
(47) 26.01.2022
(87) SE2018050234
20.09.2018
(22) 12.03.2018
(54) METHOD FOR INDIVIDUALLY ADJUSTING OUTPUT WATER TEMPERATURE IN A DEVICE COMPRISING MULTIPLE OUTLETS
(73) Orbital Systems AB
(72) RIDELL, Michael
(31) 1750307
(32) 15.03.2017
(33) Sweden

(51) A47K 10/48
A61L 2/10
(11) EP3473150
(21) EP18000777.5
(47) 26.01.2022
(22) 28.09.2018
(54) HAND DRYER WITH UV DISINFECTION DEVICE
(73) Ushio Germany GmbH
(72) Hishinuma, Nobuyuki
Wakahata, Yasuhiko
(31) 102017009637
(32) 17.10.2017
(33) Germany

(51) A47K 11/02
(11) EP3781007
(21) EP19718656.2
(47) 26.01.2022
(87) EP2019059604
24.10.2019
(22) 15.04.2019
(54) INCINERATING TOILET WITH A LIFTING DEVICE
(73) CINDERELLA TECHNOLOGY AS
(72) HEGLI, Hans Kristian
HANSEN, Frode
ASLAKSEN, Odd Arne
(31) 20180518
(32) 16.04.2018
(33) Norway

(51) A47L 1/05
A47L 11/40
(11) EP3393320
(21) EP15816786.6
(47) 26.01.2022
(87) EP2015080887
29.06.2017
(22) 21.12.2015
(54) SUCTION NOZZLE FOR A HARD SURFACE CLEANING DEVICE AND HARD SURFACE CLEANING DEVICE HAVING A SUCTION NOZZLE OF THIS TYPE
(73) Alfred Kärcher SE & Co. KG
(72) VENTURINI, Eugenio
REGGIANI, Paolo

(51) A47L 5/22
A47L 5/28
A47L 9/32
A47L 9/28
A47L 9/24
B25G 1/04
B25G 3/18
(11) EP2989957
(21) EP15182134.5
(47) 26.01.2022
(22) 24.08.2015
(54) CLEANING APPARATUS
(73) LG Electronics Inc.
(72) KIM, Jeongyun
JANG, Jaewon
(31) 20150048292
20150031467
20140110774
(32) 06.04.2015
06.03.2015
25.08.2014
(33) Korea (Republic)
Korea (Republic)
Korea (Republic)

(51) A47L 5/28
A47L 9/28
A47L 9/32
(11) EP3708057
(21) EP20158098.2
(47) 26.01.2022
(22) 18.02.2020
(54) VACUUM CLEANER COMPRISING A MOBILE CONNECTOR PORTION
(73) SEB S.A.
(72) CORITON, Nicolas
DE SWARTE, Paul
(31) 1901742
(32) 21.02.2019
(33) France

(51) A47L 9/04
(11) EP3250102
(21) EP16744107.0
(47) 26.01.2022
(87) US2016015370
04.08.2016
(22) 28.01.2016
(54) SURFACE CLEANING HEAD INCLUDING OPENABLE AGITATOR CHAMBER AND REMOVABLE AGITATORS FOR USE THEREIN
(73) SharkNinja Operating LLC
(72) HUTCHINSON, Peter
BURKE, Erin
BURKE, Brian
BROWN, Andre David
XU, AiMing
XU, Kai
THORNE, Jason B.
D'AMICO, Michael
(31) 201514867599
201514812734
201514801185
201514744438
201514739915
201562110232 P
(32) 28.09.2015
29.07.2015
16.07.2015
19.06.2015
15.06.2015
30.01.2015
(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

(51) A47L 9/10
A47L 9/16
A47L 9/00
A47L 9/18
A47L 9/32
(11) EP3563744
(21) EP19176953.8
(47) 26.01.2022
(22) 21.06.2010

(54) DUST COLLECTOR COMPRISING A HANDLE UNIT AND INTENDED FOR A VACUUM CLEANER
(73) Samsung Electronics Co., Ltd.
(72) Joo, Sung-Tae
Park, Joung-Soo
Park, Heung-Jun
Kim, Min-Ha
Yang, Dong-Houn
(31) 20090079417
(32) 26.08.2009
(33) Korea (Republic)

(51) A47L 9/28
(11) EP3165147
(21) EP15814040.0
(47) 26.01.2022
(87) JP2015069169
07.01.2016
(22) 02.07.2015
(54) ELECTRIC VACUUM CLEANER
(73) Toshiba Lifestyle Products & Services Corporation
(72) OHTSUKA, Yuuji
MORISHITA, Atsushi
MURATA, Hiromitsu
ICHIKAWA, Hiromitsu
TANAKA, Masatoshi
MACHIDA, Yukio
(31) 2014138307
(32) 04.07.2014
(33) Japan

(51) A47L 11/24
A47L 11/28
(11) EP3618677
(21) EP18826310.7
(47) 26.01.2022
(87) EP2018085677
27.06.2019
(22) 18.12.2018
(54) CLEANING DEVICE AND METHOD OF OPERATION OF A CLEANING DEVICE
(73) Enway GmbH
(72) CHEN, Bo
NORDT, Julian
AMBEGODA, Thanuja
(31) 102017130954
(32) 21.12.2017
(33) Germany

(51) A47L 11/40
A47L 13/22
(11) EP3488755
(21) EP17203440.7
(47) 26.01.2022
(22) 24.11.2017
(54) CLEANING DEVICE
(73) Carl Freudenberg KG
(72) BRUGORA, Alessandro

(51) A47L 15/42
(11) EP2866636
(21) EP13730539.7
(47) 26.01.2022
(87) EP2013062694
03.01.2014
(22) 19.06.2013
(54) DOMESTIC APPLIANCE WITH LOCKING DEVICE AND DOOR COUNTERBALANCE SYSTEM
(73) BSH Hausgeräte GmbH
(72) MÜLLER, Jochen
LIPPERT, Walter
ERTL, Christian
HÖPFL, Markus
KONRAD, Markus
THIEL, Christoph
(31) 102012211254
(32) 29.06.2012
(33) Germany

(51) A47L 15/42
A47L 15/00
(11) EP3733039
(21) EP19425032.0
(47) 26.01.2022
(22) 02.05.2019
(54) INDUSTRIAL DISHWASHER WITH VARIABLE WATER HEATING SYSTEM
(73) Bonferraro S.p.A.
(72) ROSSATO, Andrea Carlo
BISSOLI, Attilio
TOSI, Mauro

(51) A47L 15/42
D06F 39/00
G01N 21/53
G01N 21/85
(11) EP3068278
(21) EP14790985.7
(47) 26.01.2022
(87) US2014061464
21.05.2015
(22) 21.10.2014
(54) LIQUID PRESENCE/TURBIDITY SENSOR USING SINGLE OPTICAL CHANNEL
(73) Illinois Tool Works Inc.
(72) SCLIP, Marco
BORDIGNON, Davide
(31) 201361903035 P
(32) 12.11.2013
(33) United States of America

(51) A47L 15/50
(11) EP2727512
(21) EP13189214.3
(47) 26.01.2022
(22) 18.10.2013
(54) Crockery basket and dishwasher, in particular domestic dishwasher comprising crockery basket
(73) BSH Hausgeräte GmbH
(72) Reiter, Andreas
Winkler, Ralf
Reiter, Stefan
(31) 102012219818
(32) 30.10.2012
(33) Germany

(51) A61B 1/00
A61B 1/04
A61B 5/00
G01N 21/64
G02B 21/00
(11) EP3272265
(21) EP16764652.0
(47) 26.01.2022
(87) JP2016055426
22.09.2016
(22) 24.02.2016
(54) SUPERIMPOSED IMAGE CREATION APPARATUS AND SUPERIMPOSED IMAGE CREATION METHOD
(73) Hamamatsu Photonics K.K.
(72) SATO Takayuki
MIWA Mitsuharu
HIRAWAKE Kazumasa
(31) 2015052945
(32) 17.03.2015
(33) Japan

(51) A61B 1/00
A61B 17/00
A61M 25/01
A61M 25/09
(11) EP3592201
(21) EP18763256.7
(47) 26.01.2022
(87) US2018021784
13.09.2018
(22) 09.03.2018
(54) SYSTEMS AND METHODS FOR STEERING GUIDEWIRES
(73) Georgia Tech Research Corporation
(72) DESAI, Jaydev P.
CHITALIA, Yash Chetan
(31) 201762469570 P
(32) 10.03.2017
(33) United States of America

(51) A61B 3/107
(11) EP2900120
(21) EP13773661.7
(47) 26.01.2022
(87) EP2013070199
03.04.2014
(22) 27.09.2013
(54) DEVICE FOR RELIABLY DETERMINING BIOMETRIC MEASUREMENT VARIABLES OF THE WHOLE EYE
(73) Carl Zeiss Meditec AG
(72) REICH, Matthias
KLOPFLEISCH, Peter
ANTKOWIAK, Gerard
EBERSBACH, Ralf
BAJRAMOVIC, Ferid
BÜHREN, Tobias
HACKER, Martin
(31) 102012019474
201261707004 P
(32) 28.09.2012
28.09.2012
(33) Germany
United States of America

(51) A61B 5/00
(11) EP3784116
(21) EP19720804.4
(47) 26.01.2022
(87) EP2019060250
31.10.2019
(22) 22.04.2019
(54) TUMOR MARGIN ASSESSMENT
(73) Koninklijke Philips N.V.
(72) SPLIETHOFF, Jarich, Willem
VAN DER VAART, Nijs, Cornelis
HENDRIKS, Bernardus, Hendrikus, Wilhelmus
WIJBRANS, Klaas, Cornelis, Jan
LUCASSEN, Gerhardus, Wilhelmus
(31) 18169011

(32) 24.04.2018
(33) European Patent Office (EPO)

(51) A61B 5/00
A61B 5/021
A61B 5/022
A61B 5/026
A61B 5/1172
(11) EP3626163
(21) EP19187752.1
(47) 26.01.2022
(22) 23.07.2019
(54) APPARATUS AND METHOD FOR ESTIMATING BIO-INFORMATION
(73) Samsung Electronics Co., Ltd.
(72) KANG, Jae Min
KIM, Youn Ho
KWON, Yong Joo
PARK, Sang Yun
(31) 20180114185
(32) 21.09.2018
(33) Korea (Republic)

(51) A61B 5/00
A61B 5/021
A61B 5/024
A61B 5/1172
A61B 5/01
(11) EP3153094
(21) EP16191387.6
(47) 26.01.2022
(22) 29.09.2016
(54) BLOOD PRESSURE MEASURING APPARATUS, AND BLOOD PRESSURE MEASURING APPARATUS USING LIGHT SOURCE SELECTION PROCESS
(73) Samsung Electronics Co., Ltd.
(72) KIM, Sun Kwon
KIM, Youn Ho
PARK, Sang Yun
KWON, Yong Joo
KANG, Jae Min
(31) 20150139389
(32) 02.10.2015
(33) Korea (Republic)

(51) A61B 5/00
A61B 5/05
A61B 5/145
A61B 5/15
G01N 27/26
G01N 27/416
G01N 33/48
G01N 33/50
G01N 33/66
H04B 7/26
H04L 29/08
A61B 5/1495
(11) EP3397141
(21) EP16882378.9
(47) 26.01.2022
(87) US2016067830
06.07.2017
(22) 20.12.2016
(54) INTELLIGENT WIRELESS COMMUNICATIONS FOR CONTINUOUS ANALYTE MONITORING
(73) Dexcom, Inc.
(72) BURNETTE, Douglas, William
HAMPAPURAM, Hari
COHEN, Eric
LARVENZ, Shawn
MENSINGER, Michael, Robert
WEDEKIND, Jeffrey, R.
HALAC, Jason
JEPSON, Lauren, Hruby
MANDAPAKA, Aditya
VALDES, Jorge
(31) 201562271880 P
(32) 28.12.2015
(33) United States of America

(51) A61B 5/00
A61B 5/20
(11) EP3446625
(21) EP17187957.0
(47) 26.01.2022
(22) 25.08.2017
(54) USE OF A SIGNALLING DEVICE FOR THE DETERMINATION OF A CATHETERISATION REQUIREMENT
(73) Perlitz, Volker
(72) Perlitz, Volker

(51) A61B 5/00
A61B 5/287
(11) EP3738505
(21) EP20182889.4
(47) 26.01.2022
(22) 22.01.2018
(54) BASKET CATHETER MADE FROM FLEXIBLE CIRCUIT BOARD WITH MECHANICAL STRENGTHENING
(73) Biosense Webster (Israel) Ltd
(72) LEVIN, Michael
AUERBACH, Shmuel
SHEMESH, Toam
REUVENI, Avi
(31) 201715412436
(32) 23.01.2017
(33) United States of America

(51) A61B 5/00
A61B 17/34
A61B 5/03
A61B 5/0215
A61B 5/20
A61B 17/00
A61B 90/00
(11) EP2134253
(21) EP08743794.3
(47) 26.01.2022
(87) US2008056643
25.09.2008
(22) 12.03.2008
(54) ACCESS NEEDLE PRESSURE SENSOR DEVICE
(73) University of Virginia Patent Foundation
(72) MAHAPATRA, Srijoy
GILLIES, George, T.
(31) 918782 P
(32) 19.03.2007
(33) United States of America

(51) A61B 5/00
A61B 18/14
H03F 3/45
H03M 1/12
H03M 1/66
A61B 5/282
A61B 5/287
A61B 5/30
A61B 5/304
A61B 18/00
(11) EP3607880
(21) EP19201252.4
(47) 26.01.2022
(22) 13.11.2017
(54) METHOD FOR REDUCING SWITCHING NOISE IN ANALOG BIOELECTRIC SIGNAL PROCESSING
(73) Biosense Webster (Israel) Ltd.
(72) KHUDISH, Oleg
EPHRATH, Yaron
GOVARI, Assaf
ALTMANN, Andres Claudio
(31) 201615350236
(32) 14.11.2016
(33) United States of America

(51) A61B 5/00
A61M 21/02
G16H 40/00
A61B 5/11
A61B 5/0205
A61B 5/024
A61B 5/08
A61M 21/00
(11) EP3138480
(21) EP16186904.5
(47) 26.01.2022
(22) 01.09.2016
(54) METHOD AND SYSTEM TO OPTIMIZE LIGHTS AND SOUNDS FOR SLEEP
(73) Withings
(72) HUTCHINGS, Cédric
BONVALLET, Eglantine
VILLARD, Joffrey
(31) 201514844571
(32) 03.09.2015
(33) United States of America

(51) A61B 5/00
A61M 25/01
A61B 5/06
(11) EP3138486
(21) EP16187037.3
(47) 26.01.2022
(22) 02.09.2016
(54) FIELD-BASED LOCATION COORDINATE CORRECTION
(73) Biosense Webster (Israel) Ltd.
(72) RAZ, Shaul Haim
PERI, Eitan
ZINO, Eliahu
LUDWIN, Doron Moshe
BAR-TAL, Meir
(31) 201615228555
201562214257 P
(32) 04.08.2016
04.09.2015
(33) United States of America
United States of America

(51) A61B 5/00
A61N 1/37
A61B 5/24
A61B 5/346
(11) EP3402397
(21) EP17703031.9
(47) 26.01.2022
(87) EP2017050345
20.07.2017

(22) 09.01.2017
(54) ACTIVE IMPLANTABLE MEDICAL DEFIBRILLATION DEVICE, INCLUDING IMPROVED MEANS FOR DISCRIMINATING BETWEEN EXTERNAL NOISE AND PROBE BREAKAGE AND FOR CHARACTERISING TACHYARRHYTHMIAS
(73) Sorin CRM SAS
(72) FEUERSTEIN, Delphine
EUZEN, Marie-Anne
(31) 1650194
(32) 11.01.2016
(33) France

(51) A61B 5/053
A61B 5/029
A61B 5/01
A61B 5/0295
A61B 5/08
A61B 5/11
A61B 5/1455
A61B 5/021
A61B 5/02
A61B 5/0205
A61B 5/145
A61B 5/0535
G16H 40/67
A61B 5/00
A61B 5/024
A61B 5/0245
(11) EP3646786
(21) EP19197712.3
(47) 26.01.2022
(22) 27.12.2011
(54) BODY-WORN SYSTEM FOR CONTINUOUS, NONINVASIVE MEASUREMENT OF AT LEAST ONE OF CARDIAC OUTPUT AND STROKE VOLUME FROM A PATIENT
(73) Sotera Wireless, Inc.
(72) BERNSTEIN, Donald
HENRY, Isaac
BANET, Matt
(31) 201061427756 P
(32) 28.12.2010
(33) United States of America

(51) A61B 5/0536
C09J 133/00
C08L 81/00
C09J 7/20
A61B 5/259
C08L 65/00
C09J 165/00
A61B 5/00
(11) EP3434177
(21) EP17183580.4
(47) 26.01.2022
(22) 27.07.2017
(54) SELF-ADHESIVE ELECTRODE PATCH
(73) Heraeus Deutschland GmbH & Co. KG
(72) Asmus, Tim
Neumann, Christian
Sautter, Armin

(51) A61B 5/087
A61B 5/00
(11) EP2989979
(21) EP14182446.6
(47) 26.01.2022
(22) 27.08.2014
(54) Respiratory waveform recognition method and system
(73) Apex Medical Corp.
(72) Yu, Ching-Liang
Lin, Geng-Hong
Huang, Sheng-Cheng
Lee, Da-Long
Jan, Hao-Yu
Lin, Kang-Ping
Shin, Po-Chung

(51) A61B 5/145
A61B 5/00
A61B 5/024
A61B 5/288
(11) EP3151744
(21) EP15726201.5
(47) 26.01.2022
(87) EP2015062616
10.12.2015
(22) 05.06.2015
(54) INTEGRATED ELECTRODE FOR SAMPLING OF LACTATE AND OTHER ANALYTES
(73) CINOX B.V.
(72) VAN DEN BERG, Paul Pierre
CREMERS, Thomas Ivo Franciscus Hubert
(31) 14171634
(32) 07.06.2014
(33) European Patent Office (EPO)

(51) A61B 5/145
A61M 5/142
A61M 5/50
A61N 1/38
A61B 5/00
(11) EP2863797
(21) EP13731311.0
(47) 26.01.2022
(87) EP2013062180
03.01.2014
(22) 12.06.2013
(54) SUB-EPIDERMAL ELECTRIC WARNING DEVICE
(73) PharmaSens AG
(72) MICHOT, Jean-Pierre
TSCHIRKY, Hansjörg
DINGER, Rudolf
HADVÁRY, Paul
(31) 12173390
(32) 25.06.2012
(33) European Patent Office (EPO)

(51) A61B 5/287
A61B 18/14
(11) EP3040019
(21) EP15202322.2
(47) 26.01.2022
(22) 23.12.2015
(54) ELECTROCARDIOGRAM NOISE REDUCTION
(73) Biosense Webster (Israel) Ltd.
(72) LIFSHITZ, Alexander
SHAH, Kruti
FANG, Itzhak
(31) 201414587538
(32) 31.12.2014
(33) United States of America

(51) A61B 5/304
G01R 27/02
G01R 27/28
A61B 5/00
G01R 27/00
(11) EP3209197
(21) EP15851703.7
(47) 26.01.2022
(87) US2015042144
28.04.2016
(22) 25.07.2015
(54) SIMULTANEOUS IMPEDANCE TESTING METHOD AND APPARATUS
(73) Natus Medical Incorporated
(72) XIA, Yongshou
KOLASA, William
GARZ, Eric
(31) 201414521382
(32) 22.10.2014
(33) United States of America

(51) A61B 5/367
A61B 18/14
A61B 34/20
A61M 25/00
(11) EP3345540
(21) EP18150636.1
(47) 26.01.2022
(22) 08.01.2018
(54) CATHETER WITH SUPPORTING STRUCTURE HAVING VARIABLE CROSS-SECTIONS
(73) Biosense Webster (Israel) Ltd.
(72) WU, Steven
(31) 201715401166
(32) 09.01.2017
(33) United States of America

(51) A61B 6/00
G01N 33/483
G01N 1/36
A01K 1/03
G01N 21/64
A61B 5/00
A61B 5/055
A61B 6/04
(11) EP3087920
(21) EP14875363.5
(47) 26.01.2022
(87) KR2014012370
02.07.2015
(22) 15.12.2014
(54) IMAGING DEVICE FOR ANIMALS
(73) Vieworks Co., Ltd.
(72) WON, Ho Keun
YANG, Han Su
SON, Kyung Su
KANG, You Jung
(31) 20130164881
(32) 27.12.2013
(33) Korea (Republic)

(51) A61B 6/03
A61B 6/02
A61B 6/14
A61B 6/00
(11) EP3590432
(21) EP18761564.6
(47) 26.01.2022
(87) JP2018008063
07.09.2018

(22) 02.03.2018
(54) X-RAY TOMOGRAPHY APPARATUS AND X-RAY TOMOGRAPHY METHOD
(73) J. Morita Manufacturing Corporation
(72) NISHIMURA, Yuu
(31) 2017039345
(32) 02.03.2017
(33) Japan

(51) A61B 6/10
A61B 6/00
G01T 1/00
(11) EP3466341
(21) EP18195865.3
(47) 26.01.2022
(22) 21.09.2018
(54) X-RAY DETECTOR STRUCTURE
(73) General Electric Company
(72) KONKLE, Nicholas Ryan
MCCOLL, Connor Douglas
KINSEY, Kevin Edward
LEE, Kevin
(31) 201715719999
(32) 29.09.2017
(33) United States of America

(51) A61B 6/14
A61B 6/00
A61B 6/03
(11) EP3711672
(21) EP19164606.6
(47) 26.01.2022
(22) 22.03.2019
(54) METHOD AND DEVICE FOR PRODUCING A PANORAMIC TOMOGRAPHIC IMAGE OF AN OBJECT TO BE RECORDED
(73) DENTSPLY SIRONA Inc.
Sirona Dental Systems GmbH
(72) Eichner, Stefan
Hülsbusch, Markus

(51) A61B 6/14
A61B 6/00
A61C 19/04
(11) EP3226769
(21) EP14833465.9
(47) 26.01.2022
(87) IB2014002981
09.06.2016
(22) 04.12.2014
(54) VISUAL INDICATOR FOR THE ASSESSMENT OF THE TILT OF THE FRANKFORT PLANE IN EXTRA ORAL DENTAL IMAGING DEVICES
(73) Trophy
(72) MARTINO, Olivier
LECUYER, Yann

(51) A61B 8/08
A61B 5/103
A61B 5/11
(11) EP2875782
(21) EP13822399.5
(47) 26.01.2022
(87) CN2013079385
30.01.2014
(22) 15.07.2013
(54) THREE-DIMENSIONAL ULTRASONIC IMAGING SYSTEM
(73) Telefield Medical Imaging Limited
(72) LEE, Cheong Lim
MAK, Tak Man
ZHENG, Yongping
CHEUNG, Chung Wai James
(31) 201310113679
201261674400 P
(32) 02.04.2013
23.07.2012
(33) China
United States of America

(51) A61B 10/00
(11) EP3165173
(21) EP16196975.3
(47) 26.01.2022
(22) 03.11.2016
(54) SPLITTABLE FLUID SAMPLE COLLECTOR
(73) Bodner, Moishe
(72) Bodner, Moishe
(31) 201514932718
(32) 04.11.2015
(33) United States of America

(51) A61B 10/02
A61B 10/00
C12N 5/073
G01N 33/50
A61F 13/84
C12N 5/0735
C12Q 1/68
(11) EP2863808
(21) EP13806393.8
(47) 26.01.2022
(87) US2013047383
27.12.2013
(22) 24.06.2013
(54) METHOD FOR OBTAINING FETAL CELLS AND FETAL CELLULAR COMPONENTS
(73) Preprogen LLC
Fleming, William, H.
Hirschman, Shalom, Z.
(72) HIRSCHMAN, Shalom, Z.
FLEMING, William, H.
(31) 201261663456 P
(32) 22.06.2012
(33) United States of America

(51) A61B 10/02
A61B 90/00
(11) EP3576635
(21) EP18748600.6
(47) 26.01.2022
(87) US2018016888
09.08.2018
(22) 05.02.2018
(54) SYSTEM, METHOD AND APPARATUS FOR INTEGRATED TISSUE SAMPLING AND TISSUE MARKER PLACEMENT
(73) Device and Design, LLC
(72) SUBEDI, Shree K.
(31) 201762454955 P
(32) 06.02.2017
(33) United States of America

(51) A61B 17/00
A61B 17/32
A61B 17/3209
(11) EP3849427
(21) EP19768899.7
(47) 26.01.2022
(87) IB2019056262
19.03.2020
(22) 23.07.2019
(54) CUTTING TOOL FOR THE HORIZONTAL INCISION OF A TENDON
(73) Medacta International SA
(72) BERBERICH, Sascha
SICCARDI, Francesco
PARISI, Gianluca
CAKIC, Luka
LUCCHINI, Riccardo
(31) 201800008559
(32) 13.09.2018
(33) Italy

(51) A61B 17/064
(11) EP2430993
(21) EP11194086.2
(47) 26.01.2022
(22) 20.12.2006
(54) DEVICES AND METHODS FOR BONE ANCHORING
(73) Intrinsic Therapeutics, Inc.
(72) Moore, Kevin R.
Velagic, Almir
Einhorn, Jacob
Kavanaugh, Sean
Lambrecht, Gregory
Boyajian, Thomas
Tarapata, Christopher
(31) 641253
75423705 P
(32) 19.12.2006
28.12.2005
(33) United States of America
United States of America

(51) A61B 17/072
(11) EP3072455
(21) EP16162048.9
(47) 26.01.2022
(22) 23.03.2016
(54) FLOWABLE BIOABSORBABLE POLYMER ADHESIVE FOR RELEASABLY ATTACHING A STAPLE BUTTRESS TO A SURGICAL STAPLER
(73) Ethicon LLC
(72) HARRIS, Jason L.
TURNER, Prudence A.
MORGAN, Jerome R.
SHELTON, IV, Frederick E.
SCHEIB, Charles J.
(31) 201514667951
(32) 25.03.2015
(33) United States of America

(51) A61B 17/12
A61F 2/24
A61B 17/04
A61B 17/06
A61B 17/08
A61B 17/122
A61B 17/10
A61B 17/064
A61B 17/128
A61B 17/29
(11) EP2400922
(21) EP09840949.3
(47) 26.01.2022
(87) US2009068023
02.09.2010
(22) 15.12.2009

(54) DETACHMENT MECHANISM FOR IMPLANTABLE FIXATION DEVICES
(73) Evalve, Inc.
(72) THORNTON, Troy, L.
KETAI, Theodore, W.
RASCHDORF, JR., Alfred, H.
(31) 393452
(32) 26.02.2009
(33) United States of America

(51) A61B 17/16
(11) EP3698730
(21) EP20158897.7
(47) 26.01.2022
(22) 21.02.2020
(54) MILLING TOOL FOR PROSTHETIC SURGERY OPERATIONS
(73) HPF S.R.L.
(72) Lualdi, Tommaso
(31) 201900014877
201900002617
(32) 20.08.2019
22.02.2019
(33) Italy
Italy

(51) A61B 17/16
A61B 17/92
(11) EP3569164
(21) EP19173613.1
(47) 26.01.2022
(22) 09.05.2019
(54) ORTHOPEDIC ADAPTER FOR AN ELECTRIC IMPACTING TOOL
(73) DePuy Synthes Products, Inc.
(72) PEDICINI, Christopher
(31) 201815978763
(32) 14.05.2018
(33) United States of America

(51) A61B 17/16
A61C 3/02
A61B 18/00
A61B 8/00
A61B 17/32
(11) EP2763603
(21) EP12837901.3
(47) 26.01.2022
(87) US2012058707
11.04.2013
(22) 04.10.2012
(54) ULTRASONIC OSTEOTOME
(73) Misonix Incorporated
(72) DARIAN, Alexander, L.
(31) 201113268057
(32) 07.10.2011
(33) United States of America

(51) A61B 17/17
A61B 17/80
(11) EP3727168
(21) EP17822667.6
(47) 26.01.2022
(87) EP2017083945
27.06.2019
(22) 20.12.2017
(54) A TARGETING DEVICE FOR FIXATION OF BONE FRAGMENTS AT A BONE FRACTURE
(73) Swemac Innovation AB
(72) ÖSTER, Lars
HANSSON, Henrik

(51) A61B 17/17
A61B 17/86
A61B 17/88
(11) EP3662847
(21) EP19208455.6
(47) 26.01.2022
(22) 03.05.2018
(54) INSERTION INSTRUMENT FOR INSERTING ANTI-MIGRATION ELEMENTS INTO A BONE SCREW FOR THE TREATMENT OF BONE COLLAPSES OR DEFORMATIONS, SUCH AS IN THE CASE OF THE CHARCOT FOOT
(73) Orthofix S.R.L.
(72) VICENZI, Federico
(31) 201700048446
(32) 04.05.2017
(33) Italy

(51) A61B 17/22
A61B 17/221
A61B 17/3207
(11) EP3849439
(21) EP19773315.7
(47) 26.01.2022
(87) US2019050467
19.03.2020
(22) 10.09.2019
(54) INVERTING THROMBECTOMY APPARATUSES
(73) Stryker Corporation
(72) TANG, Winnie
LEGUIDLEGUID, Roy
GREENHALGH, E., Skott
WALLACE, Michael, P.
VAN, Clifford
(31) 201862729276 P
(32) 10.09.2018
(33) United States of America

(51) A61B 17/221
A61B 17/00
(11) EP3219265
(21) EP15855902.1
(47) 26.01.2022
(87) RU2015000726
06.05.2016
(22) 30.10.2015
(54) DEVICE FOR MANIPULATING FOREIGN BODIES IN HOLLOW ORGANS (VARIANTS)
(73) Obschestvo S Ogranichennoy Otvetstvennostyu "Smet"
(72) HACHIN, Vladimir Nikolaevich
HACHIN, Stepan Vladimirovich
(31) 2014144355
(32) 31.10.2014
(33) Russian Federation

(51) A61B 17/32
A61B 17/128
(11) EP3263055
(21) EP17184251.1
(47) 26.01.2022
(22) 01.12.2008
(54) CORDLESS HAND-HELD ULTRASONIC CAUTERY CUTTING DEVICE
(73) Covidien AG
(72) DEVILLE, Derek, Lee
SMITH, Kevin, W.
PALMER, Matthew, A.
MCBRAYER, Sean
BALES, Thomas, O.
KLINE, Korey
(31) 270146
269544
269629
266664
266226
266320
266146
266252
266101
81885 P
48809 P
45475 P
19888 P
992498 P
991829 P
(32) 13.11.2008
12.11.2008
12.11.2008
07.11.2008
06.11.2008
06.11.2008
06.11.2008
06.11.2008
06.11.2008
18.07.2008
29.04.2008
16.04.2008
09.01.2008
05.12.2007
03.12.2007
(33) United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America

(51) A61B 17/32
A61B 18/14
A61B 34/30
(11) EP3505103
(21) EP18275250.1
(47) 26.01.2022
(22) 28.12.2018
(54) ULTRASONIC SURGICAL INSTRUMENT HAVING MEANS FOR CONTROLLING ACTIVATION ACCORDING TO THE PRESENCE OF TISSUE
(73) Ethicon LLC
(72) MESSERLY, Jeffrey D.
SHELTON, IV Frederick E.
(31) 201816115220
201862721995 P
201862721998 P

201862721999 P
201862721994 P
201862721996 P
201862692747 P
201862692748 P
201862692768 P
201862650887 P
201862650877 P
201862650882 P
201862650898 P
201762611341 P
201762611340 P
201762611339 P
(32) 28.08.2018
23.08.2018
23.08.2018
23.08.2018
23.08.2018
23.08.2018
30.06.2018
30.06.2018
30.06.2018
30.03.2018
30.03.2018
30.03.2018
30.03.2018
28.12.2017
28.12.2017
28.12.2017
(33) United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America

(51) A61B 17/42
A61B 17/00
A61B 17/34
A61B 17/06
A61B 17/02
A61B 17/04
A61B 18/00
A61F 2/04
(11) EP1887976
(21) EP06770621.8
(47) 26.01.2022
(87) US2006019372
30.11.2006
(22) 19.05.2006
(54) DEVICES FOR TREATING BENIGN PROSTATIC HYPERPLASIA AND OTHER CONDITIONS
(73) Neotract, Inc.
(72) CANTANESE, Joseph, III
LAMSON, Theodore, Charles
WALKE, Amrish, Jayprakash
REDMOND, Russell, J.
COLLINSON, Michael
WELCH, Jacqueline, Nerney
VIDAL, Claude
MAKOWER, Joshua
(31) 134870
(32) 20.05.2005
(33) United States of America

(51) A61B 17/43
A61D 19/02
(11) EP3863541
(21) EP19794852.4
(47) 26.01.2022
(87) US2019055688
16.04.2020
(22) 10.10.2019
(54) SYSTEM FOR INTRAUTERINE INSEMINATION
(73) Plessala, Deneen, T.
Plessala, Kirby J.
Falkner, Peter, T.
(72) Falkner, Peter, T.
Plessala, Deneen, T.
Plessala, Kirby J.
(31) 201962814910 P
201862743926 P
PCT/US2019/028630
PCT/US2018/063100
(32) 07.03.2019
10.10.2018
23.04.2019
29.11.2018
(33) United States of America
United States of America
World Intellectual Property Office (WIPO)
World Intellectual Property Office (WIPO)

(51) A61B 17/70
(11) EP3197380
(21) EP15774809.6
(47) 26.01.2022
(87) US2015051172
31.03.2016
(22) 21.09.2015
(54) SPINAL CONNECTORS
(73) DePuy Synthes Products, Inc.
(72) GORHAN, Michael
LAWARE, Adam
BOOTWALA, Zoher
(31) 201414496804
(32) 25.09.2014
(33) United States of America

(51) A61B 17/70
A61B 17/88
(11) EP3626190
(21) EP19199127.2
(47) 26.01.2022
(22) 28.07.2015
(54) DEVICES FOR SPINAL SCREW INSERTION
(73) DePuy Synthes Products, Inc.
(72) PAVENTO, Nicholas
DIVINCENZO, John
(31) 201414450952
(32) 04.08.2014
(33) United States of America

(51) A61B 17/70
A61F 2/30
A61F 2/44
(11) EP3727174
(21) EP18836406.1
(47) 26.01.2022
(87) IB2018060291
27.06.2019
(22) 18.12.2018
(54) IMPROVED PARTIAL ENDOPROSTHESIS DEVICE FOR A VERTEBRAL JOINT
(73) G & G S.r.l.
Innocenzi, Gualtiero
Petrini, Piero
(72) INNOCENZI, Gualtiero
PETRINI, Piero
GUIZZARDI, Giancarlo
(31) 201700146043
(32) 18.12.2017
(33) Italy

(51) A61B 17/80
A61B 17/04
(11) EP3641679
(21) EP18823798.6
(47) 26.01.2022
(87) US2018040600
03.01.2019
(22) 02.07.2018
(54) NEUTRALIZATION PLATE
(73) Vickaryous, Brian K.P.
(72) Vickaryous, Brian K.P.
(31) 201762527200 P
(32) 30.06.2017
(33) United States of America

(51) A61B 17/88
(11) EP3302324
(21) EP16725515.7
(47) 26.01.2022
(87) EP2016061845
01.12.2016
(22) 25.05.2016
(54) MIXING AND DISPENSING GUN
(73) Stenhus i Lund AB
(72) LARSSON, Ulf
DRENNOW, Sten
(31) 1550672
(32) 25.05.2015
(33) Sweden

(51) A61B 17/88
A61B 17/92
A61F 2/46
A61F 2/32
A61B 17/17
A61B 34/20
(11) EP2720631
(21) EP12800328.2
(47) 26.01.2022
(87) US2012041613
20.12.2012
(22) 08.06.2012
(54) SURGICAL ALIGNMENT USING REFERENCES
(73) Smith&Nephew, Inc.
(72) BETTENGA, Mason
(31) 201161497601 P
201161497604 P
(32) 16.06.2011
16.06.2011
(33) United States of America
United States of America

(51) A61B 18/02
A61B 5/00

A61M 5/00
G16H 50/30
A61B 5/0538
(11) EP3226757
(21) EP15865807.0
(47) 26.01.2022
(87) CA2015051272
09.06.2016
(22) 04.12.2015
(54) SYSTEM TO ASSESS QUALITY OF OCCLUSION THROUGH IMPEDANCE MEASUREMENT
(73) Medtronic Cryocath LP
(72) LALONDE, Jean Pierre
COULOMBE, Nicolas
(31) 201514689180
201462088267 P
(32) 17.04.2015
05.12.2014
(33) United States of America
United States of America

(51) A61B 18/02
A61B 18/12
H02H 5/08
G08B 21/20
A61B 18/00
(11) EP3310283
(21) EP16732414.4
(47) 26.01.2022
(87) US2016036614
22.12.2016
(22) 09.06.2016
(54) CATHETER BREACH LOOP FEEDBACK FAULT DETECTION WITH ACTIVE AND INACTIVE DRIVER SYSTEM
(73) Medtronic, Inc.
(72) HARELAND, Scott A.
(31) 201514741637
(32) 17.06.2015
(33) United States of America

(51) A61B 18/14
A61B 5/024
A61B 5/00
A61B 18/00
(11) EP3241516
(21) EP17169635.4
(47) 26.01.2022
(22) 05.05.2017
(54) CATHETER WITH SHUNTING ELECTRODE
(73) Biosense Webster (Israel) Ltd.
(72) SHAH, Kruti
LIFSHITZ, Alexander
SCHMIDT, Jerry
(31) 201615148475
(32) 06.05.2016
(33) United States of America

(51) A61B 18/14
A61B 17/068
A61B 17/29
(11) EP3361975
(21) EP16784709.4
(47) 26.01.2022
(87) US2016056405
20.04.2017
(22) 11.10.2016
(54) SURGICAL DEVICE WITH WIPING ELECTRODE AND STAPLING MEMBER
(73) Ethicon LLC
(72) YATES, David C.
SCHEIB, Charles J.
VENDELY, Michael J.
ZEINER, Mark S.
(31) 201514885341
(32) 16.10.2015
(33) United States of America

(51) A61B 18/14
A61B 18/00
(11) EP3202358
(21) EP17153207.0
(47) 26.01.2022
(22) 23.12.2015
(54) CATHETER WITH IRRIGATED TIP ELECTRODE WITH POROUS SUBSTRATE AND HIGH DENSITY SURFACE MICRO-ELECTRODES
(73) Biosense Webster (Israel), Ltd.
(72) PAPAIOANNOU, Athanassios
GOVARI, Assaf
BEECKLER, Christopher Thomas
(31) 201414586907
(32) 30.12.2014
(33) United States of America

(51) A61B 18/14
A61M 25/00
B29C 65/00
A61B 18/00
A61B 5/283
(11) EP3508155
(21) EP19155017.7
(47) 26.01.2022
(22) 28.05.2015
(54) MEDICAL DEVICE
(73) St. Jude Medical, Cardiology Division, Inc.
(72) TEGG, Troy Terrance
HER, John Son
ARIAS-GONZALEZ, Salome
HOUCK, Alexander Carson
MOM, Somally
(31) 201462008180 P
(32) 05.06.2014
(33) United States of America

(51) A61B 34/20
A61B 18/00
A61B 17/00
A61B 5/113
(11) EP3569179
(21) EP19174130.5
(47) 26.01.2022
(22) 13.05.2019
(54) CORRECTING MAP SHIFTING OF A CATHETER POSITION TRACKING SYSTEM
(73) Biosense Webster (Israel) Ltd.
(72) ROSENBERG, Avigdor
RAZ, Shaul Haim
(31) 201815979078
(32) 14.05.2018
(33) United States of America

(51) A61B 34/30
B25J 9/16
(11) EP3119334
(21) EP15765367.6
(47) 26.01.2022
(87) US2015018456
24.09.2015
(22) 03.03.2015
(54) STRUCTURAL ADJUSTMENT SYSTEMS AND METHODS FOR A TELEOPERATIONAL MEDICAL SYSTEM
(73) Intuitive Surgical Operations, Inc.
(72) ITKOWITZ, Brandon D.
MOHR, Paul W.
(31) 201461954090 P
(32) 17.03.2014
(33) United States of America

(51) A61B 50/30
A61B 90/98
A61B 90/00
(11) EP3295888
(21) EP17187856.4
(47) 26.01.2022
(22) 25.08.2017
(54) DEVICE FOR SURGICAL INSTRUMENT, HAVING SENSORS FOR STORING INFORMATION
(73) In'Tech Medical
(72) PRUVOST, Laurent
LEROY, Xavier
HASSANE, François
KHALIFE, Patrick
(31) 1658709
(32) 16.09.2016
(33) France

(51) A61B 90/00
A61B 8/08
A61B 17/34
A61M 25/01
(11) EP3833264
(21) EP19752675.9
(47) 26.01.2022
(87) EP2019071159
13.02.2020
(22) 07.08.2019
(54) INTERVENTIONAL DEVICE WITH AN ULTRASOUND TRANSDUCER
(73) Koninklijke Philips N.V.
B. Braun Melsungen AG
(72) STAPERT, Hendrik, Roelof
DE WIJS, Willem-Jan, Arend
LIJTEN, Gerardus, Franciscus, Cornelis, Maria
THORENZ, Mathias
SHIBAYAMA, Yuichi
(31) 201862716144 P
18198820
(32) 08.08.2018
05.10.2018
(33) United States of America
European Patent Office (EPO)

(51) A61C 5/00
A61C 7/14
(11) EP3581140
(21) EP18305716.5
(47) 26.01.2022
(22) 12.06.2018
(54) PEARL AS A HOLDING ELEMENT FOR AN ORTHODONTIC SPLINT
(73) 3C
(72) ERNENWEIN, Didier

HARVENT, Jacques
CURIEL, Bruno
COUDRIN, Benjamin

(51) A61C 7/00
(11) EP3332731
(21) EP16203215.5
(47) 26.01.2022
(22) 09.12.2016
(54) METHOD FOR MANUFACTURING EQUIPMENT FOR TREATMENT OF A PERSON
(73) Forstgarten International Holding GmbH
(72) HORNUNG, Frank

(51) A61C 7/14
A61C 7/28
(11) EP3581146
(21) EP18305715.7
(47) 26.01.2022
(22) 12.06.2018
(54) PEARL FOR ORTHODONTIC TREATMENT
(73) 3C
(72) COUDRIN, Benjamin
CURIEL, Bruno
HARVENT, Jacques
ERNENWEIN, Didier

(51) A61C 17/02
A61C 5/40
A61C 1/06
A61M 3/00
(11) EP3597145
(21) EP19179168.0
(47) 26.01.2022
(22) 17.12.2012
(54) ELECTRICAL DISCHARGE IRRIGATOR APPARATUS
(73) G&H Technologies, LLC
(72) HECKERMAN, Brad B.
FREGOSO, Gilbert
(31) 201261699568 P
(32) 11.09.2012
(33) United States of America

(51) A61C 17/16
A61C 17/22
A61C 17/26
B26B 21/52
H01R 12/58
H01R 13/02
(11) EP3733117
(21) EP19172250.3
(47) 26.01.2022
(22) 02.05.2019
(54) PERSONAL CARE DEVICE
(73) Braun GmbH
(72) DESSI, Riccardo
SCHWARZ, Tobias
ELLSÄßER, Christian
HOPPERT, Julius

(51) A61C 17/32
A61C 17/34
(11) EP3718504
(21) EP19167623.8
(47) 26.01.2022
(22) 05.04.2019
(54) ELECTRICAL BRUSH HANDPIECE AND ELECTRIC TOOTHBRUSH USING THE ELECTRIC BRUSH HANDPIECE AND ATTACHABLE HEAD
(73) Trisa Holding AG
(72) INGOLD, Andreas

(51) A61F 2/00
(11) EP3137015
(21) EP15719106.5
(47) 26.01.2022
(87) US2015026005
05.11.2015
(22) 15.04.2015
(54) THREE-DIMENSIONAL RESORBABLE IMPLANTS FOR TISSUE REINFORCEMENT AND HERNIA REPAIR
(73) Tepha, Inc.
(72) FOSCO, Antonio
GANATRA, Amit
RIZK, Said
WILLIAMS, Simon F.
MARTIN, David P.
(31) 201461986499 P
(32) 30.04.2014
(33) United States of America

(51) A61F 2/07
A61F 2/86
A61F 2/915
A61F 2/89
(11) EP3169275
(21) EP15745049.5
(47) 26.01.2022
(87) US2015040856
21.01.2016
(22) 17.07.2015
(54) STENT HAVING ADJACENT ELEMENTS CONNECTED BY NARROW FLEXIBLE WEBS
(73) W. L. Gore & Associates, Inc.
(72) KUSTUSCH, Jeffrey J.
KARINIEMI, Ryan D.
ULM, Mark J.
(31) 201514801486
201462025670 P
(32) 16.07.2015
17.07.2014
(33) United States of America
United States of America

(51) A61F 2/08
(11) EP3636221
(21) EP19210108.7
(47) 26.01.2022
(22) 10.04.2017
(54) TENODESIS ANCHORING SYSTEMS AND TOOLS
(73) DePuy Synthes Products, Inc.
(72) SA, Sherri
MILLER, Gerome
PICCIRILLO, Justin M.
(31) 201615093948
(32) 08.04.2016
(33) United States of America

(51) A61F 2/16
(11) EP2624784
(21) EP11767602.3
(47) 26.01.2022
(87) CH2011000234
12.04.2012
(22) 03.10.2011
(54) INTRAOCULAR LENS IMPLANT
(73) Accommo AG
(72) HAEFLIGER, Eduard Anton
(31) PCT/CH2010/000246
(32) 06.10.2010
(33) World Intellectual Property Office (WIPO)

(51) A61F 2/24
(11) EP3220856
(21) EP15813129.2
(47) 26.01.2022
(87) IL2015051109
26.05.2016
(22) 17.11.2015
(54) HEART VALVE PROSTHESIS
(73) Mitrassist Medical Ltd.
(72) NAOR, Gil
NETA, Yiftah
GEVA, Avner
MEYER-BRODNITZ, Gideon
(31) 201462080619 P
(32) 17.11.2014
(33) United States of America

(51) A61F 2/24
(11) EP3700467
(21) EP18796408.5
(47) 26.01.2022
(87) EP2018079516
02.05.2019
(22) 26.10.2018
(54) ANNULOPLASTY IMPLANT
(73) Medtentia International Ltd Oy
(72) ZERKOWSKI, Hans-Reinhard
KERÄNEN, Olli
(31) 201762578066 P
17199059
(32) 27.10.2017
27.10.2017
(33) United States of America
European Patent Office (EPO)

(51) A61F 2/24
A61F 2/00
(11) EP3740162
(21) EP19704135.3
(47) 26.01.2022
(87) US2019014338
25.07.2019
(22) 18.01.2019
(54) COVERED PROSTHETIC HEART VALVE
(73) Edwards Lifesciences Corporation
(72) NGUYEN, Ngoc, Hoang Thi
CHHE, Chambory
PATEL, Darshin, S.
DU, Yuanlong
SCHWARTZ, Evan, T.
PAWAR, Sandip, Vasant
LADDHA, Arpit
BUKIN, Michael
MANASH, Boaz
HAIVATOV, Sara
CHU, Waina, Michelle
LEVI, Tamir S.
CHOW, Sean
(31) 201862703363 P
201815876053
(32) 25.07.2018
19.01.2018
(33) United States of America

United States of America

(51) A61F 2/28
A61F 2/30
A61F 2/34
A61F 2/36
A61F 2/38
(11) EP3713520
(21) EP18795980.4
(47) 26.01.2022
(87) EP2018079383
23.05.2019
(22) 26.10.2018
(54) IMPLANT FOR THE TREATMENT AND/OR BIOLOGICAL RECONSTRUCTION OF A BONE DEFECT
(73) Aesculap AG
(72) KÖNIG, Silke
HETTICH, Georg
ABELE, Wolfgang
(31) 102017220710
(32) 20.11.2017
(33) Germany

(51) A61F 2/32
A61F 2/46
(11) EP2967879
(21) EP14762650.1
(47) 26.01.2022
(87) US2014028381
18.09.2014
(22) 14.03.2014
(54) DEVICES, SYSTEMS AND METHODS FOR MONITORING HIP REPLACEMENTS
(73) Canary Medical Inc.
(72) HUNTER William, L.
(31) 201361789170 P
(32) 15.03.2013
(33) United States of America

(51) A61F 2/44
A61F 2/46
A61F 2/30
(11) EP3766460
(21) EP20195480.7
(47) 26.01.2022
(22) 27.01.2017
(54) EXPANDABLE IMPLANT AND INSERTION TOOL
(73) Warsaw Orthopedic, Inc.
(72) DEWEY, Jonathan M
(31) 201615008805
(32) 28.01.2016
(33) United States of America

(51) A61F 2/60
A61F 2/68
A61F 2/70
H01R 25/00
(11) EP3727209
(21) EP18826308.1
(47) 26.01.2022
(87) EP2018085665
27.06.2019
(22) 18.12.2018
(54) SYSTEM MADE UP OF MULTIPLE ORTHOPEDIC COMPONENTS AND METHOD FOR CONTROLLING SUCH A SYSTEM
(73) Otto Bock Healthcare Products GmbH
(72) KLINGEBIEL, Karl-Heinz
PAPPE, Alexander
PAUSER, Thomas
WÜSTEFELD, Andreas
ALBRECHT-LAATSCH, Erik
HOFFMANN, Robert
NOLTE, Michael
WEIGL-POLLACK, Andreas
KAITAN, Robert
MOSLER, Lüder
SCHRAMEL, Andreas
SAGMEISTER, Luis
(31) 102017131190
(32) 22.12.2017
(33) Germany

(51) A61F 5/44
A61F 5/443
A61F 5/445
(11) EP3727232
(21) EP18833606.9
(47) 26.01.2022
(87) DK2018050391
27.06.2019
(22) 20.12.2018
(54) OSTOMY APPLIANCE WITH SELECTIVE SENSOR POINTS AND RELATED METHODS
(73) Coloplast A/S
(72) THOEGERSEN, Klaus
SPEIERMANN, Finn
HANSEN, Jais Ask
HVID, Niels
LARSEN, Lars Erup
(31) PA201770992
(32) 22.12.2017
(33) Denmark

(51) A61F 5/44
A61F 5/443
A61F 5/445
(11) EP3727234
(21) EP18833608.5
(47) 26.01.2022
(87) DK2018050393
27.06.2019
(22) 20.12.2018
(54) OSTOMY APPLIANCE WITH ANGULAR LEAKAGE DETECTION
(73) Coloplast A/S
(72) LARSEN, Lars Erup
HANSEN, Jais Ask
SPEIERMANN, Finn
HVID, Niels
THOEGERSEN, Klaus
(31) PA201870070
PA201770979
PA201770994
(32) 05.02.2018
22.12.2017
22.12.2017
(33) Denmark
Denmark
Denmark

(51) A61F 7/08
B65D 39/08
A61F 7/10
(11) EP3232999
(21) EP15823331.2
(47) 26.01.2022
(87) EP2015080681
23.06.2016
(22) 18.12.2015
(54) SAFETY CLOSURE FOR A HOT-WATER BOTTLE
(73) WFI Wärmflascheninnovation UG (Haftungsbeschränkt)
(72) KRAUTTER, Anja
DIEZ, Laura
OHMER, Benjamin
JUNIOR, Volker
(31) 102015117217
102015114671
102015114180
102015101853
102014119307
(32) 08.10.2015
02.09.2015
26.08.2015
10.02.2015
20.12.2014
(33) Germany
Germany
Germany
Germany
Germany

(51) A61F 7/12
A61N 7/00
A61F 7/00
(11) EP3508180
(21) EP19152748.0
(47) 26.01.2022
(22) 05.01.2016
(54) ENDOCAVITY TEMPERATURE CONTROL DEVICE
(73) Profound Medical Inc.
(72) Wybenga, Michael
Moffitt, Owen
(31) 201562099873 P
(32) 05.01.2015
(33) United States of America

(51) A61F 9/007
A61B 90/20
A61B 90/00
A61B 34/20
A61B 34/00
(11) EP3235477
(21) EP15869510.6
(47) 26.01.2022
(87) JP2015005995
23.06.2016
(22) 02.12.2015
(54) INFORMATION PROCESSING DEVICE, SURGICAL MICROSCOPE SYSTEM AND INFORMATION PROCESSING METHOD
(73) Sony Group Corporation
(72) SAKAGUCHI, Tatsumi
TAKAHASHI, Yoshitomo
OOTSUKI, Tomoyuki
(31) 2014256040
(32) 18.12.2014
(33) Japan

(51) A61F 9/007
A61F 9/00
(11) EP3110375
(21) EP15708671.1
(47) 26.01.2022
(87) US2015017779

03.09.2015
(22) 26.02.2015
(54) INTRAOCULAR IMPLANT DELIVERY APPARATUS
(73) ALLERGAN, INC.
(72) VOJAN, Vaclav
STREHL, Michael
DAVIS, Shawn R.
MICHAELIS, Ina
KREHER, Jessica
MUCIENTES, David
ROBINSON, Michael R.
BHAGAT, Rahul
VOGL, Maximilian
NOVAKOVIC, Zoran
(31) 201461944840 P
(32) 26.02.2014
(33) United States of America

(51) A61F 9/007
A61G 13/10
(11) EP3498240
(21) EP18150115.6
(47) 26.01.2022
(22) 02.01.2018
(54) A SYSTEM TO PROVIDE HUMIDIFIED CONTROLLED HIGH PRESSURE AIR DURING OCULAR SURGERY
(73) Yetik, Hüseyin
(72) Yetik, Hüseyin
(31) 201711044570
(32) 12.12.2017
(33) India

(51) A61F 13/06
B23D 57/00
(11) EP3562453
(21) EP17886632.3
(47) 26.01.2022
(87) US2017061925
05.07.2018
(22) 16.11.2017
(54) TOTAL CONTACT CAST SYSTEM AND METHODS FOR SAFE AND EASY REMOVAL THEREOF
(73) Woundkair Concepts, Inc.
(72) WILCOX, James R.
ANDERSON, Kimberly G.
ANDERSON, Danny E.
MAYHUGH, Timothy A.
SERENA, Thomas, E.
MORTON, Cameron B.
MORVEL, Stephen C.
(31) 201615390923
(32) 27.12.2016
(33) United States of America

(51) A61F 13/15
A61F 13/534
A61L 15/42
A61L 15/60
(11) EP3370664
(21) EP16805596.0
(47) 26.01.2022
(87) US2016060588
11.05.2017
(22) 04.11.2016
(54) ABSORBENT ARTICLE COMPRISING AN ABSORBENT STRUCTURE
(73) The Procter & Gamble Company
(72) HUBBARD JR., Wade, Monroe
DUVAL, Dean, Larry
BELLUCCI, Remo
MORROW, Clint, Adam
BEWICK-SONNTAG, Christopher, Philip
(31) 201562250825 P
(32) 04.11.2015
(33) United States of America

(51) A61F 13/491
A61F 13/471
A61F 13/496
A61F 13/49
A61F 13/53
A61F 13/68
(11) EP3600198
(21) EP17904296.5
(47) 26.01.2022
(87) SE2017050295
04.10.2018
(22) 28.03.2017
(54) DISPOSABLE PANT-TYPE ABSORBENT ARTICLE ADAPTED FOR A MALE USER
(73) Essity Hygiene and Health Aktiebolag
(72) ERIKSSON, Katarina
BÄCK, Lucas
KLINTE OLSSON, Anna

(51) A61F 13/494
A61F 13/15
(11) EP1933798
(21) EP06809595.9
(47) 26.01.2022
(87) IB2006053778
19.04.2007
(22) 13.10.2006
(54) ABSORBENT ARTICLE INCLUDING BARRIER LEG CUFF STRUCTURE AND ABSORBENT CORE WITH SUPERABSORBENT MATERIAL
(73) The Procter & Gamble Company
(72) SAUER, Andrew, James
ROE, Donald, Carroll
EHRNSPERGER, Bruno, Johannes
(31) 251311
(32) 14.10.2005
(33) United States of America

(51) A61F 13/514
A61F 13/47
C08J 5/18
A61F 13/56
A61L 15/58
A61F 13/472
(11) EP3503858
(21) EP16914327.8
(47) 26.01.2022
(87) SE2016050793
01.03.2018
(22) 24.08.2016
(54) ABSORBENT ARTICLE WITH BREATHABLE BACKSHEET
(73) ESSITY HYGIENE AND HEALTH AKTIEBOLAG
(72) JENSEN, Ida
KALENTUN, Pia
PERSSON, Ulrika

(51) A61G 1/01
A61G 1/048
A61G 7/10
(11) EP3705100
(21) EP20161620.8
(47) 26.01.2022
(22) 06.03.2020
(54) A DISPOSABLE MEDICAL DEVICE FOR LIFT AND TRANSFER OF PATIENTS
(73) Bericah SpA
(72) FERRI, Onorato Orlando
NORDIO, Marco
(31) 201900003421
(32) 08.03.2019
(33) Italy

(51) A61G 7/002
A61G 7/05
A61G 7/10
A61G 7/16
(11) EP3653187
(21) EP19217688.1
(47) 26.01.2022
(22) 02.12.2010
(54) PATIENT SUPPORT APPARATUSES WITH EXERCISE FUNCTIONALITIES
(73) Hill-Rom Services, Inc.
(72) TREES, Darin
(31) 28417809 P
(32) 14.12.2009
(33) United States of America

(51) A61H 1/00
A61H 23/00
(11) EP3628298
(21) EP18806753.2
(47) 26.01.2022
(87) JP2018019809
29.11.2018
(22) 23.05.2018
(54) HEALTH PROMOTION APPARATUS
(73) Sominoya, Inc.
(72) SUZURIKAWA Jun
MURASE Shuhei
AKISHITA Masahiro
INOUE Takenobu
KONISHI Aoi
TAKASHIMA Atsushi
MAEKAWA Takahiro
RYU Youngjae
SAWADA Yasuhiro
(31) 2017104095
(32) 26.05.2017
(33) Japan

(51) A61H 1/02
A61H 23/02
(11) EP3824862
(21) EP19720930.7
(47) 26.01.2022
(87) ES2019070201
13.02.2020
(22) 27.03.2019
(54) DEVICE FOR MASSAGING AND STRETCHING CERTAIN BODY PARTS
(73) Demac, S.A.
(72) DE LA TORRE BARREIRO, José Luis
(31) 201830816
(32) 09.08.2018
(33) Spain

(51) A61J 3/00
B65B 5/10
B65B 9/08
B65B 43/12
B65B 57/02

B65B 61/26
(11) EP3750521
(21) EP18905390.3
(47) 26.01.2022
(87) JP2018048330
15.08.2019
(22) 27.12.2018
(54) MEDICATION AUDITING SUPPORT SYSTEM
(73) FUJIFILM Toyama Chemical Co., Ltd.
(72) OKUTSU, Hirokazu
TOJO, Yu
(31) 2018022236
(32) 09.02.2018
(33) Japan

(51) A61J 7/02
G06M 1/28
A61J 1/03
(11) EP3746030
(21) EP19708134.2
(47) 26.01.2022
(87) FR2019050181
08.08.2019
(22) 29.01.2019
(54) DEVICE FOR DOSING OR COUNTING OBJECTS
(73) Stiplastics
(72) ZOCZEK, Guillaume
BROUARD, Hugues
SOUAL, Ludovic
(31) 1851986
1850772
(32) 07.03.2018
31.01.2018
(33) France
France

(51) A61J 11/00
(11) EP3720410
(21) EP18811801.2
(47) 26.01.2022
(87) EP2018083071
13.06.2019
(22) 30.11.2018
(54) TEAT FOR USE WITH A CONTAINER FOR CONTAINING A FLUID
(73) Koninklijke Philips N.V.
(72) JANSEN, Coen
SHASTRI, Narasimha
VAN DER KOOI, Johannes, Tseard
DEN DULK, Jacob, Cornelis, Paul
(31) 17206279
(32) 08.12.2017
(33) European Patent Office (EPO)

(51) A61K 8/06
A61K 8/73
A61Q 19/00
A61K 8/81
A61K 8/87
(11) EP3727279
(21) EP17823163.5
(47) 26.01.2022
(87) EP2017084551
27.06.2019
(22) 22.12.2017
(54) OIL-IN-WATER EMULSIFIED COSMETIC
(73) LVMH Recherche
(72) SAKODA, Takayoshi
KITAMURA, Miyako
OZAWA, Mai

(51) A61K 8/19
A61K 8/31
A61K 8/41
A61K 8/46
A61K 8/34
A61K 8/55
A61K 8/06
A61Q 5/04
(11) EP3393590
(21) EP15831215.7
(47) 26.01.2022
(87) BR2015050270
29.06.2017
(22) 23.12.2015
(54) COMPOSITION AND PROCESS FOR SHAPING OR ALTERING THE SHAPE OF HAIR
(73) L'Oréal
(72) AGUIAR, Sintia
BIATO, Camila Maciel
SATO, Bruno
PETALI, Erika Alegrio Jarque

(51) A61K 8/34
A61K 8/36
A61Q 13/00
A61K 8/86
A61K 8/19
A61Q 19/10
(11) EP3328981
(21) EP16733987.8
(47) 26.01.2022
(87) EP2016065648
02.02.2017
(22) 04.07.2016
(54) CLEANSING COMPOSITION WITH IMPROVED AVAILABILITY OF BENEFIT AGENT
(73) Unilever IP Holdings B.V.
(72) AGARKHED, Ajit, Manohar
KUMAR, Nitish
BANKAR, Pravin
(31) 2877MU2015
2876MU2015
2875MU2015
15189707
15189703
15189709
(32) 29.07.2015
29.07.2015
29.07.2015
14.10.2015
14.10.2015
14.10.2015
(33) India
India
India
European Patent Office (EPO)
European Patent Office (EPO)
European Patent Office (EPO)

(51) A61K 8/34
A61K 8/43
A61K 8/81
A61K 8/96
A61K 8/02
A61K 35/08
A61K 9/00
A61K 9/06
A61K 47/02
A61K 47/10
A61K 47/36
A61K 47/38
A61L 15/44
A61L 15/60
A61L 26/00
A61Q 7/00
(11) EP3697376
(21) EP18796774.0
(47) 26.01.2022
(87) IB2018058089
25.04.2019
(22) 18.10.2018
(54) COMPOSITION
(73) Water-Jel Europe LLP
(72) LAIT, Mark
(31) 201717224
201813442
(32) 20.10.2017
17.08.2018
(33) United Kingdom
United Kingdom

(51) A61K 8/36
A61Q 11/00
A61K 8/22
(11) EP3716940
(21) EP17825314.2
(47) 26.01.2022
(87) US2017063924
06.06.2019
(22) 30.11.2017
(54) ORAL CARE COMPOSITIONS
(73) Colgate-Palmolive Company
(72) FEI, Lin
CHOPRA, Suman
PAN, Guisheng

(51) A61K 8/39
A61Q 1/04
A61K 8/81
A61K 8/86
A61K 8/06
(11) EP3727305
(21) EP18833488.2
(47) 26.01.2022
(87) FR2018053337
27.06.2019
(22) 17.12.2018
(54) OIL-IN-WATER EMULSION FOR MAKING UP AND CARING FOR THE LIPS
(73) LVMH Recherche
(72) DUVERT, Amandine
FABRIS, Marine
DURTSCHI, Aurore
PREVOT, Aline
KURFURST, Chantal
(31) 1763099
(32) 22.12.2017
(33) France

(51) A61K 8/49
A61Q 3/02
(11) EP3709962
(21) EP18803350.0
(47) 26.01.2022
(87) EP2018080196
16.05.2019

(22) 05.11.2018
(54) ANHYDROUS COMPOSITION COSMETICALLY ACCEPTABLE FOR USE AS NAIL POLISH
(73) International Lacquers
(72) DEROSIER, Frédéric
DYLEWICZ, Carole
EDDOUMY, Fatima
CISNEROS, Robin
DEME, Alexandre
(31) 1760656
(32) 13.11.2017
(33) France

(51) A61K 9/00
A61K 9/16
A61K 31/713
A61K 47/24
A61K 47/36
A61K 47/38
A61P 31/16
A61P 11/00
A61P 31/04
A61P 31/12
A61P 37/04
C12N 15/117
(11) EP2846767
(21) EP13722334.3
(47) 26.01.2022
(87) EP2013059079
07.11.2013
(22) 02.05.2013
(54) POLYINOSINIC-POLYCYTIDYLIC ACID (POLY (I:C)) FORMULATIONS FOR THE TREATMENT OF UPPER RESPIRATORY TRACT INFECTIONS
(73) Janssen Sciences Ireland Unlimited Company
(72) MALCOLM, Bruce Albert
SUTMULLER, Roger Paulus Maria
BAERT, Lieven Elvire Colette
(31) 12166595
(32) 03.05.2012
(33) European Patent Office (EPO)

(51) A61K 9/00
A61K 47/10
A61K 47/36
A61K 31/546
A61P 15/14
A61P 31/00
(11) EP3370698
(21) EP16805561.4
(47) 26.01.2022
(87) US2016060015
11.05.2017
(22) 02.11.2016
(54) SOL-GEL POLYMER COMPOSITES AND USES THEREOF
(73) Zoetis Services LLC
(72) SANDERS, Tammy A.
ZOOK, Christopher A.
QUESNELL, Rebecca R.
HUCZEK, Dennis L.
SECREAST, Stephen L.
RAJAGOPALAN, Sumitra
KUJAWA, Piotr
LUO, Laibin
BAILLE, Wilms
(31) 201662315756 P
201562250126 P
(32) 31.03.2016
03.11.2015
(33) United States of America
United States of America

(51) A61K 9/00
A61P 35/00
A61K 31/4196
A61K 9/10
A61K 47/34
A61K 47/20
(11) EP2879661
(21) EP13742226.7
(47) 26.01.2022
(87) EP2013065877
06.02.2014
(22) 29.07.2013
(54) INJECTABLE COMPOSITIONS COMPRISING LETROZOLE OR ANASTROZOLE
(73) Laboratorios Farmacéuticos Rovi, S.A.
(72) GUTIERRO ADURIZ, Ibon
FRANCO RODRÍGUEZ, Guillermo
(31) 201231271
(32) 03.08.2012
(33) Spain

(51) A61K 9/08
A61K 31/42
A61K 47/18
A61P 33/14
(11) EP2658542
(21) EP11813330.5
(47) 26.01.2022
(87) EP2011073828
05.07.2012
(22) 22.12.2011
(54) TOPICAL LOCALIZED ISOXAZOLINE FORMULATION
(73) Intervet International B.V.
(72) WILLIAMS, Heike
FUCHS, Stefan
ZOLLER, Hartmut
HECKEROTH, Anja Regina
MÜLLER, Ramona
(31) 201161430240 P
10197089
(32) 06.01.2011
27.12.2010
(33) United States of America
European Patent Office (EPO)

(51) A61K 9/08
A61K 31/42
A61P 33/14
A61K 47/18
A61K 47/34
A01N 43/80
A01P 7/04
(11) EP2658541
(21) EP11799292.5
(47) 26.01.2022
(87) EP2011073830
05.07.2012
(22) 22.12.2011
(54) TOPICAL LOCALIZED ISOXAZOLINE FORMULATION COMPRISING GLYCOFUROL
(73) Intervet International B.V.
(72) MÜLLER, Ramona
FUCHS, Stefan
ZOLLER, Hartmut
HECKEROTH, Anja Regina
WILLIAMS, Heike
(31) 201161430241 P
10197090
(32) 06.01.2011
27.12.2010
(33) United States of America
European Patent Office (EPO)

(51) A61K 9/08
A61K 47/10
A61K 47/26
A61K 47/18
A61K 31/5575
(11) EP3714877
(21) EP20164602.3
(47) 26.01.2022
(22) 28.05.2009
(54) METHOD AND COMPOSITION FOR TREATING OCULAR HYPERTENSION AND GLAUCOMA
(73) Santen Pharmaceutical Co., Ltd.
AGC Inc.
(72) Oksala, Olli
Lehmussaari, Kari
Pellinen, Pertti
Reunamaki, Timo
(31) 08397513
(32) 30.05.2008
(33) European Patent Office (EPO)

(51) A61K 9/08
A61K 47/10
A61K 47/26
A61K 47/32
A61K 47/36
A61K 47/38
A61K 47/40
(11) EP3525885
(21) EP17860453.4
(47) 26.01.2022
(87) US2017056252
19.04.2018
(22) 12.10.2017
(54) ARTIFICIAL TEAR, CONTACT LENS AND DRUG VEHICLE COMPOSITIONS AND METHODS OF USE THEREOF
(73) PS Therapy Ltd.
(72) HORN, Gerald
(31) 201762563154 P
201762535380 P
201762519011 P
201762452045 P
201662428031 P
201662407271 P
(32) 26.09.2017
21.07.2017
13.06.2017
30.01.2017
30.11.2016
12.10.2016
(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

(51) A61K 9/10

A61K 47/10
A61K 47/18
A61K 47/20
A61K 31/57
(11) EP3423036
(21) EP17712834.5
(47) 26.01.2022
(87) IB2017051225
08.09.2017
(22) 02.03.2017
(54) MEDROXYPROGESTERONE ACETATE INJECTABLE COMPOSITIONS AND METHODS OF USE
(73) Teva Pharmaceutical Industries Ltd.
(72) SUNDARAMURTHI, Prakash
(31) 201662302290 P
(32) 02.03.2016
(33) United States of America

(51) A61K 9/107
A61P 27/02
A61K 47/34
(11) EP3344232
(21) EP16840475.4
(47) 26.01.2022
(87) CA2016051038
09.03.2017
(22) 01.09.2016
(54) MICELLES FOR MUCOADHESIVE DRUG DELIVERY
(73) Mcmaster University
(72) MUIRHEAD, Benjamin
PROSPERI-PORTA, Graeme
KEDZIOR, Stephanie
SHEARDOWN, Heather
(31) 201562212784 P
(32) 01.09.2015
(33) United States of America

(51) A61K 9/127
A61K 9/14
A61K 9/50
B05D 7/00
B32B 5/16
(11) EP3554478
(21) EP17882186.4
(47) 26.01.2022
(87) US2017066985
21.06.2018
(22) 18.12.2017
(54) LAYERED PARTICLES AND PROCESSES THEREOF
(73) Delphi Scientific, LLC
(72) PANAGIOTOU, Thomai
(31) 201662435514 P
(32) 16.12.2016
(33) United States of America

(51) A61K 9/14
A61K 31/40
B02C 19/06
(11) EP3689339
(21) EP20163697.4
(47) 26.01.2022
(22) 09.09.2016
(54) JET MILLING METHOD
(73) Vectura Limited
(72) GREEN, Matthew
MANFORD, Fergus
(31) 15184551
(32) 09.09.2015
(33) European Patent Office (EPO)

(51) A61K 9/16
A61K 31/437
A61P 35/00
A61P 35/04
(11) EP3424500
(21) EP17759210.2
(47) 26.01.2022
(87) CN2017075111
08.09.2017
(22) 28.02.2017
(54) PHARMACEUTICAL COMPOSITION COMPRISING FAMITINIB
(73) Jiangsu Hengrui Medicine Co., Ltd.
(72) LU, Yun
LIU, Tonghui
ZHANG, Xinhua
WANG, Chenyang
(31) 201610116472
(32) 01.03.2016
(33) China

(51) A61K 9/28
A61K 9/50
A61K 31/722
A61K 31/66
A61P 3/06
A61K 9/48
(11) EP2983644
(21) EP14716338.0
(47) 26.01.2022
(87) EP2014057243
16.10.2014
(22) 10.04.2014
(54) COMPOSITION CONTAINING A POLYAMINOGLYCOSIDE
(73) Labomar S.p.A.
(72) BERTIN, Walter
FRATTER, Andrea
(31) MI20130576
(32) 11.04.2013
(33) Italy

(51) A61K 9/51
A61K 8/98
A61K 8/02
A61K 31/337
A61K 31/704
A61P 35/00
A61P 17/00
(11) EP3638214
(21) EP18730780.6
(47) 26.01.2022
(87) EP2018065590
20.12.2018
(22) 13.06.2018
(54) NANOPARTICLES AS DELIVERY VEHICLES OF ACTIVE INGREDIENTS AND METHODS FOR THE PRODUCTION THEREOF
(73) Consiglio Nazionale Delle Ricerche
(72) VARCHI, Greta
GUERRINI, Andrea
ALUIGI, Annalisa
BALLESTRI, Marco
SOTGIU, Giovanna
(31) 201700067430
(32) 16.06.2017
(33) Italy

(51) A61K 31/00
A01N 43/40
A01N 57/16
A61P 31/04
C08F 220/36
A01P 1/00
C08F 230/02
C09D 5/14
C09D 133/14
C09D 143/02
C25D 11/26
C25D 11/30
C25D 11/34
(11) EP3525776
(21) EP17862060.5
(47) 26.01.2022
(87) US2017056889
26.04.2018
(22) 17.10.2017
(54) SURFACES WITH OLIGOMERIC OR POLYMERIC ANTIMICROBIALS
(73) Orthobond Corporation
(72) CLEVENGER, Randell
(31) 201662408912 P
(32) 17.10.2016
(33) United States of America

(51) A61K 31/12
A61K 31/685
A61K 33/06
A61K 47/54
A61P 1/02
A61P 1/18
A61P 3/04
A61P 3/06
A61P 7/00
A61P 11/00
A61P 17/00
A61P 19/02
A61P 25/00
A61P 27/02
A61P 29/00
A61P 29/02
A61P 31/00
A61P 3/02
(11) EP3389644
(21) EP16875079.2
(47) 26.01.2022
(87) IN2016050444
22.06.2017
(22) 16.12.2016
(54) TRI-MOLECULAR COMPLEX OF NATURAL COMPOUNDS
(73) Parachur, Vivek Anand
(72) Nirvanashetty, Somashekara
Parachur, Vivek Anand
(31) 6738CH2015
(32) 16.12.2015
(33) India

(51) A61K 31/337
A61K 38/15
A61K 31/472
A61K 31/495
A61K 45/06
A61K 9/00
A61P 35/00
(11) EP3532059
(21) EP17864117.1
(47) 26.01.2022
(87) US2017058614

03.05.2018
(22) 26.10.2017
(54) BROMODOMAIN AND EXTRA-TERMINAL PROTEIN INHIBITOR COMBINATION THERAPY
(73) Celgene Quanticel Research, Inc.
(72) STAFFORD, Jeffrey Alan
CHO, Robert
(31) 201762560840 P
201662413763 P
(32) 20.09.2017
27.10.2016
(33) United States of America
United States of America

(51) A61K 31/415
A61P 35/00
A61P 37/00
C07D 231/10
(11) EP3554499
(21) EP17879816.1
(47) 26.01.2022
(87) US2017064986
21.06.2018
(22) 07.12.2017
(54) AMINOPYRAZOLES AS JANUS KINASE INHIBITORS
(73) Merck Sharp & Dohme Corp.
(72) CLOSE, Joshua
FULLER, Peter
YOUNG, Jonathan
ZENG, Hongbo
BRUBAKER, Jason
(31) 201662434142 P
(32) 14.12.2016
(33) United States of America

(51) A61K 31/4184
A61K 47/69
A61K 47/40
A61K 9/00
A61K 9/19
C07D 235/16
A61P 35/00
A61P 35/02
A61P 37/00
A61P 37/02
(11) EP3318284
(21) EP17208980.7
(47) 26.01.2022
(22) 14.09.2012
(54) PHARMACEUTICAL COMPOSITION COMPRISING AN HDAC INHIBITOR AND A CYCLOPOLYSACCHARIDE
(73) EURO-CELTIQUE S.A.
(72) Feng, Feiyu
Guo, Dianwu
Yang, Lan
Ge, Qiufu
Chen, Yu
Chen, Yi
(31) 201261602408 P
201161536038 P
(32) 23.02.2012
18.09.2011
(33) United States of America
United States of America

(51) A61K 31/426
A61P 37/06
A61P 17/06
A61P 3/10
A61P 35/00
A61P 35/04
A61P 11/06
A61P 19/02
A61P 13/12
A61P 11/02
A61P 27/02
A61P 17/00
A61P 25/00
A61P 1/00
A61P 1/04
(11) EP3256125
(21) EP15807916.0
(47) 26.01.2022
(87) EP2015079208
16.06.2016
(22) 10.12.2015
(54) DOSING REGIMEN FOR PONESIMOD, A SELECTIVE S1P1 RECEPTOR AGONIST
(73) Actelion Pharmaceuticals Ltd
(72) KRAUSE, Andreas
DINGEMANSE, Jasper
HOCH, Matthias
(31) PCT/EP2015/058202
PCT/EP2014/077469
(32) 15.04.2015
11.12.2014
(33) World Intellectual Property Office (WIPO)
World Intellectual Property Office (WIPO)

(51) A61K 31/436
A61K 47/26
A61K 9/14
A61K 9/16
(11) EP3738592
(21) EP20183293.8
(47) 26.01.2022
(22) 07.10.2014
(54) RAPAMYCIN FOR THE TREATMENT OF LYMPHANGIOLEIOMYOMATOSIS
(73) AI Therapeutics, Inc.
(72) ARMER, Thomas
MELVIN, Jr Lawrence S.
LICHENSTEIN, Henri
ROTHBERG, Jonathan, M.
(31) 201361888066 P
(32) 08.10.2013
(33) United States of America

(51) A61K 31/445
A61K 31/728
A61K 8/49
A61K 8/73
A61Q 19/08
A61P 1/02
A61P 17/00
A61P 17/02
A61P 17/16
A61P 17/18
A61P 19/00
A61P 23/00
(11) EP3574901
(21) EP19180298.2
(47) 26.01.2022
(22) 29.07.2014
(54) INJECTION DEVICES COMPRISING A COMPOSITION OF HYALURONIC ACID AND MEPIVACAINE HYDROCHLORIDE
(73) Teoxane
(72) BOURDON, François
MEUNIER, Stéphane
(31) 201313954360
(32) 30.07.2013
(33) United States of America

(51) A61K 31/451
A61K 9/20
A61K 9/28
A61K 9/48
A61P 21/00
(11) EP3512506
(21) EP17851614.2
(47) 26.01.2022
(87) US2017051803
22.03.2018
(22) 15.09.2017
(54) USE OF PRIDOPIDINE FOR TREATING RETT SYNDROME
(73) Prilenia Neurotherapeutics Ltd.
(72) LAUFER, Ralph
GEVA, Michal
HAYDEN, Michael
(31) 201662395854 P
(32) 16.09.2016
(33) United States of America

(51) A61K 31/4985
A61K 31/5383
A61K 31/55
A61P 25/00
C07D 471/16
C07D 471/18
A61K 31/485
A61K 31/137
A61K 45/06
(11) EP3658144
(21) EP18837299.9
(47) 26.01.2022
(87) US2018043102
31.01.2019
(22) 20.07.2018
(54) PYRIDOPYRROLOQUINOXALINE COMPOUNDS, THEIR COMPOSITIONS AND USES IN THERAPY
(73) Intra-Cellular Therapies, Inc.
(72) SNYDER, Gretchen
DAVIS, Robert
VANOVER, Kimberly
ZHENG, Hailin
MATES, Sharon
LI, Peng
(31) 201862647492 P
201762537292 P
(32) 23.03.2018
26.07.2017
(33) United States of America
United States of America

(51) A61K 31/519
A61P 3/00
(11) EP3138566
(21) EP16178739.5
(47) 26.01.2022
(22) 17.11.2004
(54) TREATMENT OF PHENYLKETONURIA WITH BH4
(73) BioMarin Pharmaceutical Inc.
(72) OPPENHEIMER, Daniel I
KAKKIS, Emil D

DORENBAUM, Alejandro
PRICE, Fredric D
(31) 520767 P
(32) 17.11.2003
(33) United States of America

(51) A61K 31/542
A61K 9/20
A61P 25/28
(11) EP3205343
(21) EP15848771.0
(47) 26.01.2022
(87) JP2015078688
14.04.2016
(22) 08.10.2015
(54) PHARMACEUTICAL COMPOSITION OF FUSED AMINODIHYDROTHIAZINE DERIVATIVE
(73) Eisai R&D Management Co., Ltd.
(72) KAZAMA, Kazuo
ARASE, Shuntaro
HORIE, Kanta
UEKI, Yosuke
NAGANE, Kentaro
ZAIMA, Yasuhiro
(31) 2014209289
(32) 10.10.2014
(33) Japan

(51) A61K 31/554
C07D 281/16
C07D 417/12
C07D 417/14
C07D 413/12
(11) EP3349761
(21) EP16847298.3
(47) 26.01.2022
(87) US2016051940
23.03.2017
(22) 15.09.2016
(54) HEPATITIS B CORE PROTEIN MODULATORS
(73) Indiana University Research and Technology Corporation
Assembly Biosciences, Inc.
(72) BURES, Mark
MAAG, Hans
TURNER, William
ARNOLD, Lee, Daniel
(31) 201562218815 P
(32) 15.09.2015
(33) United States of America

(51) A61K 31/64
A61P 29/00
A61K 9/20
C07D 487/04
(11) EP3113774
(21) EP15758877.3
(47) 26.01.2022
(87) US2015019037
11.09.2015
(22) 05.03.2015
(54) COMPOSITIONS OF GRAPIPRANT AND METHODS FOR USING THE SAME
(73) Elanco Animal Health Incorporated
(72) DEVARAJ, Gopinath
SHIRAISHI, Akemi
RAUSCH-DERRA, Lesley
NEWBOLD, Tamara
(31) 201462089713 P
201461948957 P
(32) 09.12.2014
06.03.2014
(33) United States of America
United States of America

(51) A61K 31/6615
A61K 33/14
A61P 35/00
A61K 31/047
(11) EP3427740
(21) EP18305865.0
(47) 26.01.2022
(22) 02.07.2018
(54) NOVEL CANCER TREATMENT WITH A COMBINATION OF INOSITOL PHOSPHATE DERIVATIVE AND MAGNESIUM CHLORIDE
(73) Parc, Guy
(72) Parc, Guy
(31) 1756494
(32) 10.07.2017
(33) France

(51) A61K 31/69
A61K 31/519
A61P 29/00
A61P 17/00
A61P 17/06
A61P 17/08
A61P 43/00
A61K 9/00
A61K 9/06
A61K 47/10
(11) EP3685840
(21) EP19822182.2
(47) 26.01.2022
(87) CN2019086094
26.12.2019
(22) 09.05.2019
(54) COMBINATIONS OF TOFACITINIB AND CRISABOROLE FOR USE IN TREATING INFLAMMATORY SKIN DISEASES
(73) HEFEI AMVITE PHARMACEUTICAL CO., LTD
HEFEI INDUSTRIAL PHARMACEUTICAL INSTITUTE CO., LTD.
(72) MO, Jiajia
SHAO, Li
ZHAO, Yan
BIAN, Lincui
XU, Qinlong
HE, Guangwei
CHU, Zhaoxing
GU, Yuanfeng
(31) 201810637196
(32) 20.06.2018
(33) China

(51) A61K 31/7004
A61K 31/702
A61K 8/73
A61K 8/60
A61K 31/7032
A61P 17/14
A61P 43/00
A61Q 7/00
C12N 15/09
C12Q 1/06
C12Q 1/68
(11) EP3222269
(21) EP15861022.0
(47) 26.01.2022
(87) JP2015004439
26.05.2016
(22) 01.09.2015
(54) HAIR PAPILLA CELL ACTIVATOR
(73) Ezaki Glico Co., Ltd.
(72) KOBAYASHI, Takatsugu
(31) 2014235352
(32) 20.11.2014
(33) Japan

(51) A61K 31/7004
A61P 31/16
A61K 9/00
(11) EP3634428
(21) EP18833069.0
(47) 26.01.2022
(87) EP2018097060
08.08.2019
(22) 28.12.2018
(54) MEDICAMENT FOR PREVENTION OR TREATMENT OF RHINOVIRUS INFECTION
(73) Medizinische Universität Wien
(72) STÖCKL, Johannes
GUALDONI, Guido
(31) 18154088
(32) 30.01.2018
(33) European Patent Office (EPO)

(51) A61K 31/7008
A61K 31/7084
A61K 31/737
A61K 35/32
A61K 45/06
A61P 19/02
(11) EP2944312
(21) EP14168626.1
(47) 26.01.2022
(22) 16.05.2014
(54) COMBINATION PREPARATION, COMPRISING GLUCOSAMINE AND CHONDROITIN SULPHATE
(73) TP Tumapharma Ltd
(72) Huber, Johannes

(51) A61K 31/7115
A61P 37/04
A61P 31/12
A61P 31/04
A61P 35/00
A61P 37/06
A61P 37/08
C07H 21/00
C12N 15/117
A61K 45/06
A61K 31/7105
A61P 25/00
A61P 31/00
A61P 33/00
A61P 37/00
A61P 37/02
A61P 43/00
(11) EP3342415
(21) EP17194752.6
(47) 26.01.2022
(22) 08.08.2007

(54) STRUCTURE AND USE OF 5' PHOSPHATE OLIGONUCLEOTIDES
(73) Rheinische Friedrich-Wilhelms-Universität Bonn
(72) HARTMANN, Gunther
HORNUNG, Veit
(31) 06021271
06016578
(32) 10.10.2006
08.08.2006
(33) European Patent Office (EPO)
European Patent Office (EPO)

(51) A61K 31/728
A61P 27/04
(11) EP3525799
(21) EP17817868.7
(47) 26.01.2022
(87) IB2017001364
19.04.2018
(22) 02.10.2017
(54) METHOD FOR ESTABLISHING, RESTORING, AND PRESERVING HOMEOSTASIS OF THE OCULAR SURFACE
(73) i.com Medical GmbH
(72) MULLER-LIERHEIM, Wolfgang, Georg, Konrad
VAN SETTEN, Gysbert-Botho
(31) 201762516911 P
201662408559 P
(32) 08.06.2017
14.10.2016
(33) United States of America
United States of America

(51) A61K 31/785
A61P 3/00
A61P 13/12
(11) EP3698799
(21) EP18869094.5
(47) 26.01.2022
(87) JP2018038465
25.04.2019
(22) 16.10.2018
(54) HYPERPHOSPHATEMIA TREATMENT AGENT
(73) Kyowa Kirin Co., Ltd.
FUJIFILM Corporation
(72) KONDO Yuichiro
YOSHIDA Hayato
TOKUOKA Shinsuke
(31) 2018121071
2017252895
2017200016
(32) 26.06.2018
28.12.2017
16.10.2017
(33) Japan
Japan
Japan

(51) A61K 35/50
A61K 9/00
A61P 11/00
A61P 11/06
(11) EP3468571
(21) EP17737937.7
(47) 26.01.2022
(87) US2017037251
21.12.2017
(22) 13.06.2017
(54) AMNIOTIC FLUID FORMULATION FOR TREATMENT OF LUNG DISORDERS
(73) Mam Holdings Of West Florida, L.L.C.
(72) HARRELL, Carl, Randall
(31) 201615290271
201662349352 P
(32) 11.10.2016
13.06.2016
(33) United States of America
United States of America

(51) A61K 35/768
C07K 16/18
A61K 35/765
A61K 9/00
A61K 47/02
A61K 9/08
A61K 35/761
A61K 35/763
A61K 35/766
C07K 14/535
C07K 16/28
C12N 9/10
C12N 9/80
A61K 45/06
(11) EP3552615
(21) EP19174121.4
(47) 26.01.2022
(22) 16.07.2015
(54) ONCOLYTIC VIRUS FOR EXPRESSION OF IMMUNE CHECKPOINT MODULATORS
(73) Transgene SA
(72) GEIST, Michel
SILVESTRE, Nathalie
MARCHAND, Jean-Baptiste
RITTNER, Karola
THIOUDELLET, Christine
(31) 14306153
(32) 16.07.2014
(33) European Patent Office (EPO)

(51) A61K 36/537
A61P 17/02
(11) EP3727414
(21) EP18825639.0
(47) 26.01.2022
(87) EP2018085067
27.06.2019
(22) 14.12.2018
(54) SALVIA HAENKEI EXTRACT AS AN ACTIVE AGENT IN TISSUE RE-EPITHELIZING AND CICATRIZING PROCESSES
(73) Altergon S.a.
(72) GIORI, Andrea Maria
MONTOPOLI, Monica
CADAU, Jessica
ALIMONTI, Andrea
(31) 201700146620
(32) 19.12.2017
(33) Italy

(51) A61K 38/00
A61P 29/00
A61P 37/06
C07K 7/64
C07K 14/705
(11) EP3454880
(21) EP17725898.5
(47) 26.01.2022
(87) EP2017061233
16.11.2017
(22) 10.05.2017
(54) AGONIST AGENTS OF CD47 INDUCING PROGRAMMED CELL DEATH AND THEIR USE IN THE TREATMENTS OF DISEASES ASSOCIATED WITH DEFECTS IN PROGRAMMED CELL DEATH
(73) SORBONNE UNIVERSITE
Centre National de la Recherche Scientifique
(72) KAROYAN, Philippe
(31) 16305543
(32) 10.05.2016
(33) European Patent Office (EPO)

(51) A61K 38/17
A61K 39/00
A61P 7/06
A61P 19/10
(11) EP3581196
(21) EP18177441.5
(47) 26.01.2022
(22) 13.06.2018
(54) INHIBITORS OF THE TRANSFERRIN RECEPTOR-2 FOR USE IN THE TREATMENT OF OSTEOPOROSIS
(73) Kymab Limited
(72) PLATZBECKER, Prof. Dr. Uwe
RAUNER, Dr. Martina
Baschant, Dr. Ulrike
HOFBAUER, Prof. Dr. Lorenz C.

(51) A61K 39/02
C07K 16/12
(11) EP3389704
(21) EP16822409.5
(47) 26.01.2022
(87) EP2016081157
22.06.2017
(22) 15.12.2016
(54) VACCINATION AGAINST DIABETES, OBESITY AND COMPLICATIONS THEREOF
(73) Institut National de la Santé et de la Recherche Médicale (INSERM)
Centre Hospitalier Universitaire de Toulouse
Université Paul Sabatier Toulouse III
(72) GARIDOU, Lucile
BLASCO-BAQUE, Vincent
BURCELIN, Rémy
(31) 15307004
(32) 15.12.2015
(33) European Patent Office (EPO)

(51) A61K 39/04
A61K 39/12
A61K 39/02
(11) EP3558351
(21) EP17828754.6
(47) 26.01.2022
(87) EP2017084376
28.06.2018
(22) 22.12.2017
(54) COMBINATION VACCINE FOR SWINE
(73) Intervet International B.V.
(72) JANSEN, Theodorus
WITVLIET, Maarten, Hendrik

(31) 17157828
16206789
(32) 24.02.2017
23.12.2016
(33) European Patent Office (EPO)
European Patent Office (EPO)

(51) A61K 39/08
A61K 8/64
A61P 17/10
A61P 1/00
A61P 37/00
A61P 17/02
A61P 25/00
A61M 5/178
A61Q 19/08
(11) EP3368071
(21) EP16860952.7
(47) 26.01.2022
(87) US2016059492
04.05.2017
(22) 28.10.2016
(54) INJECTABLE BOTULINUM TOXIN FORMULATIONS AND METHODS OF USE THEREOF HAVING LONG DURATION OF THERAPEUTIC OR COSMETIC EFFECT
(73) ReVance Therapeutics, Inc.
(72) WAUGH, Jacob M.
RUEGG, Curtis L.
(31) 201562248255 P
(32) 29.10.2015
(33) United States of America

(51) A61K 39/385
A61K 39/39
A61P 35/00
A61K 39/00
(11) EP3283105
(21) EP16779340.5
(47) 26.01.2022
(87) AU2016050275
20.10.2016
(22) 15.04.2016
(54) A VACCINE COMPOSITION AND USES THEREOF
(73) Biolife Science Qld Limited
(72) WIEDERMANN, Ursula
(31) 2015901375
(32) 17.04.2015
(33) Australia

(51) A61K 47/02
A61K 36/49
A61K 9/00
A61P 17/00
A61P 19/10
A61K 47/06
A61K 9/06
A61K 9/08
A61K 9/10
A61K 9/48
A61P 17/02
A61P 29/00
A61P 31/04
A61P 31/12
(11) EP2600881
(21) EP11754543.4
(47) 26.01.2022
(87) IT2011000288
09.02.2012
(22) 03.08.2011
(54) NATURAL MEDICINAL COMPOUND
(73) LT NATURAL GROUP S.R.L.
(72) BIGNETTI, Guido
PIGNACCA, Michele
ROSSI, Pierenrico
MERCORELLA, Giovanni
GRAZIANI, Rodolfo
(31) CR20100025
(32) 05.08.2010
(33) Italy

(51) A61K 47/32
A61F 2/16
A61F 9/00
(11) EP2303331
(21) EP09790618.4
(47) 26.01.2022
(87) US2009051103
28.01.2010
(22) 20.07.2009
(54) OPHTHALMIC DEVICE HAVING THERAPEUTIC AGENT DELIVERY CAPABILITY AND METHOD OF FORMING SAME
(73) Alcon Inc.
(72) TSAI, Chi-Chun
THOMES, Brett, E.
VAN NOY, Stephen, J.
(31) 82352 P
(32) 21.07.2008
(33) United States of America

(51) A61K 47/58
C07K 1/107
A61K 38/00
(11) EP3003342
(21) EP14804414.2
(47) 26.01.2022
(87) US2014040319
04.12.2014
(22) 30.05.2014
(54) ENZYME-CATALYZED SYNTHESIS OF SITE-SPECIFIC AND STOICHIOMETRIC BIOMOLECULE-POLYMER CONJUGATES
(73) Duke University
(72) QI, Yizhi
CHILKOTI, Ashutosh
(31) 201361828873 P
(32) 30.05.2013
(33) United States of America

(51) A61K 47/60
C07K 14/505
(11) EP3731873
(21) EP18830893.6
(47) 26.01.2022
(87) EP2018097125
04.07.2019
(22) 28.12.2018
(54) PROCESS FOR PROVIDING PEGYLATED PROTEIN COMPOSITION
(73) F. Hoffmann-La Roche AG
(72) KOEHNLEIN, Wolfgang
(31) 17211122
(32) 29.12.2017
(33) European Patent Office (EPO)

(51) A61K 49/18
(11) EP3363467
(21) EP17205645.9
(47) 26.01.2022
(22) 06.12.2017
(54) A COMPOSITION FOR USE IN MEDICAL IMAGING AND A METHOD OF PREPARATION THEREOF
(73) JBM Research Laboratory Limited
(72) CHENG, Kwok Kin
KWOK, Connie Sau-Kuen
(31) 201715831661
201715436922
(32) 05.12.2017
20.02.2017
(33) United States of America
United States of America

(51) A61K 51/04
A61K 101/02
C07D 213/82
C07B 59/00
(11) EP3481437
(21) EP17811189.4
(47) 26.01.2022
(87) DE2017100986
24.05.2018
(22) 17.11.2017
(54) PRECURSORS FOR RADIOFLUORINATION
(73) ABX Advanced Biochemical Compounds GmbH
(72) HESSE, Ronny
HÜBNER, Sandra
HOEPPING, Alexander
MARTIN, René
MÜLLER, Marco
SMITS, René
(31) 102016122273
(32) 18.11.2016
(33) Germany

(51) A61L 2/04
H05B 6/36
B01L 9/00
(11) EP2797637
(21) EP12813208.1
(47) 26.01.2022
(87) US2012070807
04.07.2013
(22) 20.12.2012
(54) METHODS AND APPARATUS TO REDUCE BIOLOGICAL CARRYOVER USING INDUCTION HEATING
(73) ABBOTT LABORATORIES
(72) WESTON, Brad
MITCHELL, Jeffrey
(31) 201161580913 P
(32) 28.12.2011
(33) United States of America

(51) A61L 2/14
A61N 1/44
A61C 19/06
A61C 17/02
A61C 17/00
(11) EP3411085
(21) EP17703727.2
(47) 26.01.2022
(87) EP2017052425
10.08.2017
(22) 03.02.2017

(54) DEVICE AND METHOD FOR TREATING OBJECTS, IN PARTICULAR DENTAL PROSTHETICS AND/OR TEETH
(73) terraplasma GmbH
(72) ZIMMERMANN, Julia
MORFILL, Gregor
CANTZLER, Maximilian
WEILEMANN, Hannes
LI, Yangfang
BINDER, Sylvia
SHIMIZU, Tetsuji
(31) 102016201818
(32) 05.02.2016
(33) Germany

(51) A61L 15/42
A61L 15/44
A61L 15/60
(11) EP3666295
(21) EP19216246.9
(47) 26.01.2022
(22) 13.12.2019
(54) RESILIENT WOUND DRESSING
(73) Advanced Medical Solutions Limited
(72) Bradford, Colin Raymond
Hamerslagh, Brian John
Bugedo-Albizuri, Ander
(31) 201820369
(32) 13.12.2018
(33) United Kingdom

(51) A61L 26/00
(11) EP3706814
(21) EP18803788.1
(47) 26.01.2022
(87) IB2018058681
16.05.2019
(22) 05.11.2018
(54) HEMOSTATIC PASTE HAVING SURFACE ENRICHED WITH HEMOSTASIS-PROMOTING AGENTS AND DEVICES FOR DELIVERY
(73) Ethicon, Inc.
(72) KRIKSUNOV, Leo B.
WANG, Yi-Lan
(31) 201715807068
(32) 08.11.2017
(33) United States of America

(51) A61L 27/36
(11) EP3052154
(21) EP14780841.4
(47) 26.01.2022
(87) EP2014071157
09.04.2015
(22) 02.10.2014
(54) BONE REGENERATION MATERIAL AND MANUFACTURE METHOD THEREOF
(73) Wishbone
(72) ROMPEN, Eric
LECLOUX, Geoffrey
MONIOTTE, Philippe
LAMBERT, France
(31) 201300660
(32) 03.10.2013
(33) Belgium

(51) A61L 27/38
A61L 27/22
A61L 27/52
C12M 3/00
C12M 3/06
C12N 5/077
(11) EP3672652
(21) EP18755482.9
(47) 26.01.2022
(87) EP2018072658
28.02.2019
(22) 22.08.2018
(54) ARTIFICIAL CARTILAGE AND METHOD FOR ITS PRODUCTION
(73) Veterinärmedizinische Universität Wien
Technische Universität Wien
(72) ROSSER, Julie
ERTL, Peter
JENNER, Florien
(31) 17187267
(32) 22.08.2017
(33) European Patent Office (EPO)

(51) A61M 1/14
A61M 1/16
A61M 5/168
(11) EP3445418
(21) EP17716550.3
(47) 26.01.2022
(87) EP2017058706
26.10.2017
(22) 11.04.2017
(54) MEDICAL TREATMENT DEVICE AND METHOD FOR MONITORING A MEDICAL TREATMENT DEVICE
(73) Fresenius Medical Care Deutschland GmbH
(72) NOACK, Joachim
(31) 102016004908
(32) 22.04.2016
(33) Germany

(51) A61M 1/16
(11) EP3694574
(21) EP17788174.5
(47) 26.01.2022
(87) EP2017075930
18.04.2019
(22) 11.10.2017
(54) DIALYSIS MACHINES AND METHODS OF DISINFECTING A DIALYSIS MACHINE
(73) Gambro Lundia AB
(72) JANSSON, Olof
MARTINSON, Evi
STERNBY, Jan
HOBRO, Sture
HERTZ, Thomas
JEPPSSON, Helena

(51) A61M 1/36
(11) EP3349823
(21) EP16775490.2
(47) 26.01.2022
(87) EP2016071719
23.03.2017
(22) 14.09.2016
(54) MAGNETIC FILTER APPARATUS
(73) Medisieve Ltd
(72) HATTERSLEY, Simon Richard
WENMAN, Richard Alan
PANKHURST, Quentin Andrew
FRODSHAM, George Charles Martin
(31) 201562218211 P
(32) 14.09.2015
(33) United States of America

(51) A61M 5/142
A61M 25/02
A61M 5/14
A61M 5/158
(11) EP2155299
(21) EP07847877.3
(47) 26.01.2022
(87) EP2007063389
13.11.2008
(22) 06.12.2007
(54) DELIVERY DEVICE
(73) Unomedical A/S
(72) MATHIASEN, Orla
GYRN, Steffen
PEDERSEN, Tenna, M.
(31) 928025 P
(32) 07.05.2007
(33) United States of America

(51) A61M 5/155
A61M 5/20
A61M 5/142
A61M 3/02
A61M 5/145
F04B 9/12
(11) EP3581220
(21) EP19182464.8
(47) 26.01.2022
(22) 06.05.2016
(54) PRESSURE CONTAINER FOR DRIVING A MEDICAL DEVICE
(73) Sanofi-Aventis Deutschland GmbH
(72) UTH, Tobias
NESSEL, Christian
HAMMEN, Florian
DEXHEIMER, Christian
(31) 15166871
(32) 08.05.2015
(33) European Patent Office (EPO)

(51) A61M 5/20
A61M 5/24
A61M 5/315
A61M 5/31
(11) EP3322461
(21) EP16735651.8
(47) 26.01.2022
(87) EP2016065807
19.01.2017
(22) 05.07.2016
(54) PEN-TYPE DRUG INJECTOR WITH END-OF-DOSE SENSOR AND SYSTEM FOR REGISTERING THE DELIVERED DOSE
(73) Novo Nordisk A/S
(72) KIILERICH, Ebbe
WINDUM, Jesper Peter
PLAMBECH, Christian
(31) 15176383
(32) 13.07.2015
(33) European Patent Office (EPO)

(51) A61M 15/08
A61M 16/06
A61M 35/00
A61F 13/40
(11) EP3146991
(21) EP15186945.0
(47) 26.01.2022
(22) 25.09.2015

(54) IMPROVED PATIENT INTERFACE COMPONENT
(73) ResMed Pty Ltd
(72) Lang, Bernd
Eibl, Robert
Burz, Sebastian
Nickol, Johannes
Reiser, Anne Claude Andrée Armelle
Rothfuß, Jens
Kirchberger, Andreas
Bayer, Christian
(51) A61M 16/08
G01F 23/292
(11) EP3452156
(21) EP17713852.6
(47) 26.01.2022
(87) US2017022643
09.11.2017
(22) 16.03.2017
(54) APPARATUS FOR DETECTING LIQUID LEVEL IN A CLEAR OR PARTIALLY CLEAR CONTAINER
(73) Mallinckrodt Pharmaceuticals Ireland Limited
(72) BIBA, Scott, I.
(31) 201662331117 P
(32) 03.05.2016
(33) United States of America
(51) A61M 16/16
A61M 16/00
A61M 16/08
A61M 16/10
(11) EP3797815
(21) EP20197695.8
(47) 26.01.2022
(22) 23.09.2020
(54) RESPIRATORY SYSTEM
(73) Apex Medical Corp.
(72) CHIEN, Chih-Tsan
YAO, Jhih-Teng
KAN, Tsung-Chung
LIN, Chun-Yen
CHAN, Hao-Yu
LIN, Chung-Yi
(31) 108135108
(32) 27.09.2019
(33) Taiwan, Province of China
(51) A61M 25/00
A61M 1/36
(11) EP3668578
(21) EP18734133.4
(47) 26.01.2022
(87) EP2018065922
21.02.2019
(22) 15.06.2018
(54) DIALYSIS CATHETER, IN PARTICULAR FOR LONG-TERM USE
(73) Joline GmbH & Co. KG
(72) SEIDENBERGER, Dieter
(31) 102017118819
(32) 17.08.2017
(33) Germany
(51) A61M 25/01
(11) EP3285846
(21) EP16717045.5
(47) 26.01.2022
(87) US2016025807
27.10.2016
(22) 04.04.2016
(54) ASSEMBLIES FOR DEFLECTABLE SHAFT CATHETERS
(73) Medtronic Inc.
(72) DRAKE, Ronald A.
STENER, Lester O.
(31) 201514694579
(32) 23.04.2015
(33) United States of America
(51) A61M 25/10
A61B 1/31
A61B 1/018
(11) EP2683437
(21) EP12754885.7
(47) 26.01.2022
(87) IL2012000003
13.09.2012
(22) 05.01.2012
(54) BALLOON-EQUIPPED ENDOSCOPIC DEVICES AND METHODS THEREOF
(73) Smart Medical Systems Ltd.
(72) TERLIUC, Gad
LURIA, Gilad
(31) 201161457351 P
(32) 07.03.2011
(33) United States of America
(51) A61M 25/10
A61M 25/00
(11) EP3127576
(21) EP15773663.8
(47) 26.01.2022
(87) JP2015060038
08.10.2015
(22) 31.03.2015
(54) BALLOON CATHETER
(73) Toray Industries, Inc.
(72) MATSUKUMA, Akinori
KAMEMOTO, Chigusa
TAKAOKA, Motoki
YAGI, Takahiro
(31) 2014072606
(32) 31.03.2014
(33) Japan
(51) A61M 35/00
A61H 33/14
A61H 35/00
(11) EP3842092
(21) EP19219593.1
(47) 26.01.2022
(22) 24.12.2019
(54) A DEVICE FOR TRANSCUTANEOUS APPLICATION OF CARBON DIOXIDE
(73) Derma art d.o.o.
(72) Vezoja, Daniel
Truden, Maja
(51) A61N 1/05
(11) EP3229889
(21) EP15813665.5
(47) 26.01.2022
(87) US2015064606
16.06.2016
(22) 09.12.2015
(54) EXTRAVASCULAR IMPLANTABLE ELECTRICAL LEAD HAVING UNDULATING CONFIGURATION
(73) Medtronic, Inc.
(72) NIKOLSKI, Vladimir P.
MARTINEZ, Gonzalo
OLSON, Nathan L.
SEIFERT, Kevin R.
MARSHALL, Mark T.
WHITMAN, Teresa A.
(31) 201562262408 P
201462089417 P
(32) 03.12.2015
09.12.2014
(33) United States of America
United States of America
(51) A61N 1/30
A61N 1/04
A61K 9/00
A61K 9/70
(11) EP3613465
(21) EP18787017.5
(47) 26.01.2022
(87) JP2018015962
25.10.2018
(22) 18.04.2018
(54) BIOTISSUE TRANSDERMAL PATCH
(73) Nippon Telegraph And Telephone Corporation
(72) NOHARA, Masaya
KOMATSU, Takeshi
IWATA, Mikayo
HAYASHI, Masahiko
(31) 2017084345
2017084340
(32) 21.04.2017
21.04.2017
(33) Japan
Japan
(51) A61N 1/36
(11) EP3503965
(21) EP17757767.3
(47) 26.01.2022
(87) EP2017071475
01.03.2018
(22) 25.08.2017
(54) TREATMENT OF CARDIAC DYSFUNCTION
(73) Galvani Bioelectronics Limited
The Regents of the University of California
(72) SRIDHAR, Arun
ARDELL, Jeffrey Laurence
SHIVKUMAR, Kalyanam
(31) 201662379937 P
(32) 26.08.2016
(33) United States of America
(51) A61N 1/362
A61N 1/365
(11) EP3562544
(21) EP17835685.3
(47) 26.01.2022
(87) EP2017084617
05.07.2018
(22) 27.12.2017
(54) AUTONOMOUS IMPLANTABLE CAPSULE FOR HEART STIMULATION
(73) Sorin CRM SAS
(72) REGNIER, Willy
(31) 201715479095
16306852
16306851
16306853
(32) 04.04.2017

30.12.2016
30.12.2016
30.12.2016
(33) United States of America
European Patent Office (EPO)
European Patent Office (EPO)
European Patent Office (EPO)

(51) A61N 5/10
H05H 3/06
G21K 5/10
(11) EP3736020
(21) EP20172982.9
(47) 26.01.2022
(22) 05.05.2020
(54) NEUTRON BEAM GENERATING DEVICE
(73) Heron Neutron Medical Corp.
(72) YEH, Jyi-Tyan
LIU, Yen-Wan Hsueh
YOU, Zhen-Fan
(31) 108115761
(32) 07.05.2019
(33) Taiwan, Province of China

(51) A61P 7/04
A61P 7/02
A61K 31/537
C07D 498/10
C07D 519/00
A61P 7/00
(11) EP3371162
(21) EP16860557.4
(47) 26.01.2022
(87) US2016058363
04.05.2017
(22) 24.10.2016
(54) MACROCYCLIC SPIROCARBAMATE DERIVATIVES AS FACTOR XIA INHIBITORS, PHARMACEUTICALLY ACCEPTABLE COMPOSITIONS AND THEIR USE
(73) Merck Sharp & Dohme Corp.
(72) ZHOU, Wei
ALI, Amjad
LIM, Yeon-Hee
XU, Jiayi
(31) 201562248268 P
(32) 29.10.2015
(33) United States of America

(51) A61P 31/04
A61P 31/10
A61P 31/12
A61P 35/00
C12N 5/0786
(11) EP3387115
(21) EP16808635.3
(47) 26.01.2022
(87) EP2016080187
15.06.2017
(22) 08.12.2016
(54) METHODS FOR EXPANDING A POPULATION OF ALVEOLAR MACROPHAGES IN A LONG TERM CULTURE
(73) Université d'Aix Marseille
INSERM (Institut National de la Santé et de la Recherche Médicale)
Centre National de la Recherche Scientifique (CNRS)
(72) GEIRSDOTTIR, Laufey
MOLAWI, Kaaweh
SIEWEKE, Michael
(31) 15306959
(32) 08.12.2015
(33) European Patent Office (EPO)

(51) A61P 31/14
A61K 38/47
A61K 9/16
A61K 9/20
C12N 9/36
(11) EP3108894
(21) EP15751488.6
(47) 26.01.2022
(87) JP2015055070
27.08.2015
(22) 23.02.2015
(54) NON-THERAPEUTIC METHOD OF DEACTIVATING NOROVIRUS, USE OF LYSOZYME COMPONENT FOR NON-THERAPEUTIC NOROVIRUS DEACTIVATION, AND LYSOZYME COMPONENT FOR USE IN THE PREVENTION OR TREATMENT OF NOROVIRUS INFECTION
(73) Kewpie Corporation
(72) SASAHARA, Ryo
TAKAHASHI, Hajime
SATO, Miki
MIYASHITA, Takashi
(31) 2014189487
2014157145
2014032313
(32) 17.09.2014
31.07.2014
21.02.2014
(33) Japan
Japan
Japan

(51) A61Q 1/02
A61K 8/73
A61Q 19/00
A61K 8/99
A61K 36/00
(11) EP3727594
(21) EP18845300.5
(47) 26.01.2022
(87) FR2018053502
27.06.2019
(22) 21.12.2018
(54) COSMETIC COMPOSITION COMPRISING A CAESALPINIA SPINOSA EXTRACT, A KAPPAPHYCUS ALVAREZII EXTRACT, AT LEAST ONE PREBIOTIC AND A PROBIOTIC
(73) L V M H RECHERCHE
(72) PELLICIER, Françoise
NOTTE, David
DUMAS, Marc
(31) 1763139
(32) 22.12.2017
(33) France

(51) A63B 60/54
(11) EP3727616
(21) EP18839881.2
(47) 26.01.2022
(87) IB2018060523
27.06.2019
(22) 21.12.2018
(54) VIBRATION DAMPING DEVICE FOR A SPORTS RACKET
(73) Cantelli, Michele
Pesci, Massimiliano
(72) Cantelli, Michele
Pesci, Massimiliano
(31) 201700148194
(32) 21.12.2017
(33) Italy

(51) A63C 7/06
A63C 7/02
A63C 5/12
(11) EP3437702
(21) EP17184631.4
(47) 26.01.2022
(22) 03.08.2017
(54) A CROSS COUNTRY SKI
(73) Míka, Vladimír
(72) Míka, Vladimír

(51) A63H 3/44
(11) EP3677323
(21) EP19212677.9
(47) 26.01.2022
(22) 29.11.2019
(54) CHARACTER FIGURE AND METHOD FOR ATTACHING HAIR TO CHARACTER FIGURE
(73) Spin Master Ltd.
(72) Ward, Mercedeh M.
Pope, Oliver L.
(31) 201916277665
201962788994 P
(32) 15.02.2019
07.01.2019
(33) United States of America
United States of America

(51) A63H 33/04
(11) EP3731944
(21) EP18845415.1
(47) 26.01.2022
(87) IB2018060707
04.07.2019
(22) 28.12.2018
(54) MAGNETIC BLOCKS WITH IMPROVED MAGNETIC PROPERTIES AND CONSTRUCTION SET THEREOF
(73) Khalus, Ivan
Berezovskyi, Oleh
(72) Berezovskyi, Oleh
Khalus, Ivan
(31) 201816232253
201762611606 P
(32) 26.12.2018
29.12.2017
(33) United States of America
United States of America

(51) A63J 5/02
A63H 27/00
A63H 30/04
(11) EP3698859
(21) EP20165722.8
(47) 26.01.2022
(22) 26.08.2015
(54) SPECIAL EFFECTS TECHNIQUES
(73) Universal City Studios LLC
(72) CORTELYOU, Robert J.
ZIELKOWSKI, Amanda

(31) 201514835468
201462042106 P
(32) 25.08.2015
26.08.2014
(33) United States of America
United States of America

(51) B01D 15/26
A23L 2/80
A23L 5/20
A23L 33/105
C11B 9/02
(11) EP3395422
(21) EP17167759.4
(47) 26.01.2022
(22) 24.04.2017
(54) REMOVAL OF METAL IONS FROM ESSENTIAL OILS
(73) Biotage AB
(72) JÖNSSON, Stig

(51) B01D 21/00
C02F 1/52
(11) EP2595716
(21) EP11770832.1
(47) 26.01.2022
(87) FI2011050667
26.01.2012
(22) 19.07.2011
(54) METHOD AND SYSTEM FOR MONITORING PROPERTIES OF AN AQUEOUS STREAM
(73) Kemira Oyj
(72) JOENSUU, Iiris
TUOMIVAARA, Seppo
SAARI, Eija
SIRVIÖ, Jukka-Pekka
PIIRONEN, Marjatta
(31) 20105813
(32) 20.07.2010
(33) Finland

(51) B01D 21/24
B01D 21/26
(11) EP2736621
(21) EP12754064.9
(47) 26.01.2022
(87) GB2012051817
31.01.2013
(22) 27.07.2012
(54) DEVICE AND METHOD FOR PRODUCING AND COLLECTING BEADS
(73) Midatech Pharma (Wales) Limited
(72) SHADICK, Owen Lesley
PALMER, Daniel David
BARTLEY, Stuart James
JOHN, Brynmor Alexander
(31) 201113007
(32) 28.07.2011
(33) United Kingdom

(51) B01D 46/00
B01D 53/04
B01D 46/30
(11) EP3456401
(21) EP18202343.2
(47) 26.01.2022
(22) 30.03.2015
(54) VENT FILTER
(73) Dometic Corporation
(72) Stork, Benjamin
McVay, Jeffry
(31) 201414242234
(32) 01.04.2014
(33) United States of America

(51) B01D 46/24
C04B 38/00
F01N 3/022
C04B 41/50
C04B 41/00
C04B 41/87
F01N 3/035
F01N 3/10
C04B 111/00
(11) EP3826753
(21) EP19749617.7
(47) 26.01.2022
(87) EP2019069960
30.01.2020
(22) 24.07.2019
(54) FILTER ELEMENT FOR A PARTICULATE FILTER, AND EXHAUST GAS PARTICULATE FILTER
(73) Audi AG
(72) TREMEL, Peter
(31) 102018212370
(32) 25.07.2018
(33) Germany

(51) B01D 53/00
B01D 7/02
(11) EP3500353
(21) EP17757836.6
(47) 26.01.2022
(87) GB2017052431
22.02.2018
(22) 17.08.2017
(54) APPARATUS AND METHOD FOR DESUBLIMING A TARGET COMPOUND SUCH AS CARBON DIOXIDE OR PHTHALIC ANHYDRIDE
(73) PMW Technology Ltd
(72) WILLSON, Paul
(31) 201614095
(32) 17.08.2016
(33) United Kingdom

(51) B01D 53/047
C01B 3/56
(11) EP3147019
(21) EP16188401.0
(47) 26.01.2022
(22) 12.09.2016
(54) METHOD AND DEVICE FOR SEPARATING A GAS MIXTURE ACCORDING TO A PRESSURE SWING ADSORPTION PROCESS
(73) Green Vision Holding B.V.
(72) Westendorp, Gerard
(31) 2015435
(32) 14.09.2015
(33) Netherlands

(51) B01F 5/04
B01J 4/00
(11) EP3565659
(21) EP18700054.2
(47) 26.01.2022
(87) EP2018050195
12.07.2018
(22) 04.01.2018
(54) DEVICE FOR INJECTING AND MIXING A REACTIVE FLUID IN HIGH PRESSURE LDPE PROCESSES
(73) SABIC Global Technologies B.V.
(72) BAI, Hua
MEGENS, Bas, Eugène, Hans
CASTANEDA ZUNIGA, Diego Mauricio
TOLOZA PORRAS, Carolina De Los Angeles
NIKKHOO, Mohsen
BODEGOM VAN, Robert Cornelis
(31) 201762492478 P
17150517
(32) 01.05.2017
06.01.2017
(33) United States of America
European Patent Office (EPO)

(51) B01F 7/16
B01F 7/00
B01F 13/10
C12M 1/00
C12M 1/06
C12M 1/02
(11) EP3623039
(21) EP19194965.0
(47) 26.01.2022
(22) 02.09.2019
(54) AGITATOR UNIT, SYSTEM AND METHOD
(73) BPC Instruments AB
(72) LIU, Jing
(31) 201821498440 U
1851081
(32) 13.09.2018
13.09.2018
(33) China
Sweden

(51) B01F 9/00
B01F 11/00
B01L 3/00
G01N 35/02
(11) EP3536395
(21) EP19171575.4
(47) 26.01.2022
(22) 27.12.2013
(54) METHODS AND APPARATUS TO MITIGATE BUBBLE FORMATION IN A LIQUID
(73) Abbott Laboratories
(72) LUOMA, Robert Paul
DAVIDSON, Cheryl L.
WESTON, Bradley
OCHRANEK, Brian
(31) 201313801451
(32) 13.03.2013
(33) United States of America

(51) B01J 3/00
C10G 31/08
C10G 75/00
(11) EP3370858
(21) EP16867374.7
(47) 26.01.2022
(87) US2016066367
22.06.2017
(22) 13.12.2016
(54) SUPERCRITICAL REACTOR SYSTEMS AND PROCESSES FOR PETROLEUM UPGRADING

(73) Saudi Arabian Oil Company
(72) CHOI, Ki-Hyouk
ALABDULHADI, Abdullah T.
ALABDULLAH, Mohammad A.
(31) 201562267406 P
(32) 15.12.2015
(33) United States of America

(51) B01J 19/00
B01F 13/10
(11) EP3142783
(21) EP15732341.1
(47) 26.01.2022
(87) IB2015053261
19.11.2015
(22) 05.05.2015
(54) MOVING SYSTEM FOR CONTAINERS BETWEEN STATIONS FOR A FLUID PRODUCTION PLANT
(73) Drocco, Luca
Drocco, Mario
(72) Drocco, Mario
Drocco, Luca
(31) TO20140379
(32) 13.05.2014
(33) Italy

(51) B01J 19/00
G05B 23/02
(11) EP3621726
(21) EP18722983.6
(47) 26.01.2022
(87) EP2018061657
15.11.2018
(22) 07.05.2018
(54) METHOD AND SYSTEM FOR MONITORING THE OPERATING CONDITIONS OF A SEMIBATCH REACTOR
(73) Mitec S.r.l. Società Di Ingegneria
(72) MAESTRI, Francesco
(31) 17170771
(32) 12.05.2017
(33) European Patent Office (EPO)

(51) B01J 20/02
B01J 20/28
B01J 20/14
B01J 20/20
B01J 20/30
B01D 53/14
(11) EP3437715
(21) EP17773565.1
(47) 26.01.2022
(87) JP2017002333
05.10.2017
(22) 24.01.2017
(54) OXYGEN SCAVENGER COMPOSITION
(73) Mitsubishi Gas Chemical Company, Inc.
(72) MIYABE, Yoshinobu
KAGIMOTO, Kouta
NARIKAWA, Ryoujyu
SUGIMOTO, Ken
IKEDA, Shinichi
(31) 2016068607
(32) 30.03.2016
(33) Japan

(51) B01J 20/26
B01J 20/28
B01J 20/285
B01J 20/30
B01J 20/32
(11) EP3444028
(21) EP18174330.3
(47) 26.01.2022
(22) 25.05.2018
(54) METHODS FOR PRODUCING THREE-DIMENSIONAL ORDERED POROUS MICROSTRUCTURE AND MONOLITHIC COLUMN PRODUCED THEREBY
(73) Tantti Laboratory Inc.
(72) Kuo, Yu-Cheng
Liao, Chen-Hung
Yang, Shih-Horng
Cheng, Yu
(31) 107105579
106128012
(32) 14.02.2018
17.08.2017
(33) Taiwan, Province of China
Taiwan, Province of China

(51) B01J 23/66
B01J 23/89
B01J 35/10
B01J 37/34
C25D 11/02
B01J 23/50
B01J 23/68
B01J 35/00
C25D 3/02
C25D 5/00
C25D 9/08
C23C 18/14
(11) EP3231512
(21) EP14894183.4
(47) 26.01.2022
(87) CN2014094286
02.06.2016
(22) 19.12.2014
(54) PREPARATION METHOD OF HIERARCHICAL POROUS MATERIAL
(73) Dalian Institute Of Chemical Physics, Chinese Academy Of Sciences
(72) YUAN, Lizhi
SUM, Gongquan
JIANG, Luhua
(31) 201410706344
201410697301
201410698615
201410697812
201410697811
(32) 27.11.2014
27.11.2014
27.11.2014
27.11.2014
27.11.2014
(33) China
China
China
China
China

(51) B01J 29/48
C07C 29/60
C07C 33/03
(11) EP3733635
(21) EP20171606.5
(47) 26.01.2022
(22) 27.04.2020
(54) SUSTAINABLE PRODUCTION OF ALLYL ALCOHOL: GAS-PHASE CONVERSION OF GLYCEROL OVER METALS PROMOTED ALUMINOSILICATE ZEOLITE CATALYSTS IN A FIXED-BED CONTINUOUS FLOW REACTOR
(73) Kemijski Institut
(72) Likozar, Blaz
Kostyniuk, Andrii
Bajec, David
(31) 101203
(32) 30.04.2019
(33) Luxembourg

(51) B01J 29/85
C01B 37/08
C01B 39/54
C07C 1/20
B01D 53/94
B01J 35/00
B01J 35/02
(11) EP3586960
(21) EP17897284.0
(47) 26.01.2022
(87) CN2017074985
30.08.2018
(22) 27.02.2017
(54) CU-SAPO MOLECULAR SIEVE, SYNTHESIS METHOD THEREFOR AND CATALYTIC USE THEREOF
(73) Dalian Institute Of Chemical Physics, Chinese Academy of Sciences
(72) TIAN, Peng
XIANG, Xiao
CAO, Lei
LIU, Zhongmin

(51) B01J 37/02
B01J 37/30
B01J 37/26
B01J 37/24
B01J 37/08
B01J 37/00
B01J 37/06
B01J 23/42
B01J 29/62
B01J 23/58
C07C 5/32
C07C 5/41
C10G 35/095
C10G 45/70
(11) EP3558519
(21) EP17829782.6
(47) 26.01.2022
(87) US2017066257
28.06.2018
(22) 14.12.2017
(54) METHODS OF PREPARING AN AROMATIZATION CATALYST
(73) Chevron Phillips Chemical Company LP
(72) WU, An-Hsiang
(31) 201615386129
(32) 21.12.2016
(33) United States of America

(51) B01J 37/08
B01J 37/06
B01J 37/02
B01J 37/00
B01J 37/18

B01J 21/18
B01J 23/42
B01J 23/44
B01J 23/46
B01J 23/72
B01J 23/755
B01J 35/00
B01J 35/10
B82Y 30/00
C07C 67/343
C07C 209/36
C07C 2/86
C07C 253/30
C04B 38/00
(11) EP2909130
(21) EP13846718.8
(47) 26.01.2022
(87) US2013065226
24.04.2014
(22) 16.10.2013
(54) CATALYSIS BY METAL NANOPARTICLES DISPERSED WITHIN A HIERARCHICALLY POROUS CARBON MATERIAL
(73) Bakker, Martin
Shaughnessy, Kevin
Sayler, Franchessa Maddox
(72) Bakker, Martin
Shaughnessy, Kevin
Sayler, Franchessa Maddox
(31) 201261714281 P
(32) 16.10.2012
(33) United States of America

(51) B01L 3/00
(11) EP3349897
(21) EP16791676.6
(47) 26.01.2022
(87) IB2016055503
23.03.2017
(22) 15.09.2016
(54) DEVICE AND METHOD FOR FLUID SEPARATION BY DENSITY GRADIENT CENTRIFUGATION
(73) SPARK-TECH Sp. z o.o.
(72) ADAMSKI, Mateusz Grzegorz
GUMANN, Patryk
(31) 41391015
(32) 15.09.2015
(33) Poland

(51) B01L 3/00
(11) EP3349896
(21) EP16766034.9
(47) 26.01.2022
(87) GB2016052737
23.03.2017
(22) 06.09.2016
(54) MICROFLUIDIC STRUCTURES
(73) Sphere Fluidics Limited
(72) LIU, Xin
CLAY, Alexandra
LI, Xin
(31) 201516447
(32) 16.09.2015
(33) United Kingdom

(51) B01L 3/00
G01N 35/00
(11) EP3781312
(21) EP19719242.0
(47) 26.01.2022
(87) EP2019060063
24.10.2019
(22) 18.04.2019
(54) DEVICE FOR COUPLING A CARTRIDGE FOR A LAB-ON-A-CHIP ANALYSIS DEVICE, LAB-ON-A-CHIP ANALYSIS DEVICE AND METHOD FOR COUPLING A CARTRIDGE FOR A LAB-ON-A-CHIP ANALYSIS DEVICE
(73) Robert Bosch GmbH
(72) CZURRATIS, Daniel
RUPP, Jochen
SEIDL, Karsten
JELINEK, Thomas
(31) 102018206066
(32) 20.04.2018
(33) Germany

(51) B02C 18/22
B02C 18/24
B30B 9/30
B65B 41/12
B65B 11/02
B02C 18/14
B65B 63/02
B65B 65/02
B65B 35/12
(11) EP3296020
(21) EP17191418.7
(47) 26.01.2022
(22) 15.09.2017
(54) SHREDDING AND BALING APPARATUS AND METHOD
(73) GYRO-TRAC Corporation
(72) Gaudreault, Daniel
(31) 201615269071
(32) 19.09.2016
(33) United States of America

(51) B03B 9/06
B09B 3/00
B09B 5/00
C05F 17/00
C05F 9/02
C05F 17/10
C05F 17/50
C05F 17/979
C05F 17/986
C05F 17/90
(11) EP3145636
(21) EP15732794.1
(47) 26.01.2022
(87) FR2015051371
26.11.2015
(22) 22.05.2015
(54) METHOD FOR TREATING A MIXTURE OF WASTE, HAVING TWO COMPOSTING CYCLES
(73) Finance Developpement Environnement Charreyre - FIDEC
(72) CHARREYRE, Fabien, Michel, Alain
(31) 1454696
(32) 23.05.2014
(33) France

(51) B03C 1/28
B03C 1/033
C12N 15/10
G01N 35/10
G01N 35/00
G01N 35/04
(11) EP3663004
(21) EP20153441.9
(47) 26.01.2022
(22) 17.05.2010
(54) METHOD AND APPARATUS FOR PERFORMING A MAGNETIC SEPARATION PROCEDURE
(73) Gen-Probe Incorporated
(72) OPALSKY, Mr. David
HAGEN, Mr. Norbert D
KNIGHT, Byron
(31) 17867109 P
(32) 15.05.2009
(33) United States of America

(51) B03C 3/15
B03C 3/36
B03C 3/41
B03C 3/49
B01D 46/42
(11) EP3025785
(21) EP15190340.8
(47) 26.01.2022
(22) 19.10.2015
(54) DEVICE AND METHOD FOR PURIFICATION OF FLUE GAS OF A METALLURGICAL PLANT
(73) SMS group GmbH
(72) Wübbels, Thilo
(31) 102014223917
(32) 25.11.2014
(33) Germany

(51) B04C 3/00
B01D 45/16
(11) EP3645141
(21) EP18822607.0
(47) 26.01.2022
(87) CA2018000114
03.01.2019
(22) 07.06.2018
(54) CENTRIFUGAL GAS SEPARATOR
(73) Eteros Technologies Inc.
(72) HEYWOOD, Joe
INGRAM, Erik
KLOSSOK, Rudi
(31) 201715635955
(32) 28.06.2017
(33) United States of America

(51) B05B 1/02
A47K 5/14
B05B 11/00
B05B 7/00
A45D 27/02
(11) EP3521204
(21) EP17856185.8
(47) 26.01.2022
(87) JP2017034883
05.04.2018
(22) 27.09.2017
(54) FOAM DISCHARGE CONTAINER
(73) Kao Corporation
(72) OHNISHI, Hiroshi
(31) 2017181346
2017104707
2016191988
(32) 21.09.2017
26.05.2017
29.09.2016

(33) Japan
Japan
Japan

(51) B05B 1/08
B05B 1/14
B05B 1/34
(11) EP3194079
(21) EP15832401.2
(47) 26.01.2022
(87) US2015045316
18.02.2016
(22) 14.08.2015
(54) MULTI-INLET, MULTI-SPRAY FLUIDIC CUP NOZZLE WITH SHARED INTERACTION REGION AND SPRAY GENERATION METHOD
(73) dlhBowles Inc.
(72) GOPALAN, Shridhar
HARTRANFT, Evan
HESTER, Russell
(31) 201462037913 P
(32) 15.08.2014
(33) United States of America

(51) B05B 1/34
B05B 1/14
B65D 83/14
(11) EP3408032
(21) EP17745033.5
(47) 26.01.2022
(87) US2017015477
03.08.2017
(22) 27.01.2017
(54) IMPROVED SWIRL NOZZLE ASSEMBLY WITH HIGH EFFICIENCY MECHANICAL BREAK UP TO GENERATE MIST SPRAYS OF UNIFORM SMALL DROPLETS
(73) dlhBOWLES, Inc.
(72) GOPALAN, Shridhar
HARTRANFT, Evan
RUSSELL, Gregory A.
CAMERON, Andrew D.
(31) 201662287802 P
(32) 27.01.2016
(33) United States of America

(51) B05B 7/00
B01D 53/00
(11) EP3512639
(21) EP17787529.1
(47) 26.01.2022
(87) GB2017052703
22.03.2018
(22) 13.09.2017
(54) A CONDITIONING APPARATUS FOR PROVIDING A CARRIER GAS
(73) Haydell, Michael
(72) Haydell, Michael
(31) 201615549
(32) 13.09.2016
(33) United Kingdom

(51) B05B 9/08
(11) EP3698885
(21) EP20158221.0
(47) 26.01.2022
(22) 19.02.2020
(54) PAINT SPRAYER
(73) Techtronic Power Tools Technology Limited
(72) SMITH Isiah D.
(31) 201916279353
(32) 19.02.2019
(33) United States of America

(51) B05B 11/00
B65D 83/20
B65D 83/34
B65D 83/14
B05B 7/00
B05B 15/50
(11) EP2665562
(21) EP12701425.6
(47) 26.01.2022
(87) US2012021807
26.07.2012
(22) 19.01.2012
(54) ACTUATOR FOR A DISPENSING APPARATUS
(73) The Gillette Company LLC
(72) SMITH, Scott, Edward
GROH, David, Matthew
ANDRES, Brian, David
DAY, Todd, Mitchell
CHAN, Shaun, Shang-Yun
FRANCKHAUSER, Andrew, William
BENSON, William, Mercer
(31) 201161435169 P
201161435161 P
(32) 21.01.2011
21.01.2011
(33) United States of America
United States of America

(51) B05C 17/005
(11) EP3412366
(21) EP18176705.4
(47) 26.01.2022
(22) 08.06.2018
(54) RAPID HEATING TIP FOR A HOT-MELT GLUE GUN AND A HOT-MELT GLUE GUN
(73) Hangzhou Kelong Electrical Appliance Tools Co. Ltd
(72) Chen, Jian
Cui, Yuqun
(31) 201720666043 U
(32) 08.06.2017
(33) China

(51) B05C 17/005
B05C 17/01
B05B 11/00
B05B 11/02
A45D 19/02
A45D 24/28
(11) EP3669999
(21) EP18213604.4
(47) 26.01.2022
(22) 18.12.2018
(54) SEALABLE INTERNALLY FED APPLICATOR SYSTEM
(73) GEKA GmbH
(72) Jafari, Samira
Moser, Josef

(51) B05D 1/26
A47J 36/00
B05D 3/02
B41J 1/00
(11) EP3426415
(21) EP17713749.4
(47) 26.01.2022
(87) FR2017050551
14.09.2017
(22) 10.03.2017
(54) METHOD FOR PRODUCING A HEAT-STABLE COATING BY DIGITAL PRINTING
(73) SEB S.A.
(72) CAILLIER, Laurent
LE BRIS, Stéphanie
DAGAND, Sylvain
(31) 1652025
(32) 10.03.2016
(33) France

(51) B07B 1/46
B07B 13/16
E21B 21/06
(11) EP2964398
(21) EP14712998.5
(47) 26.01.2022
(87) US2014022172
12.09.2014
(22) 08.03.2014
(54) VECTOR MAXIMIZING SCREEN
(73) National Oilwell Varco, L.P.
(72) LARSON, Thomas Robert
DUFILHO, Paul William
(31) 201414200515
201361775177 P
(32) 07.03.2014
08.03.2013
(33) United States of America
United States of America

(51) B07C 3/00
(11) EP3766590
(21) EP20185260.5
(47) 26.01.2022
(22) 10.07.2020
(54) DEVICE AND METHOD FOR AUTOMATIC REMOVAL OF A LABEL
(73) Fives Maintenance
(72) MACZKA, Frédéric
(31) 1908228
(32) 19.07.2019
(33) France

(51) B08B 3/04
F01D 25/00
B08B 3/14
(11) EP3424605
(21) EP18176968.8
(47) 26.01.2022
(22) 11.06.2018
(54) SYSTEM AND METHODS FOR SELECTIVE CLEANING OF TURBINE ENGINE COMPONENTS
(73) General Electric Company
(72) JENKINS, Andrew James
TIBBETTS, Nicole Jessica
WATT, John
LAURIA, Vincent Gerard
PERRETT, Christopher
DOLLEY, Evan Jarrett
BEWLAY, Bernard Patrick
(31) 201715620935
(32) 13.06.2017
(33) United States of America

(51) B08B 3/10
B08B 3/14

(11) EP3717141
(21) EP19717438.6
(47) 26.01.2022
(87) EP2019057931
03.10.2019
(22) 28.03.2019
(54) METHOD AND DEVICE FOR PROVIDING A MEDIUM BY MEANS OF CYCLIC NUCLEATION
(73) LPW Reinigungssysteme GmbH
(72) STEHLIG, Claudia
HAUGER, Hans
(31) 102018107473
(32) 28.03.2018
(33) Germany

(51) B08B 9/08
B08B 9/049
(11) EP3241624
(21) EP16168565.6
(47) 26.01.2022
(22) 06.05.2016
(54) APPARATUS AND METHOD FOR DEPLETING A TANK
(73) Wolftank-Adisa Holding AG
(72) BIANCHI, Lucio
Werth, Peter
Lechthaler, Markus
Radice, Ermanno

(51) B08B 9/42
B65G 17/06
B65G 17/16
B65G 17/32
(11) EP3337626
(21) EP16730347.8
(47) 26.01.2022
(87) EP2016063723
23.02.2017
(22) 15.06.2016
(54) BOTTLE CELL CARRIER AND CLEANING MACHINE HAVING MULTIPLE BOTTLE CELL CARRIERS
(73) KHS GmbH
(72) HEIN, Elmar
WIEDEMANN, Ulrich
(31) 102015113668
(32) 18.08.2015
(33) Germany

(51) B21B 27/10
(11) EP3826779
(21) EP19740369.4
(47) 26.01.2022
(87) EP2019068990
30.01.2020
(22) 15.07.2019
(54) ROLL STAND AND METHOD FOR COOLING THE UPPER WORKING ROLL OF A ROLL STAND
(73) SMS Group GmbH
(72) BEUTER, Ron
(31) 102018212168
(32) 23.07.2018
(33) Germany

(51) B21D 1/12
(11) EP3221065
(21) EP15861591.4
(47) 26.01.2022
(87) FI2015050798
26.05.2016
(22) 17.11.2015
(54) STRAIGHTENING APPARATUS
(73) Venäläinen, Olavi
(72) Venäläinen, Olavi
(31) 20146018
(32) 20.11.2014
(33) Finland

(51) B21D 22/02
B21D 22/20
B21J 5/12
B23K 26/322
B62D 25/04
B62D 29/00
B23K 26/244
B23K 33/00
B23K 101/00
B23K 101/18
B23K 101/34
B23K 103/04
(11) EP3727716
(21) EP18827250.4
(47) 26.01.2022
(87) IB2018059614
27.06.2019
(22) 04.12.2018
(54) METHOD OF MANUFACTURING A WELDED STEEL PART TO BE USED AS MOTOR VEHICLE PART
(73) ArcelorMittal
(72) HAOUAS, Jessy
(31) PCT/IB2017/058270
(32) 21.12.2017
(33) World Intellectual Property Office (WIPO)

(51) B21D 37/16
B21D 22/02
B21D 22/20
(11) EP3495062
(21) EP18205624.2
(47) 26.01.2022
(22) 12.11.2018
(54) APPARATUS AND METHOD FOR FORMING ALUMINUM PLATE
(73) Kia Corporation
Hyundai Motor Company
(72) JUNG, Youn-Il
(31) 20170165764
(32) 05.12.2017
(33) Korea (Republic)

(51) B21D 53/10
B21D 22/16
F01L 3/14
B23P 15/00
(11) EP3762163
(21) EP19721555.1
(47) 26.01.2022
(87) EP2019060103
28.11.2019
(22) 18.04.2019
(54) METHOD FOR PRODUCING A HOLLOW VALVE HAVING OPTIMISED SHAFT INNER GEOMETRY FOR COMBUSTION ENGINES
(73) Federal-Mogul Valvetrain GmbH
(72) BAYARD, Guido
WOLKING, Antonius
MATTHIAS, Thorsten
(31) 102018112295
(32) 23.05.2018
(33) Germany

(51) B21H 1/18
B21H 7/06
(11) EP3733322
(21) EP20171869.9
(47) 26.01.2022
(22) 28.04.2020
(54) DEVICE AND METHOD FOR FORMING SHAFT PART BY TWO-ROLLER FLEXIBLE SKEW ROLLING
(73) University Of Science And Technology Beijing
(72) YANG, Cuiping
LIU, Jinping
WANG, Baoyu
LIN, Longfei
(31) 201910362201
(32) 30.04.2019
(33) China

(51) B22C 7/04
B22C 15/08
B22C 15/02
B22C 21/08
(11) EP3539686
(21) EP19163208.2
(47) 26.01.2022
(22) 15.03.2019
(54) MOULDING MACHINE WITH A BOLSTER ARRANGEMENT AND METHOD FOR PRODUCING A MOULD
(73) Künkel Wagner Germany GmbH
(72) Montero, Gelson G.
(31) 18182048
18162056
(32) 05.07.2018
15.03.2018
(33) European Patent Office (EPO)
European Patent Office (EPO)

(51) B22C 9/02
B22C 9/10
B22D 27/04
C30B 11/00
C30B 11/14
C30B 29/52
C30B 29/66
(11) EP3549694
(21) EP19167674.1
(47) 26.01.2022
(22) 05.04.2019
(54) METHOD AND APPARATUS TO PREVENT GAP IN CYLINDRAL SEEDS AROUND AN INTERNAL CERAMIC CORE
(73) Raytheon Technologies Corporation
(72) BULLIED, Steven J.
BRENEMAN, Ryan C.
WOODARD, Shiela R.
SHAH, Dilip M.
(31) 201815946090
(32) 05.04.2018
(33) United States of America

(51) B22C 9/22
B22D 25/02
A44C 27/00
(11) EP3738692
(21) EP20169417.1
(47) 26.01.2022
(22) 14.04.2020

(54) PROCESS FOR MAKING AN ORNAMENTAL ARTICLE AND APPARATUS FOR MAKING AN ORNAMENTAL ARTICLE
(73) Nuovi Gioielli S.r.l.
(72) CARLESSO, Damiano
TORRESAN, Ivano
(31) 201900006897
(32) 16.05.2019
(33) Italy
(51) B22D 11/06
B22D 11/11
B22D 11/117
B22D 27/20
C21D 8/04
(11) EP1945392
(21) EP06790405.2
(47) 26.01.2022
(87) AU2006001554
26.04.2007
(22) 19.10.2006
(54) A STEEL PRODUCT WITH A HIGH AUSTENITE GRAIN COARSENING TEMPERATURE, AND METHOD FOR MAKING THE SAME
(73) Nucor Corporation
(72) BARBARO, Frank
KAUL, Harold, Roland
RENWICK, Philip, John
STREZOV, Lazar
MAHAPATRA, Rama, Ballav
PHILLIPS, Andrew
BLEDJE, Walter
WILLIAMS, James, Geoffrey
KILLMORE, Christopher, Ronald
(31) 255604
(32) 20.10.2005
(33) United States of America
(51) B22D 23/10
C22B 9/18
F27D 11/10
H05B 7/10
(11) EP3752303
(21) EP19703993.6
(47) 26.01.2022
(87) EP2019052948
22.08.2019
(22) 06.02.2019
(54) REMELTING PLANT AND METHOD FOR OPERATING A REMELTING PLANT
(73) ALD Vacuum Technologies GmbH
(72) POPOV, Ivaylo
BIEBRICHER, Ulrich
(31) 102018103312
(32) 14.02.2018
(33) Germany
(51) B22D 41/12
B66C 17/10
F27D 3/12
C21C 7/10
(11) EP3790691
(21) EP19718713.1
(47) 26.01.2022
(87) EP2019060415
14.11.2019
(22) 24.04.2019
(54) LIFTING DEVICE FOR A METALLURGICAL LADLE
(73) Primetals Technologies Germany GmbH
(72) POULAIN, Mike
HARTER, Andreas
AKGUEL, Muhammed Burak
(31) 18171077
(32) 07.05.2018
(33) European Patent Office (EPO)
(51) B22F 1/00
B22F 5/00
C22C 38/00
B33Y 70/00
B33Y 80/00
C22C 38/50
C22C 38/44
C22C 38/16
C22C 38/14
C22C 38/12
C22C 38/08
C22C 38/06
C22C 38/04
C22C 38/02
C22C 33/02
B22F 3/24
B22F 3/105
B22F 10/20
B22F 10/64
B33Y 40/20
B33Y 10/00
B29C 64/153
(11) EP3719158
(21) EP19166544.7
(47) 26.01.2022
(22) 01.04.2019
(54) USE OF A STEEL POWDER, METHOD FOR PRODUCING A STEEL COMPONENT BY MEANS OF ADDITIVE MANUFACTURING
(73) Deutsche Edelstahlwerke Specialty Steel GmbH & Co. KG
(72) van Soest, Frank
Krull, Hans-Günter
(51) B22F 1/02
B22F 9/12
B22F 9/22
B22F 9/28
B22F 1/00
(11) EP3560632
(21) EP18751250.4
(47) 26.01.2022
(87) JP2018003766
16.08.2018
(22) 05.02.2018
(54) COPPER FINE PARTICLES AND METHOD FOR PRODUCING SAME
(73) Taiyo Nippon Sanso Corporation
(72) FUJIMOTO Takayuki
IGARASHI Hiroshi
SAKURAMOTO Yuji
(31) 2017020368
(32) 07.02.2017
(33) Japan
(51) B22F 3/10
C22C 1/05
C22C 29/08
B22F 5/00
B22F 3/02
C22C 1/10
(11) EP3670029
(21) EP20154023.4
(47) 26.01.2022
(22) 16.08.2018
(54) CEMENTED CARBIDE MATERIAL
(73) Element Six Gmbh
(72) KONYASHIN, Igor Yurievich
RIES, Bernd Heinrich
(31) 201713532
(32) 23.08.2017
(33) United Kingdom
(51) B22F 3/105
B33Y 30/00
B29C 64/153
B29C 64/245
B33Y 10/00
B22F 12/00
B22F 10/20
B29C 64/25
(11) EP3106288
(21) EP16174242.4
(47) 26.01.2022
(22) 13.06.2016
(54) ADDITIVE MANUFACTURING APPARATUS AND METHOD FOR LARGE COMPONENTS
(73) General Electric Company
(72) MORRIS, Gregory Muster
WILFERT, Guenter Helmut
ROCKSTROH, Todd Jay
(31) 201514744982
(32) 19.06.2015
(33) United States of America
(51) B22F 3/105
B33Y 30/00
B33Y 10/00
B29C 64/386
B29C 64/118
B33Y 50/00
B23K 26/342
B29C 64/153
G06N 3/04
G06N 3/08
B33Y 40/00
B22F 10/20
B22F 10/30
B22F 12/00
B22F 3/24
B23K 26/14
B23K 31/00
B23K 37/00
B33Y 50/02
C22C 1/04
C22C 33/02
(11) EP3741481
(21) EP20162933.4
(47) 26.01.2022
(22) 13.03.2020
(54) ADDITIVE MANUFACTURING WITH ADJUSTED COOLING RESPONSIVE TO THERMAL CHARACTERISTIC OF WORKPIECE
(73) The Boeing Company
(72) Baker, Andrew H.
Castle, James B.
Thomas, Eric Erwin
Easley, Samuel Joseph

(31) 201916421303
(32) 23.05.2019
(33) United States of America

(51) B22F 9/10
C22C 32/00
C22C 1/04
C22C 1/10
B22F 1/00
B22F 5/04
B22F 3/15
B22F 1/02
B22F 5/00
(11) EP2853611
(21) EP14184162.7
(47) 26.01.2022
(22) 09.09.2014
(54) Powder mixtures containing uniform dispersions of ceramic particles in superalloy particles and related methods
(73) Honeywell International Inc.
(72) Roundy, James S.
Cobb, James J.
Piascik, James
Aizaz, Amer
(31) 201314036373
(32) 25.09.2013
(33) United States of America

(51) B22F 10/25
B22F 10/28
B22F 10/364
B22F 10/38
B22F 12/45
B33Y 10/00
B33Y 50/02
B33Y 70/00
C22C 1/04
C22C 21/08
C22C 32/00
B22F 3/24
B23K 15/00
B23K 15/06
B23K 26/06
B23K 26/067
B23K 26/342
B23K 9/04
B23K 26/073
B23K 26/34
(11) EP3596242
(21) EP18712414.4
(47) 26.01.2022
(87) US2018021653
20.09.2018
(22) 09.03.2018
(54) METHOD FOR FUSION PROCESSING ALUMINUM ALLOY AND ALUMINUM ALLOY PRECURSOR MATERIAL
(73) Raytheon Company
(72) MASON, Ralph, P.
NELSON, Norman, D.
PISTORINO, Mark, J.
(31) 201715457312
(32) 13.03.2017
(33) United States of America

(51) B23B 29/02
B23B 29/034
B23B 41/02
(11) EP3560642
(21) EP18784421.2
(47) 26.01.2022
(87) JP2018008770
18.10.2018
(22) 07.03.2018
(54) HOLE INNER-SURFACE CUTTING APPARATUS
(73) IHI Corporation
(72) NAKANISHI Akira
IREI Yoshiki
NISHITANI Akiyuki
ENDA Michiko
(31) 2017077283
(32) 10.04.2017
(33) Japan

(51) B23B 29/26
(11) EP2839909
(21) EP13769582.1
(47) 26.01.2022
(87) JP2013058069
03.10.2013
(22) 21.03.2013
(54) MACHINE TOOL
(73) Citizen Machinery Co., Ltd.
Citizen Watch Co., Ltd.
(72) KOTAKE, Kyota
KASUYA, Hiroshi
KERA Yasuhiro
ASAHARA, Noriyuki
(31) 2012069984
(32) 26.03.2012
(33) Japan

(51) B23B 31/00
B28D 1/18
B27C 5/10
B26D 7/26
(11) EP3771511
(21) EP19215577.8
(47) 26.01.2022
(22) 12.12.2019
(54) HAND MILLING MACHINE AND MILLING DRUM THEREFOR
(73) atlas diamant GmbH
(72) Galeski, Peter
(31) 19189758
(32) 02.08.2019
(33) European Patent Office (EPO)

(51) B23B 51/08
B28D 1/14
B23P 15/28
B23P 15/32
(11) EP3395523
(21) EP18168571.0
(47) 26.01.2022
(22) 20.04.2018
(54) CUTTING TOOL AND METHOD OF FORMING A CUTTING TOOL
(73) Rolls-Royce plc
(72) Butler-Smith, Paul
Novovic, Donka
Gavaldà Diaz, Oriol
Axinte, Dragos
(31) 201706687
(32) 27.04.2017
(33) United Kingdom

(51) B23K 9/02
B23K 9/173
B23K 9/167
B23K 15/00
F01D 5/02
B23K 26/28
B23K 9/028
(11) EP2786828
(21) EP14161869.4
(47) 26.01.2022
(22) 27.03.2014
(54) Method for welding rotors for power generation
(73) Ansaldo Energia Switzerland AG
(72) Balbach, Werner Martin
Gerdes, Claus Paul
Keller, Sorin
(31) 13162323
(32) 04.04.2013
(33) European Patent Office (EPO)

(51) B23K 9/095
A61F 9/06
B23K 9/32
B23K 37/00
F16P 1/06
(11) EP3593931
(21) EP19187876.8
(47) 26.01.2022
(22) 01.04.2015
(54) WELDING AND/OR CUTTING SYSTEM WITH CONTROL SYSTEM USING BLUTOOTH TYPE COMMUNICATION
(73) Trafimet Group S.p.A.
(72) SIMIONI, Ugo
IMI, Attilio
(31) VI20140089
(32) 04.04.2014
(33) Italy

(51) B23K 10/00
B23K 15/08
B23K 26/08
B23K 26/14
B23K 26/38
B23K 37/02
B23K 37/04
G05B 19/18
(11) EP3736074
(21) EP20164084.4
(47) 26.01.2022
(22) 19.03.2020
(54) METHOD OF SEPARATING A PLURALITY OF WORKPIECE PARTS BY MEANS OF CUTTING
(73) TRUMPF Werkzeugmaschinen GmbH + Co. KG
(72) SEPP, Florian
Burger, Dr. Dieter
Weiß, Dr. Christoph
Mach, Patrick
(31) 102019206274
(32) 02.05.2019
(33) Germany

(51) B23K 20/10
H01R 4/02
H01R 43/02
B23K 101/32
B23K 101/38
(11) EP3645204
(21) EP18733246.5
(47) 26.01.2022
(87) EP2018066470
03.01.2019

(22) 20.06.2018
(54) METHOD AND ARRANGEMENT FOR ELECTRICALLY CONDUCTIVE CONNECTING OF CONDUCTORS WITH A RETAINING DEVICE
(73) Schunk Sonosystems Gmbh
(72) WAGENBACH, Udo
SCHMIDT, Reiner
GILBERT, Bastian
(31) 102017114182
(32) 27.06.2017
(33) Germany

(51) B23K 20/12
F01L 3/14
(11) EP3793762
(21) EP19728584.4
(47) 26.01.2022
(87) EP2019063054
19.03.2020
(22) 21.05.2019
(54) METHOD FOR PRODUCING A WELDED CAVITY VALVE
(73) Federal-Mogul Valvetrain GmbH
(72) MATTHIAS, Thorsten
WOLKING, Antonius
(31) 102018122441
(32) 13.09.2018
(33) Germany

(51) B23K 26/00
B23K 26/08
B23K 26/0622
B23K 26/53
G02F 1/1333
G02F 1/157
G02F 1/161
E06B 3/66
E06B 3/67
E06B 9/24
G02B 27/34
E06B 3/663
G02B 27/00
F21V 8/00
B23K 103/00
(11) EP3268565
(21) EP16762410.5
(47) 26.01.2022
(87) US2016021526
15.09.2016
(22) 09.03.2016
(54) WINDOW SYSTEM WITH INDICIA
(73) Gentex Corporation
(72) GEERLINGS, Kurtis L.
CAMMENGA, David J.
(31) 201562130095 P
(32) 09.03.2015
(33) United States of America

(51) B23K 26/00
B23K 26/361
B23K 26/60
B23K 33/00
B23K 101/34
B23K 103/08
B23K 103/16
(11) EP3620255
(21) EP19202749.8
(47) 26.01.2022
(22) 14.03.2014
(54) METHOD OF MAKING A WELDED BLANK ASSEMBLY
(73) Grouper Blanking, LLC
(72) WALTHER, James W.
HARFOOT, Jason E.
TELENKO, Michael
ATKINSON, Jack A.
PARENTE, Anthony M.
EVANGELISTA, James J.
(31) 201361784184 P
(32) 14.03.2013
(33) United States of America

(51) B23K 26/08
A44C 17/00
B23K 26/146
B23K 26/38
B23K 26/402
B23K 103/00
(11) EP3705222
(21) EP19161033.6
(47) 26.01.2022
(22) 06.03.2019
(54) METHOD AND APPARATUS FOR MANUFACTURING A WORKPIECE INTO A PRODUCT THROUGH LASER PROCESSING
(73) Synova S.A.
(72) RICHERZHAGEN, Bernold
PAUSCH, Jörg
LE CLEC'H, Julien

(51) B23K 26/10
B23K 26/21
H01M 8/0202
B23K 26/244
B23K 37/04
(11) EP3656499
(21) EP18834803.1
(47) 26.01.2022
(87) JP2018026271
24.01.2019
(22) 12.07.2018
(54) LASER WELDING METHOD AND LASER WELDING TOOL DEVICE
(73) NOK Corporation
(72) NAGAMATSU, Kento
HIGASHI, Hiroyuki
SHIMAZOE, Toshihiro
(31) 2017140172
(32) 19.07.2017
(33) Japan

(51) B23K 26/60
B23P 6/00
B23K 26/14
(11) EP3778106
(21) EP20197711.3
(47) 26.01.2022
(22) 06.03.2019
(54) TURBINE BLADE TIP RAIL FORMATION AND REPAIR USING LASER WELDING
(73) General Electric Company
(72) WASSMER, Klaus-Dieter
BISSIG, Hans
MANGANO, Fabrizio
CAFARELLI, David
LUCKE, Norbert
(31) 201815913185
(32) 06.03.2018
(33) United States of America

(51) B23K 35/30
B23K 35/02
C22C 38/00
C22C 38/02
C22C 38/04
C22C 38/12
C22C 38/14
C22C 38/16
C22C 38/20
C22C 38/28
C22C 38/38
C22C 38/06
B23K 9/16
B23K 103/04
(11) EP3819071
(21) EP20172394.7
(47) 26.01.2022
(22) 30.04.2020
(54) WIRE FOR GAS-SHIELDED ARC WELDING
(73) Kabushiki Kaisha Kobe Seiko Sho (Kobe Steel, Ltd.)
(72) KINASHI, Hikaru
YOKOTA, Yasuyuki
IKAI, Kazuya
(31) 2019238958
2019202161
(32) 27.12.2019
07.11.2019
(33) Japan
Japan

(51) B23K 35/362
B23K 35/02
B23K 35/36
B23K 35/26
C22C 13/00
(11) EP3683005
(21) EP18847207.0
(47) 26.01.2022
(87) JP2018031263
31.05.2019
(22) 24.08.2018
(54) FLUX AND SOLDER PASTE
(73) Senju Metal Industry Co., Ltd.
(72) KAWANAGO, Tomohisa
SHIRATORI, Masato
NISHIZAKI, Takahiro
KAWASAKI, Hiroyoshi
(31) 2017225681
(32) 24.11.2017
(33) Japan

(51) B23P 19/06
B25B 29/02
F03D 13/10
F03D 13/20
B25B 21/00
B25B 27/16
G01B 5/14
G01B 11/14
(11) EP3593939
(21) EP19185971.9
(47) 26.01.2022
(22) 12.07.2019
(54) METHOD FOR SCREWING A FLANGE CONNECTION, MEASURING CART AND ROBOT
(73) Schaaf GmbH & Co. KG

(72) Köllges, Ralf
(31) 102018117061
(32) 13.07.2018
(33) Germany

(51) B23Q 3/157
B23Q 11/08
(11) EP3090831
(21) EP16167743.0
(47) 26.01.2022
(22) 29.04.2016
(54) QUICK-CHANGE TOOL SYSTEM WITH CHIP GUIDE DEVICE
(73) HOMAG GmbH
(72) Martinetz, Jörg
Calmbach, Martin
(31) 202015003373 U
(32) 06.05.2015
(33) Germany

(51) B23Q 11/00
(11) EP2953764
(21) EP13826957.6
(47) 26.01.2022
(87) IB2013061044
14.08.2014
(22) 17.12.2013
(54) MACHINE TOOL WITH A DEVICE FOR ACTING AGAINST THE WEIGHT OF A MACHINING HEAD
(73) Innse-Berardi S.p.A.
(72) MARCHIONI, Enrico
MARCHETTI, Marcello
VALSECCHI, Natale
(31) BS20130012
(32) 07.02.2013
(33) Italy

(51) B23Q 15/22
B23Q 15/14
B25J 19/02
B25J 15/00
B26F 3/00
B23Q 17/24
B23Q 1/54
B23Q 39/02
B26D 5/00
B25J 11/00
(11) EP3105022
(21) EP15709785.8
(47) 26.01.2022
(87) US2015015492
20.08.2015
(22) 11.02.2015
(54) MULTI-FUNCTIONAL END EFFECTOR WITH INTEGRATED WATERJET, MILLING SPINDLE SYSTEM AND/OR SCANNING SENSOR
(73) PaR Systems, LLC
(72) MCCHAIN, Andrew
JUNG, Thomas, E.
(31) 201461938598 P
(32) 11.02.2014
(33) United States of America

(51) B24B 21/08
B24B 27/00
(11) EP2965864
(21) EP15175813.3
(47) 26.01.2022
(22) 08.07.2015
(54) SANDING MACHINE
(73) E.M.C. S.r.l.
(72) STAGNI, Alberto
(31) BO20140392
(32) 10.07.2014
(33) Italy

(51) B24C 1/10
B24C 1/06
B24C 1/08
B24C 7/00
B05B 7/14
B05B 12/04
B08B 3/02
B05B 7/04
B33Y 40/00
(11) EP3450104
(21) EP18190086.1
(47) 26.01.2022
(22) 21.08.2018
(54) METHOD AND APPARATUS FOR FLUID CAVITATION ABRASIVE SURFACE FINISHING
(73) The Boeing Company
(72) SANDERS, Daniel Gordon
(31) 201715693401
(32) 31.08.2017
(33) United States of America

(51) B24C 1/10
B24C 3/24
F16F 1/04
F16F 1/02
(11) EP3184242
(21) EP15834152.9
(47) 26.01.2022
(87) JP2015066609
25.02.2016
(22) 09.06.2015
(54) VERTICAL MOTION IMPELLER-TYPE SHOT PEENING DEVICE
(73) NHK Spring Co., Ltd.
(72) MORIYAMA, Senri
KOMAZAKI, Masaya
NAGAYASU, Go
OKADA, Hideki
AKIYAMA, Satoshi
YOKOTA, Daisuke
(31) 2014167758
(32) 20.08.2014
(33) Japan

(51) B24D 3/14
C09K 3/14
C09C 1/68
(11) EP3683018
(21) EP20158598.1
(47) 26.01.2022
(22) 30.03.2012
(54) METHOD OF FORMING A BONDED ABRASIVE BODY
(73) Saint-Gobain Abrasives, Inc.
Saint-Gobain Abrasifs
(72) Campaniello, John
Fix, Renaud
Woods, Stephen
Besse, John R.
Fox, Stephen E.
Gaffney, Jim
Sarangi, Nilanjan
(31) 201161470064 P
(32) 31.03.2011
(33) United States of America

(51) B24D 15/08
(11) EP3261802
(21) EP16756181.0
(47) 26.01.2022
(87) US2016019123
01.09.2016
(22) 23.02.2016
(54) KNIFE SHARPENING SHEATH AND METHOD FOR MAKING THE SAME
(73) Lifetime Brands, Inc.
(72) LIN, Hsin-jung
(31) 201562120483 P
(32) 25.02.2015
(33) United States of America

(51) B25B 11/00
B21J 15/14
B23Q 3/154
B25B 5/14
B25B 31/00
B21J 15/30
B21J 15/42
(11) EP3363593
(21) EP18167122.3
(47) 26.01.2022
(22) 24.04.2013
(54) CLAMP ASSEMBLY INCLUDING PERMANENT MAGNETS AND COILS FOR SELECTIVELY MAGNETIZING AND DEMAGNETIZING THE MAGNETS
(73) Massachusetts Institute of Technology
The Boeing Company
(72) Rus, Daniela Lucia
Sarh, Branko
Marchese, Andrew Dominic
(31) 201213460741
(32) 30.04.2012
(33) United States of America

(51) B25B 13/46
B25B 23/142
B25F 5/00
G08C 17/02
(11) EP3007862
(21) EP14810871.5
(47) 26.01.2022
(87) US2014042113
18.12.2014
(22) 12.06.2014
(54) WIRELESS TOOL SYSTEM
(73) Stanley Black & Decker, Inc.
(72) PARK, Insik
LEHNERT, Mark, W.
SCHIAPPACASSE, John, M.
JONES, Thomas, M.
LEHNERT, Lawrence, J.
(31) 201361834643 P
(32) 13.06.2013
(33) United States of America

(51) B25B 23/00
A61B 17/88
(11) EP3160687
(21) EP15734509.1
(47) 26.01.2022
(87) US2015037053
07.01.2016
(22) 23.06.2015
(54) SCREWDRIVER
(73) DePuy Synthes Products, Inc.

(72) THOMAS, Stephanie
AEBERHARD, Martin
LIETZ, Eva
GALM, Andre
(31) 201414320490
(32) 30.06.2014
(33) United States of America

(51) B25B 27/10
(11) EP3381618
(21) EP18163087.2
(47) 26.01.2022
(22) 21.03.2018
(54) PRESSING MEANS FOR PRESSING A FITTING
(73) Viega Technology GmbH & Co. KG
(72) Rosenthal, Jörg
Mester, Reiner
Dasbach, Philipp
(31) 102017106744
(32) 29.03.2017
(33) Germany

(51) B25C 1/06
B25C 1/04
(11) EP3670092
(21) EP19193300.1
(47) 26.01.2022
(22) 23.08.2019
(54) NAIL GUN
(73) Taizhou Dingba Power Tools Co., Ltd.
(72) ZHANG, Huading
(31) 201821380316 U
(32) 25.08.2018
(33) China

(51) B25C 5/00
B25C 5/16
H02G 3/32
(11) EP3560659
(21) EP19174819.3
(47) 26.01.2022
(22) 11.04.2014
(54) MULTI-MAGAZINE CLAMPING TOOL
(73) Pettersen, Thor Gunnar
(72) PETTERSEN, Thor Gunnar
JOHANNESSEN, Arne Steen
(31) 20130523
(32) 17.04.2013
(33) Norway

(51) B25C 7/00
B25C 1/04
(11) EP3450108
(21) EP17789180.1
(47) 26.01.2022
(87) JP2017013670
02.11.2017
(22) 31.03.2017
(54) DRIVING DEVICE
(73) Koki Holdings Co., Ltd.
(72) NAGAO Masaya
(31) 2016090365
(32) 28.04.2016
(33) Japan

(51) B25F 1/00
B25H 1/00
B21J 15/10
B23Q 9/00
(11) EP2564989
(21) EP12189431.5
(47) 26.01.2022
(22) 24.06.2004
(54) Methods and apparatus for manufacturing operations
(73) The Boeing Company
(72) Outous, Ronald W.
Buttrick Jr., James M.
Jones, Darrell D
Boyl-Davis, Theodore M.
Gage, Roger M.
Arntson, Paul R.
Wallace, Lyle M.
(31) 606625
606473
606472
606443
606402
(32) 25.06.2003
25.06.2003
25.06.2003
25.06.2003
25.06.2003
(33) United States of America
United States of America
United States of America
United States of America
United States of America

(51) B25F 1/00
B66F 1/06
B66F 13/00
B05C 17/01
(11) EP3706959
(21) EP19715264.8
(47) 26.01.2022
(87) NO2019000003
22.08.2019
(22) 07.02.2019
(54) HANDHELD JACKING/LEVELLING-TOOL
(73) Viking Arm AS
(72) OYVIND, Resch
TERJE, Scheen
(31) 20180251
(32) 16.02.2018
(33) Norway

(51) B25F 5/00
B25B 21/02
B25B 21/00
(11) EP3481593
(21) EP17739956.5
(47) 26.01.2022
(87) EP2017067398
18.01.2018
(22) 11.07.2017
(54) PORTABLE POWER TOOL DEVICE
(73) Robert Bosch GmbH
(72) HERR, Tobias
BLUM, Jens
SAUR, Dietmar
(31) 102017211772
102016212607
(32) 10.07.2017
11.07.2016
(33) Germany
Germany

(51) B25F 5/00
B25B 27/02
B23D 15/14
B23D 29/00
(11) EP3213881
(21) EP17158710.8
(47) 26.01.2022
(22) 01.03.2017
(54) A HYDRODYNAMIC COMPRESSION OR CUTTING TOOL
(73) CEMBRE S.p.A.
(72) BAREZZANI, Gualtiero
(31) UA20161805
UB20161240
(32) 18.03.2016
02.03.2016
(33) Italy
Italy

(51) B25F 5/02
B24B 23/02
B25F 5/00
(11) EP3479967
(21) EP17819736.4
(47) 26.01.2022
(87) JP2017019711
04.01.2018
(22) 26.05.2017
(54) ELECTRICALLY POWERED TOOL
(73) Koki Holdings Co., Ltd.
(72) SAKAI Hironori
MIYAZAWA Ken
(31) 2017013050
2016130338
(32) 27.01.2017
30.06.2016
(33) Japan
Japan

(51) B25J 5/02
B23K 37/04
B25J 9/00
(11) EP3218149
(21) EP15805117.7
(47) 26.01.2022
(87) EP2015076407
19.05.2016
(22) 12.11.2015
(54) RETAINING DEVICE, MACHINING DEVICE AND METHOD
(73) KUKA Deutschland GmbH
(72) RICHTER, Bernd
GOLDSTEIN, Christian
BROCKHOFF, Per-Olaf
(31) 202014105464 U
(32) 13.11.2014
(33) Germany

(51) B25J 9/00
(11) EP3365139
(21) EP16777978.4
(47) 26.01.2022
(87) EP2016073616
27.04.2017
(22) 04.10.2016
(54) PARALLEL-KINEMATICS ROBOT AND METHOD FOR MANIPULATING SAME
(73) KRONES Aktiengesellschaft
(72) PERL, Kurt
HARTL, Michael
WESTERMEIER, Christian
UNTERSEHER, Josef
(31) 102015220413
(32) 20.10.2015

(33) Germany

(51) B25J 9/00
B25J 19/02
(11) EP3351351
(21) EP17207272.0
(47) 26.01.2022
(22) 14.12.2017
(54) DEVICE FOR THE AUTOMATED REMOVAL OF WORKPIECES ARRANGED IN A CONTAINER
(73) Liebherr-Verzahntechnik GmbH
(72) Mattern, Thomas
Riedmiller, Bernhard
Hänschke, David
(31) 102017000527
(32) 20.01.2017
(33) Germany

(51) B25J 9/08
B25J 15/02
B25J 15/04
B25J 15/10
(11) EP3331667
(21) EP16759675.8
(47) 26.01.2022
(87) DE2016000304
16.02.2017
(22) 06.08.2016
(54) GRIPPER DEVICE MODULE SYSTEM
(73) Zimmer, Martin
Zimmer, Günther
(72) Zimmer, Martin
Zimmer, Günther
(31) 102015010046
(32) 07.08.2015
(33) Germany

(51) B25J 9/08
B25J 17/00
(11) EP3248735
(21) EP16196949.8
(47) 26.01.2022
(22) 02.11.2016
(54) ROBOT JOINT STRUCTURE
(73) UBTech Robotics Corp Ltd
(72) XIONG, Youjun
WANG, Yang
SHU, Wenquan
CHEN, Zhiquan
LIU, Meichun
(31) 201620505834 U
(32) 27.05.2016
(33) China

(51) B25J 9/16
(11) EP3747604
(21) EP19179086.4
(47) 26.01.2022
(22) 07.06.2019
(54) ROBOT DEVICE CONTROLLER, ROBOT DEVICE ARRANGEMENT AND METHOD FOR CONTROLLING A ROBOT DEVICE
(73) Robert Bosch GmbH
(72) Rozo, Leonel

(51) B25J 9/16
G06T 7/00
G06T 7/20
F16P 3/14
(11) EP3715065
(21) EP20169088.0
(47) 26.01.2022
(22) 30.01.2015
(54) CONTROLLING A ROBOT IN THE PRESENCE OF A MOVING OBJECT
(73) Microsoft Technology Licensing, LLC
(72) KIKKERI, Harshavardhana
THIBODEAU, Bryan J.
(31) 201414172230
(32) 04.02.2014
(33) United States of America

(51) B25J 19/02
B25J 5/00
B21D 5/02
B21D 5/00
B21D 43/10
(11) EP3529016
(21) EP17784307.5
(47) 26.01.2022
(87) EP2017076626
26.04.2018
(22) 18.10.2017
(54) POSITIONABLE ROBOT CELL, PRODUCTION DEVICE WITH A PROCESSING UNIT AND WITH POSITIONABLE ROBOT CELL AND METHOD FOR OPERATING SUCH A ROBOT CELL WHICH CAN BE POSITIONED
(73) Bystronic Laser AG
(72) STEIN, Christian
(31) 16195186
(32) 21.10.2016
(33) European Patent Office (EPO)

(51) B26D 1/40
B26D 7/02
B26D 7/01
B65H 35/08
B41F 13/60
B26D 7/08
(11) EP3645226
(21) EP19740497.3
(47) 26.01.2022
(87) EP2019067716
16.01.2020
(22) 02.07.2019
(54) CROSS-CUTTING DEVICE AND METHOD FOR STABILIZING A CUTTING EDGE DURING CRUSH CUTTING
(73) BW Papersystems Hamburg GmbH
(72) BORG, Mathias
HERPELL, Frank
GÄDTKE, Thorsten
(31) 102018122005
102018117055
(32) 10.09.2018
13.07.2018
(33) Germany
Germany

(51) B26D 7/06
B26D 7/32
(11) EP2942165
(21) EP15175865.3
(47) 26.01.2022
(22) 03.05.2011
(54) METHOD FOR OPERATING A SLICING DEVICE WITH MULTI-TRACK DRIVES
(73) GEA Food Solutions Germany GmbH
(72) SCHMEISER, Jörg
(31) 102010019248
(32) 03.05.2010
(33) Germany

(51) B27B 17/04
B27B 17/12
(11) EP3233401
(21) EP14811928.2
(47) 26.01.2022
(87) EP2014077728
23.06.2016
(22) 15.12.2014
(54) CHAIN SAW
(73) Husqvarna AB
(72) JOHANSSON, Jörgen

(51) B27B 17/14
(11) EP3385045
(21) EP17400017.4
(47) 26.01.2022
(22) 04.04.2017
(54) POWER CHAIN SAW
(73) Andreas Stihl AG & Co. KG
(72) Fricker, Andreas
Zimmermann, Helmut
Gerstenberger, Oliver

(51) B27D 1/04
C08L 91/00
B27K 3/02
B05D 7/06
(11) EP3566837
(21) EP19172686.8
(47) 26.01.2022
(22) 06.05.2019
(54) A METHOD FOR TREATING A PLYWOOD BOARD AND A PLYWOOD BOARD
(73) UPM Plywood Oy
(72) HÄRKÖNEN, Riku
KOSKI, Anna
(31) 20184089 U
(32) 07.05.2018
(33) Finland

(51) B27N 9/00
B27N 3/00
B27N 3/12
B27N 3/04
E04B 1/76
E04B 1/74
E04B 1/94
(11) EP3323576
(21) EP17201181.9
(47) 26.01.2022
(22) 10.11.2017
(54) METHOD FOR THE PREPARATION OF FIRE-RETARDANT INSULATING PANELS/MATS ON THE BASIS OF RENEWABLE RESOURCES
(73) GUTEX Holzfaserplattenwerk H. Henselmann GmbH + Co KG
(72) Ehsaei, Hossein
Khamis, Warda
Fehrenbach, Ulrich
Kirsch, Alexander Dr.
(31) 102016121590
(32) 10.11.2016
(33) Germany

(51) B28D 1/22
B28D 7/04
(11) EP3272486
(21) EP16767793.9
(47) 26.01.2022
(87) ES2016070118
29.09.2016
(22) 24.02.2016
(54) BASE FOR MANUAL CERAMIC CUTTERS
(73) Germans Boada, S.A.
(72) SOLER BALCELLS, Jordi
(31) 201500227
(32) 20.03.2015
(33) Spain

(51) B29B 15/02
B29K 7/00
(11) EP3442764
(21) EP17715184.2
(47) 26.01.2022
(87) EP2017058329
19.10.2017
(22) 07.04.2017
(54) DOSAGE CONTROL IN THE MANUFACTURE OF TIRES
(73) Compagnie Générale des Etablissements Michelin
(72) FAVRO, Gwenael
LAFOND, Sébastien
(31) 1653156
(32) 11.04.2016
(33) France

(51) B29B 15/02
B29K 7/00
(11) EP3442765
(21) EP17716209.6
(47) 26.01.2022
(87) EP2017058328
19.10.2017
(22) 07.04.2017
(54) DOSAGE CONTROL IN THE MANUFACTURE OF TIRES
(73) Compagnie Générale des Etablissements Michelin
(72) LAFOND, Sébastien
TOURNEBIZE, Aurélien
(31) 1653157
(32) 11.04.2016
(33) France

(51) B29B 15/14
B29B 9/14
C08J 3/12
C08J 5/06
B29B 15/12
B29C 45/00
(11) EP3536472
(21) EP17867149.1
(47) 26.01.2022
(87) JP2017037589
11.05.2018
(22) 17.10.2017
(54) ASSEMBLY OF MOLDING MATERIALS, AND METHOD FOR PRODUCING ASSEMBLY OF MOLDING MATERIALS
(73) Teijin Limited
(72) HUA, Guofei
KOBAYASHI, Daisuke
(31) 2016214221
(32) 01.11.2016
(33) Japan

(51) B29C 33/02
B29C 33/38
B29C 35/02
B29K 21/00
B29K 105/24
B29L 30/00
B29D 30/06
(11) EP3378618
(21) EP16865990.2
(47) 26.01.2022
(87) JP2016076191
26.05.2017
(22) 06.09.2016
(54) TIRE VULCANIZING MOLD AND METHOD FOR MANUFACTURING THEREOF
(73) Bridgestone Corporation
(72) ISHIHARA, Yasuyuki
(31) 2015226771
(32) 19.11.2015
(33) Japan

(51) B29C 43/14
B29C 69/02
B29C 65/04
B29C 65/44
B29C 35/08
B29C 35/12
B29C 65/74
B29C 65/00
B44C 3/02
B44C 3/08
B29C 65/78
B29C 69/00
B44C 1/14
B29C 43/04
B29C 43/40
B29K 105/00
B29L 31/00
B29K 27/06
(11) EP3747638
(21) EP19794405.1
(47) 26.01.2022
(87) JP2019016911
29.10.2020
(22) 22.04.2019
(54) PRODUCTION METHOD FOR THREE-DIMENSIONAL THERMOPLASTIC SYNTHETIC RESIN EMBLEM
(73) Kuroda, Takeshi
(72) Kuroda, Takeshi

(51) B29C 43/18
B29C 43/10
B29C 43/52
B64F 5/00
B29K 101/10
B29K 105/08
B29C 70/44
B29C 43/12
B29C 65/02
B29L 31/30
B29L 31/08
B29D 99/00
(11) EP2946902
(21) EP13872030.5
(47) 26.01.2022
(87) JP2013083893
24.07.2014
(22) 18.12.2013
(54) METHOD FOR PRODUCING COMPOSITE MATERIAL
(73) Mitsubishi Heavy Industries, Ltd.
(72) HATTORI, Hidetaka
WATANABE, Akihisa
HAYASHI, Noriya
(31) 2013007628
(32) 18.01.2013
(33) Japan

(51) B29C 44/24
B29C 35/08
B29C 48/00
B29C 48/21
(11) EP3421213
(21) EP18180821.3
(47) 26.01.2022
(22) 29.06.2018
(54) METHOD OF MAKING COEXTRUDED, CROSSLINKED MULTILAYER POLYOLEFIN FOAM STRUCTURES FROM RECYCLED CROSSLINKED POLYOLEFIN FOAM MATERIAL
(73) Toray Plastics (America), Inc.
(72) Sieradzki, Pawel
Ben-Daat, Ben
Baldwin, Jesse Jude
Bishop, Kenneth Winston
Bock, Kaitlyn Michelle
(31) 201715637723
(32) 29.06.2017
(33) United States of America

(51) B29C 44/42
B29C 44/34
B29C 45/77
(11) EP3782789
(21) EP20191149.2
(47) 26.01.2022
(22) 14.08.2020
(54) INJECTION FOAM MOLDING METHOD
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
(72) KANDORI, Hirokazu
SUGIMURA, Kikuo
KAMEYAMA, Tsuyoshi
FUKUTA, Taro
(31) 2019150828
(32) 21.08.2019
(33) Japan

(51) B29C 45/17
B29C 45/03
B29C 45/07
B29C 45/10
B29C 65/70
B62D 29/00
B29C 45/14
(11) EP3797023
(21) EP19721836.5
(47) 26.01.2022
(87) IB2019052736
28.11.2019
(22) 03.04.2019
(54) INJECTION MOULDING SYSTEM AND INJECTION MOULDING METHOD
(73) ARKAL AUTOMOTIVE C.S. LTD.
(72) BEN HORIN, Amitai
(31) 201862674245 P
(32) 21.05.2018

(33) United States of America

(51) B29C 45/27
(11) EP3725489
(21) EP20169796.8
(47) 26.01.2022
(22) 16.04.2020
(54) HOT RUNNER SYSTEM
(73) Mold-Masters (2007) Limited
(72) BAJWA, Gurvinder
URSU, Douglas
BABIN, Denis
(31) 201962835219 P
(32) 17.04.2019
(33) United States of America

(51) B29C 48/42
B29C 48/76
B29B 17/00
B29C 48/00
B29C 48/60
B29L 31/00
B29K 67/00
(11) EP3501785
(21) EP19154277.8
(47) 26.01.2022
(22) 17.11.2015
(54) METHODS FOR MANUFACTURING BULKED CONTINUOUS FILAMENT
(73) Aladdin Manufacturing Corporation
(72) CLARK, Thomas R.
(31) 201414546819
(32) 18.11.2014
(33) United States of America

(51) B29C 49/46
B29C 49/12
B29C 49/06
B29K 67/00
B29K 23/00
B29L 31/00
(11) EP3685985
(21) EP18859579.7
(47) 26.01.2022
(87) JP2018030199
28.03.2019
(22) 13.08.2018
(54) LIQUID-CONTAINING CONTAINER MANUFACTURING METHOD
(73) Yoshino Kogyosho Co., Ltd.
(72) OKUYAMA, Yuichi
SUYAMA, Kenichi
HOSHINO, Hideaki
(31) 2017180622
2017180621
(32) 20.09.2017
20.09.2017
(33) Japan
Japan

(51) B29C 49/48
B29C 49/06
B29C 49/28
B29C 49/36
B29K 67/00
B29L 31/00
(11) EP3727795
(21) EP18839688.1
(47) 26.01.2022
(87) FR2018053197
27.06.2019
(22) 11.12.2018
(54) HALF-MOULD HAVING A CYLINDRICAL ASSEMBLY FACE AND PRODUCTION METHOD
(73) Sidel Participations
(72) HELLOUIN, Damien
ALIX, Olivier
TOUTOUX, Alexandre
BIANCHINI, Cédric
(31) 1762929
(32) 22.12.2017
(33) France

(51) B29C 64/00
B33Y 80/00
(11) EP3538346
(21) EP17797129.8
(47) 26.01.2022
(87) EP2017078438
17.05.2018
(22) 07.11.2017
(54) FILLED CAVITY THREE-DIMENSIONAL PRINTED OBJECTS AND METHODS FOR PRODUCTION
(73) Koninklijke Philips N.V.
(72) VOGTMEIER, Gereon
(31) 201662418835 P
(32) 08.11.2016
(33) United States of America

(51) B29C 65/08
(11) EP3581369
(21) EP19178436.2
(47) 26.01.2022
(22) 05.06.2019
(54) A METHOD FOR SEALING TOGETHER A FIRST SECTION AND A SECOND SECTION OF A PACKAGING MATERIAL, A SYSTEM FOR SEALING
(73) Tetra Laval Holdings & Finance S.A.
(72) ALEXANDERSSON, Martin
(31) 18177294
(32) 12.06.2018
(33) European Patent Office (EPO)

(51) B29C 65/18
B29C 65/30
B29C 65/74
B29C 65/78
B65B 7/16
B65B 11/52
B65B 51/14
B65B 59/04
(11) EP3802070
(21) EP19733141.6
(47) 26.01.2022
(87) IB2019054369
05.12.2019
(22) 27.05.2019
(54) MOULD FOR A HEAT-SEALING MACHINE
(73) Caveco S.r.l.
(72) VELLUTINI, Franco
(31) 201800005808
(32) 29.05.2018
(33) Italy

(51) B29C 65/32
C09J 5/06
H05B 6/10
B29C 65/00
H05B 6/36
F16B 11/00
B29C 65/48
B29C 65/36
H05B 6/14
H05B 6/42
(11) EP2626191
(21) EP13000633.1
(47) 26.01.2022
(22) 07.02.2013
(54) Induction gluing system, induction units, temperature compensation method and self-adjusting method
(73) GH-Induction Deutschland GmbH
(72) Schölch, Frank
Gattermeier, Helmut
Bißdorf, Richard
Kasper, Christian
Balss, Andreas
Siefert, Willy
(31) 102012002404
(32) 09.02.2012
(33) Germany

(51) B29C 67/00
B22F 3/105
B33Y 30/00
B33Y 10/00
(11) EP3487688
(21) EP17729874.2
(47) 26.01.2022
(87) EP2017064532
25.01.2018
(22) 14.06.2017
(54) PROTECTION ELEMENT
(73) Sintratec AG
(72) ZELTNER, Joscha
VON BURG, Christian
SOLENICKI, Dominik
(31) 16180451
(32) 20.07.2016
(33) European Patent Office (EPO)

(51) B29C 67/00
B33Y 30/00
B33Y 40/00
(11) EP3386722
(21) EP16722666.1
(47) 26.01.2022
(87) EP2016060801
16.11.2017
(22) 12.05.2016
(54) OUTLET STRUCTURE
(73) Hewlett-Packard Development Company, L.P.
(72) CHANCLON, Ismael
ALONSO, Xavier
JONES POPPESCOU, Ernesto Alejandro

(51) B29C 67/00
C08G 65/40
C08L 71/00
(11) EP3705272
(21) EP20162439.2
(47) 26.01.2022
(22) 26.09.2016
(54) POLYMERIC MATERIALS
(73) Victrex Manufacturing Limited
(72) TAHSIN, Ulutan
CHAPLIN, Adam
(31) 201516943
(32) 24.09.2015

(33) United Kingdom

(51) B29C 70/38
B29C 70/32
B29C 70/20
B29K 21/00
B29B 15/12
B29B 15/14
B29C 53/80
B29K 23/00
(11) EP2529918
(21) EP12169527.4
(47) 26.01.2022
(22) 25.05.2012
(54) Method and assembly for applying an endless fibre to an object
(73) KUKA Industries GmbH
(72) Zimmermann, Dirk
Bischof, Thomas
(31) 102011050780
(32) 31.05.2011
(33) Germany

(51) B29C 70/52
(11) EP3691880
(21) EP18778530.8
(47) 26.01.2022
(87) EP2018076832
11.04.2019
(22) 02.10.2018
(54) PULTRUSION METHOD FOR PRODUCING FIBRE-REINFORCED PLASTIC PROFILES AND PULTRUSION DEVICE
(73) Covestro Intellectual Property GmbH & Co. KG
KraussMaffei Technologies GmbH
(72) REMMEL, Jochen
BRÜNING, Dirk
KILIAN, Benedikt
(31) 17195206
(32) 06.10.2017
(33) European Patent Office (EPO)

(51) B29C 70/54
B29C 70/48
(11) EP3715081
(21) EP19754442.2
(47) 26.01.2022
(87) JP2019004983
22.08.2019
(22) 13.02.2019
(54) METHOD FOR PRODUCING COMPOSITE MATERIAL
(73) Mitsubishi Heavy Industries, Ltd.
(72) TOKUTOMI, Hiroshi
SHIMONO, Kodai
(31) 2018022782
(32) 13.02.2018
(33) Japan

(51) B29C 71/02
B29D 7/01
C08J 5/18
H05B 3/14
H05B 3/18
H05B 3/36
B29C 35/02
B64D 15/12
B29K 105/16
B29K 105/18
(11) EP3332952
(21) EP17205956.0
(47) 26.01.2022
(22) 07.12.2017
(54) REDUCING CNT RESISTIVITY BY ALIGNING CNT PARTICLES IN FILMS
(73) Goodrich Corporation
(72) BOTURA, Galdemir Cezar
CHING, Nathaniel
HU, Jin
SLANE, Casey
(31) 201615373371
(32) 08.12.2016
(33) United States of America

(51) B29C 73/30
B29C 70/44
B29C 43/12
B29C 43/36
B29C 73/12
(11) EP3305511
(21) EP16192782.7
(47) 26.01.2022
(22) 07.10.2016
(54) SYSTEM AND METHOD FOR CURING POLYMER MATRIX COMPOSITE PARTS IN MANUFACTURING AND REPAIRING PROCESSES
(73) Airbus Operations S.L.
(72) Rodriguez Bellido, Ana
Cuenca Rincón, Jose
Salamero Laorden, Juan

(51) B29D 11/00
G02C 11/02
G02C 7/02
A44C 17/04
(11) EP2930013
(21) EP15162314.7
(47) 26.01.2022
(22) 02.04.2015
(54) METHOD OF PRODUCING A SPECTACLE LENS HAVING A JEWELLERY ELEMENT
(73) Metamaterial Inc.
(72) Pfeffer, Frank
Weiteneder, Christophe
(31) 5652014
(32) 11.04.2014
(33) Switzerland

(51) B29D 30/06
B29C 33/44
B29C 33/46
(11) EP3554813
(21) EP17811612.5
(47) 26.01.2022
(87) EP2017082525
21.06.2018
(22) 13.12.2017
(54) TREAD STRIP CURING MOULD
(73) Bridgestone Corporation
(72) IOZIA, Francesco
(31) 201600126146
(32) 14.12.2016
(33) Italy

(51) B29D 30/30
B29D 30/26
(11) EP3495131
(21) EP18198526.8
(47) 26.01.2022
(22) 04.10.2018
(54) DEVICE AND METHOD FOR WINDING A BELT CONSTRUCTION STRIP FOR FORMING A BELT OF A PNEUMATIC TYRE FOR A VEHICLE ON A BELT CONSTRUCTION DRUM
(73) Continental Reifen Deutschland GmbH
(72) Mouliom, Herve
Albers, Oliver
Scheuer, Renke
(31) 102017222372
(32) 11.12.2017
(33) Germany

(51) B30B 11/00
B30B 11/08
B30B 15/02
(11) EP2707211
(21) EP12721164.7
(47) 26.01.2022
(87) EP2012001691
15.11.2012
(22) 19.04.2012
(54) METHOD FOR OPERATING A PLANT FOR PRODUCING TABLETS
(73) Fette Compacting GmbH
(72) MEIER, Matthias
LÜDEMANN, Stefan
(31) 102011101288
(32) 10.05.2011
(33) Germany

(51) B32B 1/00
B32B 7/022
B32B 27/08
B32B 27/30
B32B 27/32
B32B 27/36
B32B 27/40
B32B 37/00
B44C 3/02
H05K 5/00
(11) EP3756877
(21) EP20181453.0
(47) 26.01.2022
(22) 22.06.2020
(54) HOUSING ASSEMBLY, METHOD FOR MANUFACTURING HOUSING ASSEMBLY, AND ELECTRONIC DEVICE
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(72) YANG, Guangming
BI, Sipeng
HOU, Tibo
(31) 201920991825 U
201910568846
(32) 27.06.2019
27.06.2019
(33) China
China

(51) B32B 1/08
B32B 3/12
B32B 3/28
B32B 7/08
B32B 7/12
B32B 15/04
B32B 15/18
B61B 13/10
B32B 5/18
B32B 5/20

B32B 3/04
B32B 3/18
(11) EP3755530
(21) EP19701882.3
(47) 26.01.2022
(87) EP2019052577
29.08.2019
(22) 04.02.2019
(54) EVACUATED TUBE TRANSPORT SYSTEM TUBE
(73) Tata Steel Nederland Technology B.V.
(72) DE VRIES, Paul, Alexander
DAVIES, Colin, Michael
(31) 18158491
(32) 24.02.2018
(33) European Patent Office (EPO)

(51) B32B 1/08
B32B 25/04
B32B 25/14
C08L 23/16
F16L 11/08
(11) EP3666516
(21) EP19213053.2
(47) 26.01.2022
(22) 03.12.2019
(54) FLUID CONDUIT FOR GUIDING A FLUID
(73) VERITAS AG
(72) VAN HOOREN, Marc
FINK, Hans-Joachim
(31) 102018131917
(32) 12.12.2018
(33) Germany

(51) B32B 3/12
B32B 7/12
B32B 15/08
B32B 27/08
B32B 27/28
B32B 27/30
B32B 27/36
(11) EP3822073
(21) EP19383001.5
(47) 26.01.2022
(22) 14.11.2019
(54) FIREPROOF AND THERMAL INSULATOR PRODUCT
(73) Airbus Operations, S.L.
(72) INIESTA LOZANO, Fernando
HERNAIZ LOPEZ, Guillermo
VAZQUEZ DE CASTRO, Jesus Javier
ARANA HIDALGO, Alberto
GUERRERO MARTIN, Javier
BALLESTERO MENDEZ, Jorge
KEMPF, Manuel
BUTRAGUEÑO MARTINEZ, Asuncion

(51) B32B 3/26
B32B 27/08
B32B 27/32
B32B 27/16
B32B 27/18
B32B 27/20
(11) EP3615324
(21) EP18718107.8
(47) 26.01.2022
(87) EP2018000173
01.11.2018
(22) 09.04.2018
(54) POLYMER FILM FOR IN-MOLD LABELING
(73) Treofan Germany GmbH & Co. KG
(72) WEIS, Katja
SCHMIDT, Sandra
DÜPRE, Yvonne
(31) 102017003962
(32) 25.04.2017
(33) Germany

(51) B32B 5/02
B32B 5/18
B32B 5/24
B32B 7/12
B32B 27/12
B32B 27/36
B32B 27/40
D01D 5/34
D04H 1/541
(11) EP3668710
(21) EP19782935.1
(47) 26.01.2022
(87) EP2019075844
07.05.2020
(22) 25.09.2019
(54) COMPOSITE FILM
(73) Ewald Dörken AG
(72) BACHON, Thomas
(31) 102018008585
(32) 31.10.2018
(33) Germany

(51) B32B 7/02
A41D 13/05
B32B 5/02
B32B 5/18
B32B 5/24
B32B 5/32
B32B 7/12
B32B 27/06
B32B 27/08
B32B 27/12
(11) EP3402666
(21) EP17705979.7
(47) 26.01.2022
(87) US2017013284
20.07.2017
(22) 13.01.2017
(54) REMOLDABLE IMPACT-ATTENUATION ARTICLE
(73) Nike Innovate C.V.
(72) TURNER, David
HAWES, Jeff
HENRY, Ryan P.
(31) 201715404406
201662278973 P
(32) 12.01.2017
14.01.2016
(33) United States of America
United States of America

(51) B32B 7/06
B32B 7/12
B32B 27/08
B32B 27/16
B32B 27/26
B32B 27/30
B32B 27/36
B32B 27/40
B32B 3/26
B32B 3/02
C09D 175/16
C08F 290/14
C08G 18/24
C08G 18/67
C08G 18/78
C08G 18/79
C08K 3/08
(11) EP3723977
(21) EP18842461.8
(47) 26.01.2022
(87) IB2018059776
20.06.2019
(22) 07.12.2018
(54) COMPOSITE FILM, PROTECTIVE COVER FOR AN ELECTRONIC DEVICE, AND METHODS OF MAKING THE SAME
(73) 3M Innovative Properties Company
(72) POKORNY, Richard J.
ZHANG, Chunjie
SONNEK, Benjamin G.
COONCE, Benjamin R.
WU, Jung-Sheng
KLUN, Thomas P.
AMBUR, Gregg A.
(31) 201762597524 P
(32) 12.12.2017
(33) United States of America

(51) B32B 13/12
B32B 17/10
B32B 5/02
B32B 13/04
B32B 13/14
E04C 2/288
(11) EP3590707
(21) EP18761367.4
(47) 26.01.2022
(87) ES2018070077
07.09.2018
(22) 01.02.2018
(54) FIREPROOF, NON-TOXIC DECORATIVE PANEL FOR INDOOR AND/OR OUTDOOR USE
(73) Leva Candela, Jose Juan
(72) Leva Candela, Jose Juan
(31) 201730265
(32) 28.02.2017
(33) Spain

(51) B32B 17/06
C08F 287/00
C09J 4/06
C08F 4/34
C09D 4/06
(11) EP3359616
(21) EP16785062.7
(47) 26.01.2022
(87) US2016055975
13.04.2017
(22) 07.10.2016
(54) ADHESIVE COMPOSITIONS WITH REPAIR-REWORK ABILITY
(73) Illinois Tool Works Inc.
(72) WENG, Camus
CARBUTT, Peter, A.
LI, Welkin
DOE, Daniel, K.
ZHAO, Frank
(31) 201615270541

201562238264 P
(32) 20.09.2016
07.10.2015
(33) United States of America
United States of America

(51) B32B 17/10
G02B 27/01
C03C 27/12
B60J 1/02
(11) EP3381880
(21) EP16868509.7
(47) 26.01.2022
(87) JP2016084494
01.06.2017
(22) 21.11.2016
(54) LAMINATED GLASS
(73) AGC Inc.
(72) SADAKANE, Shunsuke
(31) 2015228631
(32) 24.11.2015
(33) Japan

(51) B32B 17/10
G02F 1/1333
(11) EP3687793
(21) EP18833228.2
(47) 26.01.2022
(87) EP2018086373
25.06.2020
(22) 20.12.2018
(54) VEHICLE PANE INCORPORATING A COMPOSITE STRUCTURE COMPRISING A LIQUID CRYSTAL ARRANGEMENT
(73) Webasto SE
(72) LORENZ, Steffen
DIETRICH, Jonas
BUCHMANN, Max
BROSE, Daniel
LEE, Seongmin
JEON, Byoung Kun
DIETRICH, Sascha
BAIERL, Daniela

(51) B32B 17/10
G06K 9/00
G02B 27/01
(11) EP3458259
(21) EP17726805.9
(47) 26.01.2022
(87) US2017033327
23.11.2017
(22) 18.05.2017
(54) WINDOW ASSEMBLY FOR VEHICLE WITH VARIABLE THICKNESS PROFILE ASSOCIATED WITH FRONT-FACING CAMERA
(73) AGC Automotive Americas R & D, Inc.
AGC Flat Glass North America, Inc.
(72) BYRNE, Colin
(31) 201662338760 P
(32) 19.05.2016
(33) United States of America

(51) B32B 21/06
B32B 21/14
B27D 1/00
B32B 37/10
B32B 37/16
E04C 2/10
E04C 2/24
E04F 15/10
B32B 37/18
B32B 38/06
(11) EP3822077
(21) EP19208674.2
(47) 26.01.2022
(22) 12.11.2019
(54) METHOD FOR PRODUCING A VENEERED PLATE
(73) Flooring Technologies Ltd.
(72) Siems, Jens
Kalwa, Dr. Norbert

(51) B32B 27/32
(11) EP2938489
(21) EP13805397.0
(47) 26.01.2022
(87) EP2013076686
03.07.2014
(22) 16.12.2013
(54) PLASTIC FILM
(73) Coveris Flexibles Austria GmbH
(72) BOLOM, Wolfgang
WILDINGER, Martin
VOLLMER, Jan-Thorsten
(31) 13462012
(32) 27.12.2012
(33) Austria

(51) B32B 27/32
B32B 27/06
B65D 30/08
B65D 13/00
B65D 65/40
B32B 7/12
B32B 27/08
B65D 65/00
(11) EP3733408
(21) EP19856437.9
(47) 26.01.2022
(87) CN2019087726
10.09.2020
(22) 21.05.2019
(54) RECYCLABLE POLYOLEFIN METALLIZED COMPOSITE FILM AND PREPARATION METHOD THEREFOR
(73) Nanjing Hujiang Composite Materials Co., Ltd.
(72) ZHANG, Yujun
ZHANG, Cheng
(31) 201910163745
(32) 05.03.2019
(33) China

(51) B32B 27/32
B32B 27/36
C09J 7/20
C09J 123/02
C09J 123/30
H01M 10/0525
H01M 50/105
H01M 50/193
H01M 50/197
H01M 50/198
H01M 50/178
H01M 50/183
H01M 50/172
C09J 151/06
C09J 7/30
B32B 7/12
B32B 27/08
B32B 27/20
B32B 27/28
B32B 27/30
B32B 27/38
(11) EP3660941
(21) EP18839237.7
(47) 26.01.2022
(87) JP2018027468
31.01.2019
(22) 23.07.2018
(54) ADHESIVE FILM FOR METAL TERMINALS, METAL TERMINAL WITH ADHESIVE FILM FOR METAL TERMINALS ATTACHED THERETO, BATTERY COMPRISING ADHESIVE FILM FOR METAL TERMINALS, AND METHOD FOR PRODUCING BATTERY
(73) Dai Nippon Printing Co., Ltd.
(72) NAGAI, Atsushi
OJIRI, Tetsuya
(31) 2017142710
(32) 24.07.2017
(33) Japan

(51) B32B 37/00
B32B 15/08
B32B 38/00
(11) EP3461267
(21) EP18722770.7
(47) 26.01.2022
(87) US2018025121
04.10.2018
(22) 29.03.2018
(54) SURFACE ROUGHENING OF POLYMER FILMS
(73) Novelis Inc.
(72) RUPARELIA, Dhiren Bhupatlal
TUSSING, Christian
PRESTON, Andy
PRINZHORN, Heinrich
(31) 201762478793 P
(32) 30.03.2017
(33) United States of America

(51) B32B 37/14
B32B 38/08
B29C 43/22
B29C 51/12
B29C 59/00
E04D 3/28
(11) EP3473439
(21) EP18201261.7
(47) 26.01.2022
(22) 18.10.2018
(54) MANUFACTURING PROCESS FOR MANUFACTURING A REINFORCED PANEL SUITABLE TO FORM A COVERING IN A BUILDING
(73) DOTT. GALLINA S.r.l.
(72) GALLINA David
(31) 201700117950
(32) 18.10.2017
(33) Italy

(51) B41F 15/08
B41F 15/36
B41F 15/46
H01L 31/18
H05K 3/12
(11) EP3715123
(21) EP20164073.7

(47) 26.01.2022
(22) 19.03.2020
(54) SQUEEGEE DEVICE FOR PRODUCING CONDUCTIVE LINES OF A PHOTOVOLTAIC CELL
(73) Commissariat à l'énergie atomique et aux énergies alternatives
(72) JERONIMO, Pedro
REY, Nicolas
(31) 1903062
(32) 25.03.2019
(33) France

(51) B41F 33/00
B41F 33/02
B41F 13/004
B41F 21/12
B41F 21/06
B41F 19/00
(11) EP3894225
(21) EP20729696.3
(47) 26.01.2022
(87) EP2020064835
21.01.2021
(22) 28.05.2020
(54) PROCESSING MACHINE FOR PROCESSING SHEETS, AND METHOD FOR PROCESSING SHEETS
(73) Koenig & Bauer AG
(72) GELDHAUSER, Rudolf
SCHNEIDER, Thomas
BERNARD, Andreas
MÜLLER, Torsten
(31) 102019119372
(32) 17.07.2019
(33) Germany

(51) B41F 35/04
B41F 35/00
G03G 15/11
G03G 15/08
G03G 15/10
(11) EP3317107
(21) EP16888468.2
(47) 26.01.2022
(87) US2016015635
03.08.2017
(22) 29.01.2016
(54) MOUNTING SURFACES FOR WIPER BLADES
(73) HP INDIGO B.V.
(72) NELSON, Eric G.
COHEN, Lavi

(51) B41J 2/045
(11) EP3098073
(21) EP15739806.6
(47) 26.01.2022
(87) JP2015050489
30.07.2015
(22) 09.01.2015
(54) IMAGE FORMATION DEVICE
(73) Konica Minolta, Inc.
(72) TAKEYA, Akira
(31) 2014011356
(32) 24.01.2014
(33) Japan

(51) B41J 2/045
(11) EP3478505
(21) EP17736728.1
(47) 26.01.2022
(87) GB2017051906
04.01.2018
(22) 29.06.2017
(54) DROPLET DEPOSITION APPARATUS
(73) Xaar Technology Limited
(72) MASSUCCI, Mario
(31) 201611489
(32) 30.06.2016
(33) United Kingdom

(51) B41J 2/18
B41J 2/14
B41J 2/145
(11) EP2822772
(21) EP13757404.2
(47) 26.01.2022
(87) US2013029213
12.09.2013
(22) 05.03.2013
(54) RECIRCULATION OF INK
(73) Fujifilm Dimatix, Inc.
(72) SMITH, Bailey
KELLY, John
MCDONALD, Marlene
LETENDRE, William R .
AUBREY, Matthew
HERRICK, Darrell
WELLS, Robert, L.
HASENBEIN, Robert A.
(31) 201261606709 P
201261606880 P
(32) 05.03.2012
05.03.2012
(33) United States of America
United States of America

(51) B41J 2/335
B41J 2/345
(11) EP2939838
(21) EP13867197.9
(47) 26.01.2022
(87) JP2013084816
03.07.2014
(22) 26.12.2013
(54) THERMAL HEAD AND THERMAL PRINTER PROVIDED WITH SAME
(73) Kyocera Corporation
(72) NODA, Ayumi
YAMAMOTO, Yasumitsu
MITSUOKA, Tadashi
(31) 2012286796
(32) 28.12.2012
(33) Japan

(51) B41J 2/47
B41J 3/00
G01S 17/42
G01S 7/481
G02B 26/08
G02B 26/10
G06K 15/12
H04N 1/23
(11) EP3418057
(21) EP18174042.4
(47) 26.01.2022
(22) 24.05.2018
(54) OPTICAL SCANNING DEVICE
(73) Funai Electric Co., Ltd.
(72) Hamaoka, Mika
Masuda, Yuichiro
Inoda, Takeshi
(31) 2017119255
(32) 19.06.2017
(33) Japan

(51) B41J 3/407
B41J 2/01
C09D 11/30
C09D 11/322
C09D 11/54
C09D 11/102
D06P 5/30
D06P 1/52
C09D 11/10
B41M 5/00
D06P 1/44
D06P 1/642
C09D 11/38
D06P 1/673
(11) EP3762238
(21) EP18923767.0
(47) 26.01.2022
(87) US2018040008
02.01.2020
(22) 28.06.2018
(54) INKJET PRE-TREATMENT FLUID FOR TEXTILE PRINTING
(73) Hewlett-Packard Development Company, L.P.
(72) GUO, Dennis Z.
ZHENG, Jie

(51) B41J 3/407
B41J 11/00
B65G 63/00
(11) EP3615343
(21) EP18723068.5
(47) 26.01.2022
(87) IB2018052851
01.11.2018
(22) 24.04.2018
(54) INDEPENDENT PRINT DATUM DETECTION
(73) Pad Print Machinery of Vermont, Inc.
(72) BELVAL, Mark
LESSARD, Ben
(31) 201762489255 P
(32) 24.04.2017
(33) United States of America

(51) B41J 3/407
B41J 11/70
B26D 1/02
B26D 1/08
B26D 5/08
B41J 11/66
B26D 1/00
(11) EP3505355
(21) EP17211267.4
(47) 26.01.2022
(22) 31.12.2017
(54) CUTTING DEVICE FOR CONTINUOUS LABELS
(73) Bizerba SE & Co. KG
(72) Dehner, Moritz
Hirsch, Alexander

(51) B41J 11/00
B41J 11/02
B41J 11/22
G01V 8/10
B41J 11/08
(11) EP3337669

(21) EP15911619.3
(47) 26.01.2022
(87) US2015067296
29.06.2017
(22) 22.12.2015
(54) PRINT MEDIA PRESSURE PLATES
(73) Hewlett-Packard Development Company, L.P.
(72) BOUCHER, Peter J,
SOSNOWSKI, Luke P,
CAROTHERS, Jason Y,
HARWOOD, Warren

(51) B41J 11/66
(11) EP3450187
(21) EP18190362.6
(47) 26.01.2022
(22) 23.08.2018
(54) PRINT CONTROLLER
(73) Canon Production Printing Holding B.V.
(72) LEYMARIE, Vincent
SEMOUCHINE, Lioudmila
(31) 17189002
(32) 01.09.2017
(33) European Patent Office (EPO)

(51) B41J 15/04
B41J 11/00
B41J 29/02
B41J 29/48
B65H 16/02
(11) EP3178657
(21) EP15829437.1
(47) 26.01.2022
(87) JP2015071861
11.02.2016
(22) 31.07.2015
(54) PRINTER DEVICE AND METHOD FOR DETECTING NEAR-END STATE OF PRINTER DEVICE RECORDING PAPER
(73) Fujitsu Component Limited
(72) WATANABE, Sumio
TAKABATAKE, Yoshinari
CHIBA, Masafumi
(31) 2014177316
2014160774
(32) 01.09.2014
06.08.2014
(33) Japan
Japan

(51) B41J 15/04
B41J 25/00
(11) EP3377327
(21) EP16795082.3
(47) 26.01.2022
(87) EP2016077661
26.05.2017
(22) 15.11.2016
(54) PRINTING ASSEMBLY AND METHOD FOR OPERATING A PRINTING ASSEMBLY
(73) Koenig & Bauer AG
(72) SCHLUND, Christian
FÖRTIG, Klaus
BLANK, Alexander
BAUMEISTER, Thomas
RUMPEL, Andreas
WALTER, Patrick
(31) 102015222622
(32) 17.11.2015
(33) Germany

(51) B41M 1/12
B41F 15/18
B41F 33/12
B41F 33/14
B41F 15/36
B41F 33/02
(11) EP3509861
(21) EP17849771.5
(47) 26.01.2022
(87) US2017051164
15.03.2018
(22) 12.09.2017
(54) ALIGNMENT INDICATOR FOR REGISTERING SYSTEM
(73) M&R Printing Equipment, Inc.
(72) HOFFMAN, JR., Richard C.
TKACZ, Darek
FALK, Keith R.
OLESON, Andrew L.
(31) 201715700672
201662393290 P
(32) 11.09.2017
12.09.2016
(33) United States of America
United States of America

(51) B41M 5/025
B41M 5/52
B41M 7/00
B44C 1/17
(11) EP3374196
(21) EP16894765.3
(47) 26.01.2022
(87) US2016023190
21.09.2017
(22) 18.03.2016
(54) TRANSFERRING IMAGES
(73) Hewlett-Packard Development Company, L.P.
(72) KNIGHT, Douglas
ALFEKRI, Dheya
SELENSKY, Ronald J.

(51) B42D 1/00
(11) EP3697622
(21) EP18796773.2
(47) 26.01.2022
(87) IB2018058076
25.04.2019
(22) 18.10.2018
(54) A METHOD AND SYSTEM FOR THE PAGINATION OF A PRINTED PUBLICATION, AND PRINTED PUBLICATION OBTAINED THEREOF
(73) Castelão Soares, Marco António
(72) Castelão Soares, Marco António
(31) 2017110358
(32) 18.10.2017
(33) Portugal

(51) B42D 25/328
B42D 25/36
(11) EP3825139
(21) EP20203099.5
(47) 26.01.2022
(22) 21.10.2020
(54) ANTICOUNTERFEIT MULTILAYER DEVICE
(73) Centro Grafico DG S.p.A.
(72) RADICE, Dino
(31) 201900021966
(32) 22.11.2019
(33) Italy

(51) B42D 25/351
(11) EP3600904
(21) EP18711578.7
(47) 26.01.2022
(87) EP2018057388
27.09.2018
(22) 23.03.2018
(54) SECURITY FOIL
(73) Authentic Vision GmbH
(72) WEISS, Thomas
HUPRICH, Philip
BERGMÜLLER, Thomas
(31) 17162789
(32) 24.03.2017
(33) European Patent Office (EPO)

(51) B42D 25/351
B42D 25/369
(11) EP3351400
(21) EP18157231.4
(47) 26.01.2022
(22) 21.06.2013
(54) SECURITY ELEMENT AND PROTECTED DOCUMENT
(73) Oberthur Fiduciaire SAS
(72) CAMUS, Michel
(31) 1255963
(32) 22.06.2012
(33) France

(51) B60B 1/04
(11) EP3755548
(21) EP18825880.0
(47) 26.01.2022
(87) EP2018083565
29.08.2019
(22) 05.12.2018
(54) SPOKED WHEEL FOR TUBELESS TIRES
(73) Bayerische Motoren Werke Aktiengesellschaft
(72) ADAM, Andreas
MOHR, Matthias
(31) 102018202660
(32) 22.02.2018
(33) Germany

(51) B60B 17/00
B61K 9/08
B61L 15/00
B61C 15/10
B61L 23/04
B60B 39/02
(11) EP3774485
(21) EP18785864.2
(47) 26.01.2022
(87) EP2018076315
21.11.2019
(22) 27.09.2018
(54) CONTROLLABLE TRACK CONDITIONING UNIT
(73) Siemens Mobility GmbH
(72) MEYER, Heiko
FEGE, Alexander
ROSSIG, Kilian
(31) 102018207751
(32) 17.05.2018

(33) Germany

(51) B60C 9/00
B60C 9/18
B60C 9/22
D02G 3/48
B60C 9/04
(11) EP3738790
(21) EP20166193.1
(47) 26.01.2022
(22) 27.03.2020
(54) REINFORCEMENT FOR A PNEUMATIC VEHICLE TYRE
(73) Continental Reifen Deutschland GmbH
(72) Reese, Wolfgang
(31) 102019207019
(32) 15.05.2019
(33) Germany

(51) B60C 11/03
B60C 11/11
B60C 11/12
(11) EP3715146
(21) EP20155052.2
(47) 26.01.2022
(22) 03.02.2020
(54) PNEUMATIC TYRE
(73) Continental Reifen Deutschland GmbH
(72) Schlittenhard, Jan
Vennebörger, Martin
Bauer, Claudia
(31) 102019204328
(32) 28.03.2019
(33) Germany

(51) B60C 11/04
B60C 1/00
B60C 11/12
B60C 11/03
B60C 11/00
(11) EP3707012
(21) EP18819527.5
(47) 26.01.2022
(87) FR2018052756
16.05.2019
(22) 07.11.2018
(54) TYRE HAVING A TREAD COMBINING INCLINED SIPES WITH A SPECIFIC MATERIAL
(73) Compagnie Générale des Etablissements Michelin
(72) VALLAT, Perrine
ZIVKOVIC, Tony
(31) 1760440
(32) 07.11.2017
(33) France

(51) B60C 11/11
B60C 11/13
(11) EP3616945
(21) EP19189558.0
(47) 26.01.2022
(22) 01.08.2019
(54) MOTORCYCLE TYRE FOR OFF-ROAD
(73) Sumitomo Rubber Industries, Ltd.
(72) KOBORI, Shuji
(31) 2018232827
2018160624
(32) 12.12.2018
29.08.2018
(33) Japan

Japan

(51) B60C 11/13
B60C 11/03
B60C 11/01
(11) EP3750723
(21) EP20172278.2
(47) 26.01.2022
(22) 30.04.2020
(54) PNEUMATIC TYRE
(73) Continental Reifen Deutschland GmbH
(72) Tomforde, Willem
Rittweger, Stefan
Neumann, Marcel
(31) 102019208593
(32) 13.06.2019
(33) Germany

(51) B60C 11/13
B60C 11/03
B60C 11/12
(11) EP3717282
(21) EP18773720.0
(47) 26.01.2022
(87) EP2018074241
06.06.2019
(22) 10.09.2018
(54) PNEUMATIC VEHICLE TYRE
(73) Continental Reifen Deutschland GmbH
(72) BAUER, Claudia
SCHLITTENHARD, Jan
BERGER, Christoph
WIESE, Klaus
(31) 102017221579
(32) 30.11.2017
(33) Germany

(51) B60C 11/16
(11) EP3380342
(21) EP16754495.6
(47) 26.01.2022
(87) EP2016069758
01.06.2017
(22) 22.08.2016
(54) PNEUMATIC VEHICLE TIRE
(73) Continental Reifen Deutschland GmbH
(72) SCHLITTENHARD, Jan
BERGER, Christoph
SENG, Matthias
KUMPULAINEN, Ari
RAUTIAINEN, Juha
(31) 102015223091
(32) 23.11.2015
(33) Germany

(51) B60C 23/04
(11) EP3565725
(21) EP17794411.3
(47) 26.01.2022
(87) IB2017056092
12.07.2018
(22) 03.10.2017
(54) METHOD AND DEVICE FOR REPROGRAMMING TPMS TIRE SENSOR DATA IN A VEHICLE CONTROL SYSTEM
(73) ATEQ
(72) BOUT, Michel
(31) 201762443943 P
(32) 09.01.2017
(33) United States of America

(51) B60C 29/00
B60R 21/274
B60R 21/01
(11) EP3566888
(21) EP19173038.1
(47) 26.01.2022
(22) 07.05.2019
(54) VALVE ASSEMBLY FOR OPENING AN AIRBAG GAS GENERATOR
(73) Dainese S.p.A.
(72) FORESTAN, Marco
MANUZZI, Marco
(31) 201800005173
(32) 08.05.2018
(33) Italy

(51) B60D 1/62
B60D 1/24
B62D 13/06
B60R 1/00
(11) EP3619060
(21) EP18723774.8
(47) 26.01.2022
(87) EP2018061321
08.11.2018
(22) 03.05.2018
(54) METHOD FOR DETERMINING THE ARTICULATION ANGLE OF A COMBINATION
(73) Volkswagen Aktiengesellschaft
(72) JÄHNISCH, Marco
BERGER, Oliver
ERFURTH, Christoph
(31) 102017207438
(32) 03.05.2017
(33) Germany

(51) B60G 7/00
B62D 7/16
B62D 7/18
B60B 35/00
F16C 11/06
(11) EP3781418
(21) EP19716817.2
(47) 26.01.2022
(87) EP2019057875
24.10.2019
(22) 28.03.2019
(54) WHEEL SUPPORT FOR A MOTOR VEHICLE
(73) Audi AG
(72) BOSCH, Jakob
(31) 102018205996
(32) 19.04.2018
(33) Germany

(51) B60G 7/00
B62D 35/02
(11) EP3672818
(21) EP18749757.3
(47) 26.01.2022
(87) EP2018070448
28.02.2019
(22) 27.07.2018
(54) COVERING PART FOR A CHASSIS ELEMENT OF A MOTOR VEHICLE
(73) Audi AG
(72) BÖSL, Bastian
(31) 102017214492
(32) 21.08.2017
(33) Germany

(51) B60G 17/08
B60G 99/00
B62D 33/06
(11) EP3339067
(21) EP17210324.4
(47) 26.01.2022
(22) 22.12.2017
(54) COMMERCIAL VEHICLE WITH A CAB AND A CAB SUSPENSION
(73) Link MFG., Ltd.
(72) DAVIS, Tye B.
OTT, William E.
(31) 201662438906 P
(32) 23.12.2016
(33) United States of America

(51) B60H 1/00
B60H 1/24
B60R 13/02
(11) EP3656589
(21) EP18207364.3
(47) 26.01.2022
(22) 20.11.2018
(54) COVERING COMPONENT AND AN AIR CONDITIONING SYSTEM FOR COVERING AND CONTROLLING THE TEMPERATURE OF AN INTERIOR OF A PASSENGER TRANSPORT VEHICLE, IN PARTICULAR OF A MOTOR VEHICLE
(73) Motherson Innovations Company Limited
(72) Nogaret, Eric

(51) B60H 1/00
H01M 10/625
H01M 10/613
H01M 10/663
B60L 50/50
(11) EP3655269
(21) EP18734757.0
(47) 26.01.2022
(87) EP2018065446
24.01.2019
(22) 12.06.2018
(54) SYSTEM FOR CONTROLLING THE TEMPERATURE OF AN ENERGY STORE
(73) Mahle International GmbH
(72) MUCKLE, Stefan
SEHGAL, Deepak
ZIMMERMANN, Raphael
SCHAUER, Markus
HIPP, Christoph
(31) 102017212588
(32) 21.07.2017
(33) Germany

(51) B60H 1/32
F25B 39/02
F28D 9/00
(11) EP3689653
(21) EP20154220.6
(47) 26.01.2022
(22) 29.01.2020
(54) REACTOR FOR RECEIVING A STORAGE MATERIAL AND METHOD OF MANUFACTURING THE SAME
(73) Deutsches Zentrum für Luft- und Raumfahrt e.V.
(72) BÜRGER, Inga
DITTUS, Holger
WECKERLE, Christoph
LINDER, Marc Philipp
HEGNER, Robert
(31) 102019102271
(32) 30.01.2019
(33) Germany

(51) B60J 5/04
(11) EP3572256
(21) EP19166937.3
(47) 26.01.2022
(22) 03.04.2019
(54) DOOR BEAM
(73) Kabushiki Kaisha Kobe Seiko Sho (Kobe Steel, Ltd.)
(72) TSUYOSHI, Tsunetake
MORITA, Shinya
(31) 2018083510
(32) 24.04.2018
(33) Japan

(51) B60J 5/06
(11) EP3737575
(21) EP18833481.7
(47) 26.01.2022
(87) FR2018053255
18.07.2019
(22) 13.12.2018
(54) CENTRAL RAIL HOUSING OF A SLIDING DOOR OF A MOTOR VEHICLE
(73) PSA Automobiles SA
(72) LEFEVRE, Eric
(31) 1850176
(32) 09.01.2018
(33) France

(51) B60K 1/04
B62D 35/02
B60L 50/60
(11) EP3683080
(21) EP19219308.4
(47) 26.01.2022
(22) 23.12.2019
(54) ELECTRIC OR HYBRID SPORT CAR
(73) FERRARI S.p.A.
(72) FAVARETTO, Fabrizio
(31) 201800021199
(32) 27.12.2018
(33) Italy

(51) B60K 6/365
B60K 6/445
B60K 6/547
B60K 25/02
B60W 10/30
B60W 20/00
(11) EP3305572
(21) EP17193732.9
(47) 26.01.2022
(22) 28.09.2017
(54) DRIVE DEVICE FOR A MOTOR VEHICLE
(73) AUDI AG
(72) Störmer, Markus
Hoffmann, Thomas
(31) 102016219617
(32) 10.10.2016
(33) Germany

(51) B60K 6/387
B60K 6/48
B60K 6/547
B60K 6/365
F16H 3/66
B60W 20/10
B60K 6/38
F16H 3/44
(11) EP3720730
(21) EP18825879.2
(47) 26.01.2022
(87) EP2018083561
13.06.2019
(22) 05.12.2018
(54) TRANSMISSION FOR A MOTOR VEHICLE, DRIVE TRAIN AND METHOD FOR OPERATING A TRANSMISSION
(73) ZF Friedrichshafen AG
(72) BAYER, Oliver
RIEGER, Wolfgang
TURNER, Lara Ruth
BREHMER, Martin
BECK, Stefan
ROSEMEIER, Thomas
HENDRAWAN, Suryanto
MORAW, Jens
HORN, Matthias
REISCH, Matthias
FRITZER, Anton
NIEDERBRUCKER, Gerhard
UNSELD, Bernd
RATTAY, Martin
WARTH, Viktor
KALTENBACH, Johannes
KUBERCZYK, Raffael
WECHS, Michael
ZIEMER, Peter
(31) 102017222300
(32) 08.12.2017
(33) Germany

(51) B60K 6/40
B60K 6/387
F16D 1/076
(11) EP3784514
(21) EP19720041.3
(47) 26.01.2022
(87) DE2019100342
31.10.2019
(22) 15.04.2019
(54) HYBRID MODULE, METHOD FOR ASSEMBLING THE HYBRID MODULE AND DRIVE ARRANGEMENT
(73) Schaeffler Technologies GmbH & Co. KG
(72) HUBER, Lionel
STOBER, Benjamin
LEHMANN, Steffen
(31) 102018110016
(32) 26.04.2018
(33) Germany

(51) B60K 7/00
B60K 17/04
B60K 1/00
(11) EP3798036
(21) EP20194398.2
(47) 26.01.2022
(22) 03.09.2020
(54) IMPROVED MOTORIZED WHEEL STRUCTURE
(73) Amer S.p.A.
(72) DALLA COSTA, Mirko
BATTISTELLA, Francesco

(31) 201900017300
(32) 26.09.2019
(33) Italy

(51) B60K 15/035
B60K 15/03
(11) EP3215385
(21) EP15813126.8
(47) 26.01.2022
(87) IL2015051066
12.05.2016
(22) 04.11.2015
(54) PRESSURE RELIEF VALVE
(73) Raval A.C.S. LTD
(72) VULKAN, Omer
(31) 201462075289 P
(32) 05.11.2014
(33) United States of America

(51) B60K 15/035
B60K 15/04
(11) EP3738811
(21) EP19174649.4
(47) 26.01.2022
(22) 15.05.2019
(54) VENTING DEVICE FOR VENTING OF MOTORVEHICLE TANKS
(73) Magna Energy Storage Systems GesmbH
(72) WIEDNER, Patrick Michael
KULMER, Karl-Heinz
STEINMANN, Dominik

(51) B60K 15/035
B62D 25/06
B62D 25/10
(11) EP3800080
(21) EP19201268.0
(47) 26.01.2022
(22) 03.10.2019
(54) SOLAR HEATED CANISTER FOR FUEL VAPOUR
(73) Ningbo Geely Automobile Research & Development Co. Ltd.
(72) NILSSON, Magnus
RIGNÄS, Ronja

(51) B60K 37/06
(11) EP3456577
(21) EP18193971.1
(47) 26.01.2022
(22) 12.09.2018
(54) USER INTERFACE APPARATUS FOR VEHICLE
(73) LG Electronics Inc.
(72) LEE, Jeongjun
OH, Kyungtae
LEE, Seehyung
(31) 20180012366
20170117383
(32) 31.01.2018
13.09.2017
(33) Korea (Republic)
Korea (Republic)

(51) B60L 50/51
H02K 16/00
H02K 7/116
H02K 7/14
B60L 3/00
B60L 3/04
(11) EP3507126
(21) EP17798108.1
(47) 26.01.2022
(87) EP2017076946
03.05.2018
(22) 23.10.2017
(54) ELECTRIC MACHINE FOR DRIVING A PROPULSION DEVICE
(73) Rolls-Royce Deutschland Ltd & Co KG
(72) WOLLENBERG, Johannes
(31) 102016221304
(32) 28.10.2016
(33) Germany

(51) B60L 50/75
B60L 58/40
H02J 1/10
H02J 7/34
H02M 3/335
(11) EP3849038
(21) EP21150526.8
(47) 26.01.2022
(22) 07.01.2021
(54) POWER SUPPLY SYSTEM FOR AN ELECTRIC VEHICLE
(73) ALSTOM Transport Technologies
(72) POMES, Jean-Luc
BARLINI, Davide
(31) 2000088
(32) 07.01.2020
(33) France

(51) B60L 53/16
H01R 13/00
(11) EP3636481
(21) EP19200962.9
(47) 26.01.2022
(22) 02.10.2019
(54) DEVICE FOR AUTOMATICALLY DECOUPLING A CONNECTOR INSERTED IN A SOCKET OF AN ELECTRIC VEHICLE
(73) ALSTOM Transport Technologies
(72) CHAGNY, Christian
(31) 1859288
(32) 08.10.2018
(33) France

(51) B60L 53/30
B60L 53/65
(11) EP3609731
(21) EP18702074.8
(47) 26.01.2022
(87) EP2018050392
18.10.2018
(22) 09.01.2018
(54) METHOD FOR CONTROLLING A CHARGING PROCESS OF A VEHICLE AT A CHARGING POST USING FIRST AND SECOND AUTHORISATION VERIFICATION
(73) Ecog GmbH
(72) HEUER, Jörg
(31) 102017206369
(32) 13.04.2017
(33) Germany

(51) B60L 53/60
(11) EP3213954
(21) EP16202608.2
(47) 26.01.2022
(22) 07.12.2016
(54) CHARGING APPARATUS
(73) Nichicon Corporation
(72) NISHI, Masaya
OHKUMA, Shigeo
(31) 2016015535
(32) 29.01.2016
(33) Japan

(51) B60N 2/00
B60N 2/28
G08B 21/02
G08B 21/22
G08B 21/24
(11) EP3446917
(21) EP18186567.6
(47) 26.01.2022
(22) 31.07.2018
(54) CHILD ABANDONMENT MONITOR
(73) Baby Trend, Inc.
(72) Mattarocci, Bradley James
(31) 201715677722
(32) 15.08.2017
(33) United States of America

(51) B60N 2/02
B64D 11/06
(11) EP3725685
(21) EP19213468.2
(47) 26.01.2022
(22) 04.12.2019
(54) SHORT MULTIPLE FUNCTION ROTARY ACTUATOR LEVER
(73) AMI Industries, Inc.
(72) HOOVER, Douglas
DOUGHTY, Kyle David
(31) 201916388497
(32) 18.04.2019
(33) United States of America

(51) B60N 2/225
(11) EP3573859
(21) EP19703198.2
(47) 26.01.2022
(87) IB2019050749
24.10.2019
(22) 30.01.2019
(54) RECLINING DEVICE FOR A VEHICLE SEAT
(73) MARTUR ITALY S.R.L.
(72) ÜSTÜNBERK, Can
Spagnoli, Luigi
(31) 201800004672
(32) 18.04.2018
(33) Italy

(51) B60N 2/28
(11) EP3689671
(21) EP19154530.0
(47) 26.01.2022
(22) 30.01.2019
(54) CHILD SAFETY SEAT ASSEMBLY
(73) Axkid AB
(72) Thenander, Fritz Robert
Röstedal, David Peter Amandus
Lundgren, Daniel

(51) B60N 2/30
B60N 2/34
B60N 2/32
(11) EP3476650
(21) EP18185428.2
(47) 26.01.2022
(22) 25.07.2018

(54) SEAT FRAME OF A VEHICLE SEAT
(73) Aguti Produktentwicklung & Design GmbH
(72) Grieger, Iris
(31) 102017124846
(32) 24.10.2017
(33) Germany

(51) B60N 2/42
B60N 2/427
B60R 22/26
(11) EP3616982
(21) EP19193237.5
(47) 26.01.2022
(22) 23.08.2019
(54) VEHICLE SEAT
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
(72) SEKIZUKA, Makoto
(31) 2018158738
(32) 27.08.2018
(33) Japan

(51) B60N 2/70
B60N 2/72
B64D 11/06
A47C 7/28
(11) EP3730343
(21) EP19212786.8
(47) 26.01.2022
(22) 02.12.2019
(54) SEAT PAN DIAPHRAGM
(73) B/E Aerospace, Inc.
(72) HULSE, Matt J.
PONJICAN, Samuel
MORSE, Eric H.
(31) 201916391781
(32) 23.04.2019
(33) United States of America

(51) B60N 2/829
(11) EP3275726
(21) EP17183281.9
(47) 26.01.2022
(22) 26.07.2017
(54) FOUR-WAY ELECTRIC POWER ACTUATION HEAD RESTRAINT
(73) Windsor Machine and Stamping 2009 Ltd
(72) Little, Mark Leonard
(31) 201662367257 P
(32) 27.07.2016
(33) United States of America

(51) B60P 1/38
(11) EP3446921
(21) EP18190630.6
(47) 26.01.2022
(22) 24.08.2018
(54) VEHICLE BODY STRUCTURE WITH INTEGRATED ENDLESS CONVEYOR BELT
(73) B. Strautmann & Söhne GmbH u. Co. KG
(72) Oelgeschläger, Oliver
(31) 202017105085 U
(32) 24.08.2017
(33) Germany

(51) B60Q 1/00
B60Q 1/12
B60Q 1/28
F21V 8/00
F21S 43/19
F21S 43/14
F21S 43/241
F21S 41/265
F21S 41/663
(11) EP2799286
(21) EP14166558.8
(47) 26.01.2022
(22) 30.04.2014
(54) multifunctional rotating module for lighting and/or for signalling
(73) VALEO VISION
(72) Ruat, Olivier
(31) 1354038
(32) 02.05.2013
(33) France

(51) B60Q 1/00
F21S 41/19
F21S 41/141
F21S 41/55
(11) EP3670256
(21) EP19217344.1
(47) 26.01.2022
(22) 18.12.2019
(54) LIGHTING DEVICE FOR VEHICLES
(73) Marelli Automotive Lighting Italy S.p.A. Con Socio Unico
(72) FALESSI, Alessandro
LA FERRARA, Giuseppe
MUSCATO, Massimo
(31) 201800020119
(32) 18.12.2018
(33) Italy

(51) B60Q 1/12
B62J 6/02
(11) EP3405364
(21) EP16815851.7
(47) 26.01.2022
(87) EP2016081832
27.07.2017
(22) 20.12.2016
(54) HEADLIGHT FOR A SINGLE-TRACK MOTOR VEHICLE, AND SINGLE-TRACK MOTOR VEHICLE WITH HEADLIGHT
(73) Bayerische Motoren Werke Aktiengesellschaft
(72) RAU, Steffen
VILSMEIER, Friedrich
(31) 102016200829
(32) 21.01.2016
(33) Germany

(51) B60Q 1/52
(11) EP3592606
(21) EP18708069.2
(47) 26.01.2022
(87) EP2018054128
13.09.2018
(22) 20.02.2018
(54) MOTOR VEHICLE COMPRISING A LIGHTING MODULE FOR GENERATING A SET OF SYMBOLS
(73) Bayerische Motoren Werke Aktiengesellschaft
(72) HANAFI, Abdelmalek
SOROKIN, Lenja
(31) 102017203899
(32) 09.03.2017
(33) Germany

(51) B60Q 3/82
B60Q 3/74
(11) EP3414129
(21) EP17703106.9
(47) 26.01.2022
(87) EP2017052115
17.08.2017
(22) 01.02.2017
(54) LIGHTING MODULE OF A VEHICLE
(73) Bayerische Motoren Werke Aktiengesellschaft
(72) WILLMANN, Tom
ALTINGER, Florian
(31) 102016201882
(32) 09.02.2016
(33) Germany

(51) B60R 3/00
A01D 41/12
E02F 9/08
(11) EP3825182
(21) EP20208577.5
(47) 26.01.2022
(22) 19.11.2020
(54) ACCESS LADDER FOR A VEHICLE
(73) Manitou Italia S.r.l.
(72) IOTTI, Marco
(31) 201900022053
(32) 25.11.2019
(33) Italy

(51) B60R 7/06
(11) EP3594064
(21) EP19181927.5
(47) 26.01.2022
(22) 24.06.2019
(54) TRAY AND FLAP FOR A TRAY OF A VEHICLE
(73) Minda KTSN Plastic Solution GmbH & Co. KG
(72) Muschick, Micha
(31) 202018103920 U
(32) 09.07.2018
(33) Germany

(51) B60R 9/10
B60R 9/058
(11) EP3724034
(21) EP18815363.9
(47) 26.01.2022
(87) IT2018000140
20.06.2019
(22) 26.10.2018
(54) DEVICE FOR TRANSPORTING BICYCLES ON MOTOR VEHICLES
(73) Aurilis Group Italia S.R.L.
(72) GEMESIO, Matteo
(31) 201700143983
(32) 14.12.2017
(33) Italy

(51) B60R 13/02
B60R 21/213
(11) EP3617002
(21) EP19188966.6
(47) 26.01.2022
(22) 30.07.2019
(54) VEHICLE PILLAR STRUCTURE
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
(72) TANAKA, Ken
NISHIZAKI, Yusuke
(31) 2018158739
(32) 27.08.2018

(33) Japan

(51) B60R 13/04
B60J 10/88
(11) EP3720738
(21) EP18836377.4
(47) 26.01.2022
(87) FR2018053091
13.06.2019
(22) 03.12.2018
(54) VEHICLE DOOR FRAME TRIM
(73) NOVARES France
(72) CHENAUD, David
PERRIN, Raphaël
(31) 1761792
(32) 07.12.2017
(33) France

(51) B60R 16/02
(11) EP3592610
(21) EP18723417.4
(47) 26.01.2022
(87) EP2018060135
01.11.2018
(22) 20.04.2018
(54) RECEIVING DEVICE FOR CONDUCTION ELEMENTS IN A DUCT OF A VEHICLE
(73) Siemens Mobility GmbH
(72) REISS, Gerhard
(31) 102017207122
(32) 27.04.2017
(33) Germany

(51) B60R 16/02
F16L 3/12
(11) EP3536562
(21) EP19160615.1
(47) 26.01.2022
(22) 04.03.2019
(54) BINDER FOR VEHICLE CABLES
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
(72) ADACHI, Satoshi
(31) 2018039311
(32) 06.03.2018
(33) Japan

(51) B60R 21/215
(11) EP3687866
(21) EP19728314.6
(47) 26.01.2022
(87) EP2019000151
27.02.2020
(22) 17.05.2019
(54) COVERING ASSEMBLY OF AN AIRBAG
(73) K.L. Kaschier- und Laminier GmbH
(72) RORING, Albert
SCHULZE WEHNINCK, Rembert
(31) 102018006706
(32) 24.08.2018
(33) Germany

(51) B60R 21/231
B60R 21/233
B60R 21/2338
B60R 21/263
(11) EP3762265
(21) EP19709683.7
(47) 26.01.2022
(87) EP2019055504
12.09.2019
(22) 06.03.2019
(54) AIRBAG AND AIRBAG MODULE FOR A MOTOR VEHICLE HAVING SUCH AN AIRBAG
(73) ZF Automotive Safety Germany GmbH
(72) SAPOUNTZIS, Stefan
SCHÜTZ, Dominik
CARDOSO, Tiago
FRANCO, Bartolomeu
(31) 202018101242 U
(32) 06.03.2018
(33) Germany

(51) B60R 22/46
(11) EP3590775
(21) EP19184278.0
(47) 26.01.2022
(22) 03.07.2019
(54) BELT RETRACTOR FOR A SAFETY BELT DEVICE OF A MOTOR VEHICLE
(73) Autoliv Development AB
(72) BEGOVIC, Giuliano
WITTENBERG, Geert
KRAMBEER, Sven
MATZEN, Frank
WINHEIM, David
(31) 102018211226
(32) 06.07.2018
(33) Germany

(51) B60S 9/08
(11) EP3738842
(21) EP20174660.9
(47) 26.01.2022
(22) 14.05.2020
(54) DOUBLE-LIFTING DEVICE FOR TOWING TYPE TRAVELING VEHICLE
(73) Hangzhou Henghong Machinery Co., Ltd.
(72) WANG, Lingling
WANG, Congcong
WANG, Guozhong
SHI, Jinming
LU, Jiangqiang
YU, Laiming
TIAN, Feng
YAN, Jigang
(31) 201920698372 U
(32) 16.05.2019
(33) China

(51) B60T 1/06
A01D 69/03
F16H 7/00
B60T 1/00
(11) EP3747714
(21) EP20185634.1
(47) 26.01.2022
(22) 05.03.2019
(54) HYDRAULIC TRANSAXLE
(73) Kanzaki Kokyukoki Mfg. Co., Ltd.
(72) MATSUURA, Jun
IWAKI, Koji
YASUDA, Toshifumi
(31) 2018045978
2018039000
(32) 13.03.2018
05.03.2018
(33) Japan
Japan

(51) B60T 7/02
B60T 7/12
B60T 17/22
(11) EP2724903
(21) EP13003398.8
(47) 26.01.2022
(22) 04.07.2013
(54) Braking device for working machines and method for actuating the said braking device
(73) Liebherr-Hydraulikbagger GmbH
(72) Lang, Johannes
Meitinger, Bernhard
(31) 102012020818
(32) 23.10.2012
(33) Germany

(51) B60T 13/66
B60T 17/22
(11) EP3656620
(21) EP19210572.4
(47) 26.01.2022
(22) 21.11.2019
(54) RAILWAY VEHICLE COMPRISING AN IMPROVED BRAKING SYSTEM
(73) SpeedInnov
(72) BRISOU, Florent
(31) 1871695
(32) 22.11.2018
(33) France

(51) B60T 13/74
B60K 7/00
H02K 7/00
(11) EP3532354
(21) EP17817096.5
(47) 26.01.2022
(87) IB2017056651
03.05.2018
(22) 26.10.2017
(54) ELECTRONIC SYSTEM FOR CONTROLLING TRACTION AND BRAKING OF A VEHICLE AND RELATED METHOD
(73) BREMBO S.p.A.
(72) BUTTI, Andrea
SZEWCZYK, Beniamin
GALIZZI, Valerio
(31) 201600108159
(32) 26.10.2016
(33) Italy

(51) B60T 13/74
F16D 55/22
(11) EP3472011
(21) EP17729485.7
(47) 26.01.2022
(87) EP2017064462
28.12.2017
(22) 13.06.2017
(54) DISC BRAKE ACTUATOR FOR A VEHICLE
(73) Haldex Brake Products Aktiebolag
(72) SEVERINSSON, Lars Mattis
(31) 16175327
(32) 20.06.2016
(33) European Patent Office (EPO)

(51) B60T 17/00
(11) EP3774468
(21) EP19716636.6
(47) 26.01.2022
(87) US2019023372
03.10.2019
(22) 21.03.2019

(54) EFFLUENT PROCESSING APPARATUS AND METHOD FOR A VEHICLE AIR BRAKE CHARGING SYSTEM
(73) Bendix Commercial Vehicle Systems, LLC
(72) HOWE, Stephen
(31) 201815937129
(32) 27.03.2018
(33) United States of America

(51) B60W 10/10
B60K 6/365
B60K 6/40
B60K 6/485
B60K 6/543
B60L 15/20
B60W 10/08
B60W 20/00
F16H 3/66
F16H 3/72
F16H 61/02
B60W 20/10
B60K 6/38
E02F 9/20
B60K 6/547
B60K 6/445
B60K 6/387
B60W 10/115
(11) EP2955076
(21) EP14862340.8
(47) 26.01.2022
(87) JP2014079963
21.05.2015
(22) 12.11.2014
(54) UTILITY VEHICLE, AND CONTROL METHOD FOR SAME
(73) Komatsu Ltd.
(72) MIYAMOTO, Shunsuke
MONDEN, Hiroshi
KISHIMOTO, Yasuki
(31) 2013237341
(32) 15.11.2013
(33) Japan

(51) B60W 20/00
(11) EP2998178
(21) EP14185065.1
(47) 26.01.2022
(22) 17.09.2014
(54) Vehicle control through machine learning
(73) Volvo Car Corporation
(72) Åkerblom, Niklas
Arvidsson, Rickard

(51) B60W 30/02
(11) EP3318461
(21) EP17199811.5
(47) 26.01.2022
(22) 03.11.2017
(54) TOWING ASSISTANCE FOR A MOTOR VEHICLE
(73) AUDI AG
(72) Khlifi, Rachid
(31) 102016221694
(32) 04.11.2016
(33) Germany

(51) B60W 30/18
B60W 10/02
B60W 10/06
F02D 29/02
(11) EP3696038
(21) EP17928314.8
(47) 26.01.2022
(87) JP2017036700
18.04.2019
(22) 10.10.2017
(54) VEHICLE CONTROL METHOD AND CONTROL DEVICE
(73) Nissan Motor Co., Ltd.
(72) NAKANE, Yusuke
HIRATA, Takeshi
SAWADA, Takanobu

(51) B60W 40/068
G08G 1/16
B60W 50/00
(11) EP3696040
(21) EP17928261.1
(47) 26.01.2022
(87) JP2017036625
18.04.2019
(22) 10.10.2017
(54) VEHICLE CONTROL METHOD AND VEHICLE CONTROL DEVICE
(73) Nissan Motor Co., Ltd.
(72) OGAWA, Katsuyoshi
MORI, Atsuhiro

(51) B60W 50/00
B60W 50/08
B60W 10/06
B60W 10/10
B60W 10/22
B60W 30/18
A62C 27/00
(11) EP3512747
(21) EP17784528.6
(47) 26.01.2022
(87) AT2017060218
22.03.2018
(22) 08.09.2017
(54) OPERATING METHOD FOR AN EMERGENCY VEHICLE
(73) Rosenbauer International AG
(72) RONACHER, Alexander
ZAUNER, Stefan
KLUCSARITS, Anton
PENZ, Edmund
(31) 508122016
(32) 13.09.2016
(33) Austria

(51) B61D 19/00
B61D 23/02
(11) EP3666619
(21) EP19213768.5
(47) 26.01.2022
(22) 05.12.2019
(54) SEALING SYSTEM FOR ENTRY SYSTEMS FOR RAILWAY VEHICLES IN A PRESSURE-RESISTANT STATE WITH OFFSET-FREE ENTRY INTO THE RAILWAY VEHICLE
(73) Gebr. Bode GmbH & Co. KG
(72) Stahl, Lars
Arend, Ulrich
Thöne, Chris
(31) 202018106995 U
(32) 07.12.2018
(33) Germany

(51) B61D 19/02
E06B 5/16
(11) EP3727988
(21) EP19704573.5
(47) 26.01.2022
(87) EP2019052691
15.08.2019
(22) 05.02.2019
(54) RAIL VEHICLE DOOR
(73) Siemens Mobility GmbH
(72) KAMMERLOHER, Herbert
HENGSTENBERG, Thomas
WIMBERGER, Thomas
(31) 102018201764
(32) 06.02.2018
(33) Germany

(51) B61F 1/12
(11) EP3793879
(21) EP19734317.1
(47) 26.01.2022
(87) EP2019066222
09.01.2020
(22) 19.06.2019
(54) WHEEL SET INTERMEDIATE FRAME FOR A RAIL VEHICLE
(73) Siemens Mobility GmbH
(72) KROISS, Manuel
EBERT, Frank
MÄRKL, Hans Jürgen
(31) 102018210880
(32) 03.07.2018
(33) Germany

(51) B61L 7/06
B61L 19/06
B61L 27/00
B61L 15/00
(11) EP3541680
(21) EP17842288.7
(47) 26.01.2022
(87) EP2017083476
26.07.2018
(22) 19.12.2017
(54) METHOD AND RAILWAY COMPONENT FOR TRANSMITTING MESSAGES
(73) Siemens Mobility GmbH
(72) HARSCH, Waldemar
(31) 102017200630
(32) 17.01.2017
(33) Germany

(51) B61L 15/00
B61L 3/24
B61L 27/00
(11) EP3495230
(21) EP17206245.7
(47) 26.01.2022
(22) 08.12.2017
(54) TRAIN CONTROL NETWORK, METHOD FOR COMMUNICATION AND METHOD FOR CONTROLLING TRAIN INTEGRITY
(73) Thales Management & Services Deutschland GmbH
(72) MORNEWEG, Volker
WALLNER, Christian
SALAZAR LUQUE, Gemma-Maria

(51) B61L 15/00
G06F 3/14
B61L 25/02
G09G 3/36
(11) EP3677486

(21) EP17923928.0
(47) 26.01.2022
(87) JP2017031640
07.03.2019
(22) 01.09.2017
(54) DISPLAY DEVICE AND DISPLAY CONTROL METHOD
(73) Mitsubishi Electric Corporation
(72) NAGAMUNE, Atsuhiko
SUDO, Akitoshi

(51) B62D 1/16
B62D 5/00
B62D 5/06
(11) EP3634832
(21) EP18731981.9
(47) 26.01.2022
(87) EP2018064898
13.12.2018
(22) 06.06.2018
(54) STEERING COLUMN FOR A MOTOR VEHICLE
(73) thyssenkrupp Presta AG
thyssenkrupp AG
(72) FORTE, Sebastian
GALEHR, Robert
(31) 102017209664
(32) 08.06.2017
(33) Germany

(51) B62D 1/19
(11) EP3665063
(21) EP18753356.7
(47) 26.01.2022
(87) EP2018071273
14.02.2019
(22) 06.08.2018
(54) STEERING COLUMN FOR A MOTOR VEHICLE
(73) thyssenkrupp Presta AG
thyssenkrupp AG
(72) SCHNITZER, Hieronymus
PALTINISANU, Ciprian
ANCELIN, Matthias
(31) 102017213895
(32) 09.08.2017
(33) Germany

(51) B62D 1/19
B62D 1/189
(11) EP3601014
(21) EP18716168.2
(47) 26.01.2022
(87) EP2018057954
04.10.2018
(22) 28.03.2018
(54) STEERING COLUMN HAVING AN ENERGY ABSORPTION DEVICE
(73) thyssenkrupp Presta AG
thyssenkrupp AG
(72) DOMIG, Markus
(31) 102017107034
(32) 31.03.2017
(33) Germany

(51) B62D 6/00
(11) EP3595958
(21) EP18713576.9
(47) 26.01.2022
(87) EP2018056145
20.09.2018
(22) 13.03.2018
(54) ESTIMATING THE RACK FORCE IN A STEER-BY-WIRE SYSTEM
(73) thyssenkrupp AG
thyssenkrupp Presta AG
(72) ROHRMOSER, Manuel
(31) 102017105370
(32) 14.03.2017
(33) Germany

(51) B62D 25/04
B60J 5/04
B60R 19/18
(11) EP3339139
(21) EP16837180.5
(47) 26.01.2022
(87) JP2016074241
23.02.2017
(22) 19.08.2016
(54) STEEL SHEET MEMBER COMBINATION STRUCTURE, AUTOMOBILE STRUCTURAL MEMBER, CENTER PILLAR, BUMPER, AND DOOR BEAM
(73) Nippon Steel Corporation
(72) HAMADA, Koichi
ITO, Yasunori
ONO, Atsushi
(31) 2015163063
(32) 20.08.2015
(33) Japan

(51) B62D 25/20
B62D 35/02
(11) EP3680153
(21) EP20150152.5
(47) 26.01.2022
(22) 03.01.2020
(54) VEHICLE COVER MEMBER
(73) Toyota Jidosha Kabushiki Kaisha
(72) NAKAGAWA, Takuya
(31) 2019003227
(32) 11.01.2019
(33) Japan

(51) B62D 35/02
(11) EP3735370
(21) EP18839822.6
(47) 26.01.2022
(87) FR2018053242
11.07.2019
(22) 13.12.2018
(54) FAIRING OF A MOTOR VEHICLE CHASSIS, PROVIDED WITH A RELEASE OPENING FOR A SHACKLE FOR ATTACHING A DUCT TO A PLATFORM OF THE CHASSIS
(73) PSA Automobiles SA
(72) BERTH, Stéphane
(31) 1850034
(32) 04.01.2018
(33) France

(51) B62D 55/108
B62D 55/112
B62D 55/116
B60G 5/01
B60G 17/0165
B60G 21/067
B60G 21/045
B62D 55/065
(11) EP3541690
(21) EP17872124.7
(47) 26.01.2022
(87) SE2017051117
24.05.2018
(22) 09.11.2017
(54) A TRACKED VEHICLE COMPRISING A TILTABLE SUSPENDED TRACK ASSEMBLY
(73) Bae Systems Hägglunds Aktiebolag
(72) HELLHOLM, Björn
WÅGBERG, Jens
NORDBERG, Björn
HALLIN, Leif
BODIN, Anders
SANDIN, Anders
ENGBLOM, Daniel
THORÉN, Max
(31) 1651515
(32) 18.11.2016
(33) Sweden

(51) B62H 5/00
(11) EP3556642
(21) EP19175479.5
(47) 26.01.2022
(22) 16.07.2012
(54) PORTABLE LOCK MOUNTING ASSEMBLIES
(73) Schlage Lock Company LLC
(72) KINDSTRAND, Daniel, Hugh
WARREN, Donald, H.
FIEGENER, John, D.
MILLER, David, Bruce
ZURASKI, Robert, David
(31) 201161508216 P
(32) 15.07.2011
(33) United States of America

(51) B62J 1/00
(11) EP3022110
(21) EP14739397.9
(47) 26.01.2022
(87) EP2014064874
22.01.2015
(22) 10.07.2014
(54) BICYCLE SADDLE
(73) Selle SMP SAS Di Maurizio Schiavon
(72) SCHIAVON, Franco
SCHIAVON, Maurizio
(31) VI20130182
(32) 18.07.2013
(33) Italy

(51) B62J 11/00
B62J 45/20
B62J 50/20
B62K 21/12
(11) EP3753825
(21) EP20178916.1
(47) 26.01.2022
(22) 09.06.2020
(54) DEVICE FOR CONNECTING IN A TORQUE-RESISTANT MANNER A HANDLEBAR WITH A HANDLEBAR STEM
(73) ZEG Zweirad-Einkaufs-Genossenschaft eG
(72) Honkomp, Georg
(31) 202019103437 U
(32) 19.06.2019
(33) Germany

(51) B62J 17/10

B62J 41/00
(11) EP3133007
(21) EP15780445.1
(47) 26.01.2022
(87) JP2015053054
22.10.2015
(22) 04.02.2015
(54) RADIATOR FOR SADDLED VEHICLE
(73) Kawasaki Jukogyo Kabushiki Kaisha
(72) ARINO, Naoki
JYOUZAKI, Takahiro
MUROI, Masataka
ITOH, Masafumi
HARAGUCHI, Takayuki
(31) 2014083378
(32) 15.04.2014
(33) Japan

(51) B62K 5/10
F16D 55/28
B62K 5/05
B62K 5/027
B62K 5/08
F16H 1/20
F16H 21/44
B62L 1/00
(11) EP3360764
(21) EP16864385.6
(47) 26.01.2022
(87) JP2016083613
18.05.2017
(22) 11.11.2016
(54) LEANING VEHICLE
(73) Yamaha Hatsudoki Kabushiki Kaisha
(72) TOYOTA, Takeshi
FUKUHARA, Yukihide
KANEHARA, Shuhei
HARA, Nobuo
(31) 2015223253
(32) 13.11.2015
(33) Japan

(51) B62M 3/08
B62M 3/16
(11) EP3786050
(21) EP19194379.4
(47) 26.01.2022
(22) 29.08.2019
(54) BICYCLE PEDAL ADAPTER AND PEDAL WITH ADAPTER
(73) Van Der Heide, Marten Peter
(72) Van Der Heide, Marten Peter

(51) B63B 27/14
(11) EP3771631
(21) EP20183084.1
(47) 26.01.2022
(22) 30.06.2020
(54) A RETRACTABLE TELESCOPIC GANGWAY FOR A FLOATING NAVIGATION UNIT
(73) B. FINANCIAL S.r.l.
(72) BESENZONI, Giorgio
(31) 201900013692
(32) 01.08.2019
(33) Italy

(51) B63B 27/34
B63B 27/24
B67D 9/02
B63B 13/00
F16L 55/00
F16J 15/02
F16L 27/08
(11) EP3569486
(21) EP17891680.5
(47) 26.01.2022
(87) KR2017008431
19.07.2018
(22) 04.08.2017
(54) FLOATING TYPE STRUCTURE
(73) Samsung Heavy Industries Co., Ltd.
(72) LEE, In Ho
LEE, Dong Yeon
KIM, Sang Whee
KIM, Boo Ki
SI, Dae Youb
CHO, Ki Soo
KIM, Joo Sung
(31) 20170006912
20170006911
(32) 16.01.2017
16.01.2017
(33) Korea (Republic)
Korea (Republic)

(51) B63B 43/18
B63H 25/42
B63H 25/46
G05D 1/02
B63B 79/40
(11) EP3670320
(21) EP19217244.3
(47) 26.01.2022
(22) 17.12.2019
(54) MARINE PROPULSION CONTROL SYSTEM AND METHOD WITH COLLISION AVOIDANCE OVERRIDE
(73) Brunswick Corporation
(72) Derginer, Matthew E.
Malouf, Travis C.
Ward, Aaron J.
(31) 201916694581
201862783408 P
(32) 25.11.2019
21.12.2018
(33) United States of America
United States of America

(51) B63C 11/08
(11) EP3825225
(21) EP20206435.8
(47) 26.01.2022
(22) 09.11.2020
(54) BUOYANCY CONTROL JACKET FOR SCUBA DIVING
(73) Cressi-Sub S.p.A.
(72) MICILLO, Pietro
GODOY, Carlos Alberto
(31) 201900021744
(32) 20.11.2019
(33) Italy

(51) B63G 8/00
B63B 22/18
(11) EP3728018
(21) EP18830944.7
(47) 26.01.2022
(87) IB2018059775
27.06.2019
(22) 07.12.2018
(54) SYSTEM AND METHOD FOR POWER AND DATA TRANSMISSION IN A BODY OF WATER TO UNMANNED UNDERWATER VEHICLES
(73) SAIPEM S.P.A.
(72) SERENA, Alberto
LAZZARIN, Diego
MASSARI, Giovanni
(31) 201700145949
(32) 18.12.2017
(33) Italy

(51) B63H 9/06
D03D 11/02
B63H 9/04
D03D 13/00
D03D 1/00
D03D 25/00
(11) EP3512990
(21) EP17850369.4
(47) 26.01.2022
(87) IB2017055373
22.03.2018
(22) 06.09.2017
(54) IMPROVED WOVEN SAILCLOTH
(73) Conzeptor Aps
(72) APPLEYARD, Colin
(31) 16188619
(32) 13.09.2016
(33) European Patent Office (EPO)

(51) B64C 1/16
B64D 27/20
B64C 21/08
B64C 1/00
B64D 27/14
(11) EP3500485
(21) EP17764713.8
(47) 26.01.2022
(87) US2017048531
29.03.2018
(22) 25.08.2017
(54) AIRCRAFT HAVING AN AFT ENGINE
(73) General Electric Company
(72) YAO, Jixian
MALCEVIC, Ivan, K.
RAMAKRISHNAN, Kishore
PASTOUCHENKO, Nikolai, N.
(31) 201615271776
(32) 21.09.2016
(33) United States of America

(51) B64C 1/26
B64C 5/02
B64C 1/00
(11) EP3604120
(21) EP18382583.5
(47) 26.01.2022
(22) 01.08.2018
(54) FITTING FOR ATTACHING THE HORIZONTAL TAIL STABILIZER OF AN AIRCRAFT
(73) Airbus Operations, S.L.U.
(72) JURADO MEDINA, Manuel

(51) B64C 5/02
B64C 5/06
B64C 27/82
B64C 3/16
(11) EP3842337
(21) EP19219521.2
(47) 26.01.2022
(22) 23.12.2019

(54) HELICOPTER, HELICOPTER KIT AND ASSOCIATED RECONFIGURATION METHOD
(73) LEONARDO S.p.A.
(72) MEDICI, Luca
MELONE, Stefano

(51) B64C 11/30
G01D 5/247
(11) EP3284665
(21) EP17186710.4
(47) 26.01.2022
(22) 17.08.2017
(54) SYSTEM AND METHOD FOR ELECTRONIC PROPELLER BLADE ANGLE POSITION FEEDBACK WITH ANGLED PAIRS OF TEETH
(73) Pratt & Whitney Canada Corp.
(72) IACOBACCI, Mark
JARVO, James Robert
MARONE, Joseph Ernesto
YAKABOV, Ella
(31) 201615239779
(32) 17.08.2016
(33) United States of America

(51) B64C 13/50
G05D 1/00
H04L 12/40
B64C 29/02
B64C 39/02
B64C 39/04
(11) EP3658457
(21) EP18759778.6
(47) 26.01.2022
(87) US2018044001
31.01.2019
(22) 27.07.2018
(54) ASYMMETRIC CAN-BASED COMMUNICATION FOR AERIAL VEHICLES
(73) Wing Aviation LLC
(72) VIELE, Brian
DORMIANI, Parsa
(31) 201715661974
(32) 27.07.2017
(33) United States of America

(51) B64C 21/10
F15D 1/12
B29C 65/48
(11) EP2650214
(21) EP13176022.5
(47) 26.01.2022
(22) 25.08.2010
(54) Combination of an aerodynamic surface and an array of riblets
(73) The Boeing Company
(72) McLean, James D.
Rawlings, Diane C.
Mathews, Mary J.
(31) 566907
(32) 25.09.2009
(33) United States of America

(51) B64C 25/60
F16F 9/06
B64F 5/40
(11) EP3498603
(21) EP17207026.0
(47) 26.01.2022
(22) 13.12.2017
(54) METHOD OF SERVICING AN AIRCRAFT LANDING GEAR SHOCK ABSORBING STRUT
(73) Safran Landing Systems UK Limited
(72) Brown, Adam
Smith, Jon

(51) B64C 25/60
F16F 9/06
F16F 9/32
(11) EP3670337
(21) EP18213498.1
(47) 26.01.2022
(22) 18.12.2018
(54) AIRCRAFT LANDING GEAR SHOCK ABSORBER ASSEMBLY
(73) Safran Landing Systems UK Limited
(72) MANSFIELD, Ricky Peter

(51) B64C 27/00
B64D 31/06
F01D 21/02
B64C 27/04
(11) EP3705398
(21) EP20161323.9
(47) 26.01.2022
(22) 05.03.2020
(54) METHOD AND SYSTEM FOR OPERATING AN ENGINE IN A MULTI-ENGINE AIRCRAFT
(73) Pratt & Whitney Canada Corp.
(72) MANOUKIAN, Patrick
BEAUCHESNE-MARTEL, Philippe
MOUNIR FATY, Zachary
LISIO, Carmine
McCARTHY, Sean
(31) 201916292684
(32) 05.03.2019
(33) United States of America

(51) B64C 27/00
B64D 43/00
(11) EP2860106
(21) EP14188207.6
(47) 26.01.2022
(22) 08.10.2014
(54) Systems and methods for track and balance visualization
(73) Simmonds Precision Products, Inc.
(72) Hiatt, Daniel
(31) 201414168445
201361888748 P
(32) 30.01.2014
09.10.2013
(33) United States of America
United States of America

(51) B64C 27/08
(11) EP3659912
(21) EP18382880.5
(47) 26.01.2022
(22) 30.11.2018
(54) AERIAL VEHICLES WITH UNCOUPLED DEGREES OF FREEDOM
(73) UMILES Urban Air Mobility, S.L
(72) Lasa Aguirrebengoa, Joseba
Iglesias Aguinaga, Iñaki

(51) B64C 27/12
B64C 27/32
(11) EP3613670
(21) EP19187162.3
(47) 26.01.2022
(22) 19.07.2019
(54) POWER TRANSMISSION DEVICE FOR A HELICOPTER
(73) ZF Friedrichshafen AG
(72) Rösener, Timm
Kühne, Martin
Lieder, Sergej
(31) 102018213092
(32) 06.08.2018
(33) Germany

(51) B64C 27/14
B64C 27/00
B64D 35/00
B64D 35/04
B64D 35/08
B64C 27/22
(11) EP3842341
(21) EP19219920.6
(47) 26.01.2022
(22) 27.12.2019
(54) HOVER-CAPABLE AIRCRAFT AND LUBRICATION METHOD FOR A MODULE OF A TRANSMISSION UNIT OF SAID AIRCRAFT
(73) LEONARDO S.p.A.
(72) MONTAGNA, Federico
PISANI, Paolo
REGONINI, Roberto
PODDA, Daniele

(51) B64C 27/605
A63H 27/127
A63H 27/133
B64C 27/00
B64C 27/58
B64C 27/59
B64C 13/50
B64C 39/02
(11) EP3341289
(21) EP16840151.1
(47) 26.01.2022
(87) US2016048765
02.03.2017
(22) 25.08.2016
(54) GANGED SERVO FLIGHT CONTROL SYSTEM FOR AN UNMANNED AERIAL VEHICLE
(73) AeroVironment, Inc.
(72) HOLLY, Lance
DONOVAN, William
(31) 201514835243
(32) 25.08.2015
(33) United States of America

(51) B64C 39/02
(11) EP3717351
(21) EP18816432.1
(47) 26.01.2022
(87) US2018062453
31.05.2019
(22) 26.11.2018
(54) WING STRUCTURE AND ATTACHMENT TO FRAME FOR UNMANNED AERIAL VEHICLES
(73) Wing Aviation LLC
(72) WOODWORTH, Adam
BENSON, Stephen
RUDIN, Adem
(31) 201715823129

(32) 27.11.2017
(33) United States of America

(51) B64D 1/22
B64C 39/00
(11) EP3717353
(21) EP19712636.0
(47) 26.01.2022
(87) US2019018203
22.08.2019
(22) 15.02.2019
(54) SYSTEM FOR MID-AIR PAYLOAD RETRIEVAL BY A UAV
(73) Wing Aviation LLC
(72) PRAGER, Andre
(31) 201815899214
(32) 19.02.2018
(33) United States of America

(51) B64D 11/06
(11) EP2767471
(21) EP13006064.3
(47) 26.01.2022
(22) 19.02.2013
(54) Supporting portion for a lightweight aircraft passenger seat assembly
(73) MIRUS Aircraft Seating Ltd.
(72) Passari, Rocco
Bell, Duncan
Hall, Phil

(51) B64D 11/06
(11) EP3194206
(21) EP15771415.5
(47) 26.01.2022
(87) US2015050567
24.03.2016
(22) 17.09.2015
(54) ADJUSTABLE LIE-FLAT SEAT
(73) Safran Seats USA LLC
(72) LUEVANO GONZALEZ, Patricia
RUIZ LARA, Oscar
(31) 201462052077 P
(32) 18.09.2014
(33) United States of America

(51) B64D 15/04
F02C 7/047
B64D 33/02
F16L 27/11
(11) EP3705403
(21) EP19216541.3
(47) 26.01.2022
(22) 16.12.2019
(54) INLET ANTI-ICE DOUBLE WALLED DUCT WITH SUPPLY LINE SEAL
(73) Rohr, Inc.
(72) GRAILY, Bahram B.
KROEGER, Daniel
(31) 201916292704
(32) 05.03.2019
(33) United States of America

(51) B64D 15/12
(11) EP3609786
(21) EP18717060.0
(47) 26.01.2022
(87) EP2018059469
18.10.2018
(22) 12.04.2018
(54) ELECTROTHERMAL HEATER
(73) GKN Aerospace Services Limited
(72) ENGLISH, Peter
(31) 201705997
(32) 13.04.2017
(33) United Kingdom

(51) B64D 15/12
B64C 27/06
H01F 38/18
H05B 1/02
H05B 6/08
(11) EP3845458
(21) EP19219995.8
(47) 26.01.2022
(22) 30.12.2019
(54) ROTOR FOR A HOVER-CAPABLE AIRCRAFT
(73) Politecnico di Milano
LEONARDO S.p.A.
(72) MAURI, Marco
CHATTERTON, Steven
TOSCANI, Nicola
BRUNETTI, Massimo
OSTUNI, Nicola
CASTELLI DEZZA, Francesco
BELLUSSI, Enrico
FACCHINI, Giovanni

(51) B64D 15/12
B64D 15/16
(11) EP3342711
(21) EP17208462.6
(47) 26.01.2022
(22) 19.12.2017
(54) COMBINED ELECTRO-THERMAL AND PNEUMATIC BOOT DEICING SYSTEM
(73) Goodrich Corporation
(72) WILSON, Tommy M.
BOTURA, Galdemir Cezar
CHAUDHRY, Zaffir A.
ZHAO, Wenping
HARTZLER, Brad
(31) 201615394197
(32) 29.12.2016
(33) United States of America

(51) B64D 15/16
(11) EP3498608
(21) EP18212240.8
(47) 26.01.2022
(22) 13.12.2018
(54) SEWN ALTERNATE INFLATE PNEUMATIC DE-ICER
(73) Goodrich Corporation
(72) TAUSCHER, Kurt M.
FAHRNER, Alan J.
BOTURA, Galdemir Cezar
HUNTER, James R.
SCHOMER, Samual Steven Riczo
(31) 201715845428
(32) 18.12.2017
(33) United States of America

(51) B64D 17/80
B64D 17/34
B64D 17/54
(11) EP3532388
(21) EP17863977.9
(47) 26.01.2022
(87) US2017057252
03.05.2018
(22) 18.10.2017
(54) BIMODAL PARACHUTE DEPLOYMENT SYSTEM
(73) Kitty Hawk Corporation
(72) ROBERTSON, Cameron
VANDER LIND, Damon
(31) 201615338086
(32) 28.10.2016
(33) United States of America

(51) B64F 1/20
F21V 7/00
F21V 7/05
F21V 7/06
F21W 111/06
F21Y 105/10
F21Y 115/10
F21Y 113/10
(11) EP3356232
(21) EP16781140.5
(47) 26.01.2022
(87) FI2016050664
06.04.2017
(22) 23.09.2016
(54) PRECISION APPROACH PATH INDICATOR WITH A NOVEL REFLECTOR ARRANGEMENT
(73) Obelux Oy
(72) LAAKSO, Vesa
(31) 20155689
(32) 29.09.2015
(33) Finland

(51) B64F 5/00
B64F 5/10
G05B 19/4093
B64C 3/18
B23P 21/00
G01B 11/00
G05B 1/00
G05B 7/00
G05B 19/00
G05B 21/00
B64C 3/26
B64C 1/06
B64C 1/26
B23P 19/10
G01B 11/02
(11) EP3636553
(21) EP19201538.6
(47) 26.01.2022
(22) 04.10.2019
(54) METHODS OF SYNCHRONIZING MANUFACTURING OF A SHIMLESS ASSEMBLY
(73) The Boeing Company
(72) Borowicz, Clifford
(31) 201816152243
(32) 04.10.2018
(33) United States of America

(51) B64F 5/50
(11) EP3645399
(21) EP18748997.6
(47) 26.01.2022
(87) FR2018051540
03.01.2019
(22) 25.06.2018
(54) MAINTENANCE ASSEMBLY FOR AN AIRCRAFT TURBINE ENGINE
(73) Safran Nacelles
(72) CHANTAL, Patrice

DRIEU, Thierry
(31) 1756067
(32) 29.06.2017
(33) France

(51) B64G 1/00
B64G 1/64
B64G 1/22
B64G 1/40
(11) EP3653516
(21) EP18206476.6
(47) 26.01.2022
(22) 15.11.2018
(54) MULTI-STAGE ROCKET WITH A RECOVERABLE ROCKET STAGE AND METHOD FOR LAUNCHING A MULTI-STAGE ROCKET AND RETURNING A RECOVERABLE ROCKET STAGE TO EARTH
(73) Orbital Express Launch Limited
(72) Bjarnoe, Jonas Baekby

(51) B64G 1/10
B64G 1/22
B64G 1/44
B64G 1/50
B64G 1/64
B64G 1/66
(11) EP3569508
(21) EP19176307.7
(47) 26.01.2022
(22) 17.05.2017
(54) STACKABLE PANCAKE SATELLITE
(73) The Boeing Company
(72) BUSCHE, Gregory Clayton
(31) 201615366698
201662347751 P
(32) 01.12.2016
09.06.2016
(33) United States of America
United States of America

(51) B65B 3/00
B65B 7/28
(11) EP3725688
(21) EP20177968.3
(47) 26.01.2022
(22) 04.12.2015
(54) PREPARING A DOUBLE CHAMBER CONTAINER
(73) F. Hoffmann-La Roche AG
(72) LÜMKEMANN, Jörg
WERK, Tobias
MAHLER, Hanns-Christian
(31) 14196466
(32) 05.12.2014
(33) European Patent Office (EPO)

(51) B65B 5/04
B65B 5/06
B65B 43/39
(11) EP3581501
(21) EP19179402.3
(47) 26.01.2022
(22) 11.06.2019
(54) BOX PACKING APPARATUS
(73) ISHIDA CO., Ltd.
(72) YOKOTA, Yuji
(31) 2018111139
(32) 11.06.2018
(33) Japan

(51) B65B 11/00
B65B 9/06
B65B 41/14
B65B 49/16
B65B 49/14
B65B 51/14
B65B 11/58
B65B 11/08
B65B 61/10
(11) EP3787976
(21) EP19720570.1
(47) 26.01.2022
(87) EP2019060891
07.11.2019
(22) 29.04.2019
(54) FILM-WRAPPING APPARATUS
(73) Springer Maschinenfabrik GmbH
(72) FRISCH, Clemens
(31) 503692018
(32) 02.05.2018
(33) Austria

(51) B65B 25/04
B65B 39/00
B65B 39/02
B65B 39/12
B65B 9/093
B65B 35/54
(11) EP3494050
(21) EP17772757.5
(47) 26.01.2022
(87) IB2017054716
08.02.2018
(22) 02.08.2017
(54) ENHANCED APPARATUS FOR FILLING BAGS
(73) Saclark S.r.l.
(72) SALA, Gianmario
(31) 201600081813
(32) 03.08.2016
(33) Italy

(51) B65B 37/04
B65G 65/44
B65G 47/14
B65G 47/19
B65G 47/72
B08B 9/032
B65B 39/00
B08B 9/093
B08B 9/00
(11) EP3585689
(21) EP17709346.5
(47) 26.01.2022
(87) DK2017050051
30.08.2018
(22) 24.02.2017
(54) CIRCULAR DISTRIBUTION APPARATUS
(73) GEA Scan-Vibro A/S
(72) VADSTRUP, Poul

(51) B65D 1/02
B65D 41/34
(11) EP3515829
(21) EP16788797.5
(47) 26.01.2022
(87) IB2016001555
29.03.2018
(22) 23.09.2016
(54) DOUBLE TAMPER EVIDENCE CAP FOR A NECK OF A CONTAINER, SYSTEM INCLUDING SAID CAP AND A CONTAINER AND METHOD FOR MANUFACTURING SAID CAP
(73) Société Anonyme des Eaux Minérales d'Evian et en Abrégé "S.A.E.M.E"
(72) SAVAJANO, Romain
ROUSSY, Michel
NUSBAUM, Philippe
GALLAY, Renaud

(51) B65D 1/30
B65D 75/32
B65D 75/52
B26D 3/08
B26D 3/06
B26F 1/44
(11) EP3722217
(21) EP19000268.3
(47) 26.01.2022
(22) 29.05.2019
(54) MULTI-PACK CONTAINER AND MACHINE FOR MANUFACTURING THE SAME
(73) Industrias Tecnológicas de Mecanización y Automatizaciòn, S.A.
(72) González, Manuel
(31) 201930324
(32) 10.04.2019
(33) Spain

(51) B65D 41/34
B65D 55/16
B65D 41/32
B65D 81/26
(11) EP3584189
(21) EP19179634.1
(47) 26.01.2022
(22) 12.06.2019
(54) TETHERED BRIDGE CLOSURE
(73) Closure Systems International Inc.
(72) LUTTON, Leland T.
EDIE, John
(31) 201862683905 P
(32) 12.06.2018
(33) United States of America

(51) B65D 71/16
B65D 71/36
(11) EP3645414
(21) EP18742688.7
(47) 26.01.2022
(87) US2018039706
03.01.2019
(22) 27.06.2018
(54) CARTON AND BLANK THEREFOR
(73) WestRock Packaging Systems, LLC
(72) PEELER, Andrew T.
GAIDAEVA, Ekaterina V.
ZACHERLE, Matthew E.
BLIN, Patrick
(31) 201762527601 P
(32) 30.06.2017
(33) United States of America

(51) B65D 79/00
B65D 51/16
(11) EP3551547
(21) EP17829271.0
(47) 26.01.2022
(87) GB2017000175

14.06.2018
(22) 06.12.2017
(54) RECEPTACLE CLOSURE
(73) LIQUID NATION S.R.L.
(72) RICHARDSON, Joanne
ZANATTA, Omar
(31) 201620843
(32) 07.12.2016
(33) United Kingdom

(51) B65D 79/02
B65D 51/24
H01M 6/04
H01M 6/40
H01M 50/10
H01M 50/20
B65D 23/00
B65D 25/00
H01M 50/209
(11) EP3622571
(21) EP18721810.2
(47) 26.01.2022
(87) EP2018061792
15.11.2018
(22) 08.05.2018
(54) SMART PACKAGING FOR ANY TYPE OF PRODUCT
(73) Anheuser-Busch InBev S.A.
(72) THOMPSON, Keenan
HENDERSON, Charles
(31) 201705346
(32) 10.05.2017
(33) Belgium

(51) B65D 81/24
C08B 15/02
C08B 15/10
D21H 11/18
B32B 9/02
B32B 27/10
B65D 65/40
C08B 15/08
C08J 5/18
D21C 9/00
(11) EP3041758
(21) EP14842144.9
(47) 26.01.2022
(87) SE2014051023
12.03.2015
(22) 05.09.2014
(54) OXYGEN AND WATER VAPOUR BARRIER FILMS WITH LOW MOISTURE SENSITIVITY FABRICATED FROM SELF-CROSS-LINKING FIBRILLATED CELLULOSE
(73) BillerudKorsnäs AB
(72) LARSSON, Per
WÅGBERG, Lars
(31) 1300586
(32) 06.09.2013
(33) Sweden

(51) B65D 81/32
A61C 5/64
A61C 5/66
(11) EP3592662
(21) EP18731361.4
(47) 26.01.2022
(87) EP2018063945
06.12.2018
(22) 28.05.2018
(54) TWO-COMPONENT MIXING CAPSULE, IN PARTICULAR FOR DENTAL PURPOSES
(73) Kulzer GmbH
(72) SUFFEL, Ralf
BALKENHOL, Markus
KEMENY, Andrea
KONDZIELA, Mike
ECK, Michael
UTTERODT, Andreas
KOCOGLU, Raif
(31) 102017111725
(32) 30.05.2017
(33) Germany

(51) B65D 83/00
A47K 5/12
B05B 11/00
(11) EP3755643
(21) EP19705579.1
(47) 26.01.2022
(87) IB2019050910
29.08.2019
(22) 05.02.2019
(54) DISPENSING DEVICE FOR PASTE PRODUCTS, FOR EXAMPLE TOOTHPASTE
(73) Guala Dispensing S.p.A.
(72) ALLUIGI, Riccardo
(31) 201800002991
(32) 23.02.2018
(33) Italy

(51) B65D 88/68
B65D 90/58
B65G 47/19
B65G 65/46
B65G 69/08
(11) EP3733558
(21) EP20172193.3
(47) 26.01.2022
(22) 29.04.2020
(54) DOSING UNIT FOR AUTOMATIC WEIGHING SYSTEMS
(73) Color Service S.r.l.
(72) TURLE, Antonello
(31) 201900006531
(32) 03.05.2019
(33) Italy

(51) B65F 1/00
B65F 1/16
(11) EP3486197
(21) EP18203816.6
(47) 26.01.2022
(22) 31.10.2018
(54) LID DEVICE FOR A REFUSE RECEPTACLE
(73) ESE World B.V.
(72) Schuh, Daniel
(31) 102017126821
(32) 15.11.2017
(33) Germany

(51) B65F 3/20
B30B 9/30
B65F 3/28
(11) EP3564163
(21) EP19164513.4
(47) 26.01.2022
(22) 22.03.2019
(54) AIRPLANE-DERIVED REFUSE COMPACTING SYSTEM AND METHOD
(73) Alon Group Ltd
(72) ALON, Zohar
JETTEN, Jan
(31) 25910618
(32) 02.05.2018
(33) Israel

(51) B65F 5/00
(11) EP2544969
(21) EP11711953.7
(47) 26.01.2022
(87) FI2011050182
15.09.2011
(22) 03.03.2011
(54) METHOD OF USE OF A PNEUMATIC MATERIAL CONVEYING SYSTEM AND PNEUMATIC MATERIAL CONVEYING SYSTEM
(73) Maricap OY
(72) SUNDHOLM, Göran
(31) 20105249
(32) 12.03.2010
(33) Finland

(51) B65G 1/04
(11) EP3681824
(21) EP19725846.0
(47) 26.01.2022
(87) AT2019060161
21.11.2019
(22) 15.05.2019
(54) AUTOMATED STORAGE SYSTEM HAVING GUIDED TRANSFER MEANS
(73) Knapp AG
(72) WEND, Michael
(31) 504062018
(32) 15.05.2018
(33) Austria

(51) B65G 1/06
(11) EP3492407
(21) EP18208551.4
(47) 26.01.2022
(22) 27.11.2018
(54) CONVEYANCE SYSTEM AND METHOD FOR CONVEYING WORKPIECE
(73) Hirata Corporation
(72) MURAYAMA, Masashi
(31) 2017229559
(32) 29.11.2017
(33) Japan

(51) B65G 47/08
(11) EP3445688
(21) EP17708999.2
(47) 26.01.2022
(87) EP2017053853
26.10.2017
(22) 21.02.2017
(54) METHOD AND DEVICE FOR HANDLING PIECE GOODS MOVED IN AT LEAST ONE ROW ONE BEHIND THE OTHER
(73) Krones Aktiengesellschaft
(72) KOLLMUSS, Manuel
BEER, Erhard
ASTNER, Michael
MEHDI, Arsalan
(31) 102016206664
(32) 20.04.2016

(33) Germany

(51) B65G 47/08
B65G 47/244
(11) EP3694795
(21) EP18783420.5
(47) 26.01.2022
(87) EP2018076875
18.04.2019
(22) 02.10.2018
(54) DEVICE AND METHOD FOR HANDLING PIECE GOODS ITEMS MOVED IN AT LEAST THREE ROWS
(73) KRONES Aktiengesellschaft
(72) WESTERMEIER, Christian
EHBERGER, Marco
SCHWALB, Felix
BEER, Erhard
GRIMM, Sebastian
KOLLMUSS, Manuel
ASTNER, Michael
MEHDI, Arsalan
KIRZINGER, Johannes
(31) 102017123563
(32) 10.10.2017
(33) Germany

(51) B65G 47/86
B65B 35/16
B65B 35/26
B65C 3/26
B65C 7/00
(11) EP3737626
(21) EP19700114.2
(47) 26.01.2022
(87) EP2019050294
18.07.2019
(22) 08.01.2019
(54) STAR CONVEYOR FOR CONTAINERS
(73) P.E. Labellers S.p.A.
(72) SCHINELLI, Nicola
NEGRI, Bruno
(31) 201800000708
(32) 11.01.2018
(33) Italy

(51) B65G 54/02
B65G 35/06
(11) EP3233676
(21) EP15813412.2
(47) 26.01.2022
(87) EP2015080294
30.06.2016
(22) 17.12.2015
(54) MOVING DEVICE HAVING AN OPERATING CONFIGURATION AND A MAINTENANCE CONFIGURATION
(73) Weber Maschinenbau GmbH Breidenbach
(72) ZECHER, Steffen
VON KEUDELL, Leopold
ROTHER, Ingo
GERLACH, Jochen
BURK, Alexander
NISPEL, Thomas
NICHAU, Marco
ECKHARDT, Christoph
(31) 102014119352
(32) 22.12.2014
(33) Germany

(51) B65H 3/08
B25J 15/06
B65H 9/10
(11) EP3665107
(21) EP18765741.6
(47) 26.01.2022
(87) IB2018056047
14.02.2019
(22) 10.08.2018
(54) VACUUM LIFTER
(73) Kongsberg Precision Cutting Systems Belgium BV
(72) WADE, Colin Maxwell
(31) 201712838
(32) 10.08.2017
(33) United Kingdom

(51) B65H 3/08
B65G 47/91
B65G 61/00
(11) EP3665110
(21) EP18773611.1
(47) 26.01.2022
(87) IB2018056053
14.02.2019
(22) 10.08.2018
(54) VACUUM LIFTER
(73) Kongsberg Precision Cutting Systems Belgium BV
(72) WADE, Colin Maxwel
(31) 201804299
201712831
(32) 16.03.2018
10.08.2017
(33) United Kingdom
United Kingdom

(51) B65H 15/00
B65H 5/10
B65H 5/38
(11) EP3763648
(21) EP20184268.9
(47) 26.01.2022
(22) 06.07.2020
(54) DEVICE AND METHOD FOR TURNING OVER COATING SHEETS
(73) Wemhöner Surface Technologies GmbH & Co. KG
(72) Barth, Florian
(31) 102019128975
102019118331
(32) 28.10.2019
06.07.2019
(33) Germany
Germany

(51) B65H 23/10
B65H 20/06
B21C 47/00
B21C 47/34
(11) EP3514089
(21) EP16892939.6
(47) 26.01.2022
(87) JP2016077310
22.03.2018
(22) 15.09.2016
(54) WINDING TENSION APPLYING DEVICE FOR SLIT STRIP
(73) JDC, Inc.
(72) HASHIKAWA Naoto

(51) B65H 45/24
(11) EP3781506
(21) EP19728536.4
(47) 26.01.2022
(87) IB2019053678
14.11.2019
(22) 06.05.2019
(54) SUCTION ROLLER STRUCTURE FOR INTERFOLDING MACHINES
(73) United Converting S.r.l.
(72) TORRI, Angelo
GIOMETTI, Gianluca
LUPI, Giuseppe
(31) 201800005097
(32) 07.05.2018
(33) Italy

(51) B65H 75/18
(11) EP3663247
(21) EP18210900.9
(47) 26.01.2022
(22) 06.12.2018
(54) WINDING CORE END PROTECTOR
(73) Double E Company LLC
(72) Van Deurse, Michael
Sandford, Greg

(51) B66B 1/24
(11) EP3492412
(21) EP18209160.3
(47) 26.01.2022
(22) 29.11.2018
(54) SEQUENCE TRIGGERING FOR AUTOMATIC CALLS & MULTI-SEGMENT ELEVATOR TRIPS
(73) Otis Elevator Company
(72) Simcik, Paul A.
Nichols, Stephen Richard
Daniels, Harrison
Scoville, Bradley Armand
(31) 201715855495
201762593017 P
(32) 27.12.2017
30.11.2017
(33) United States of America
United States of America

(51) B66B 1/46
(11) EP3625161
(21) EP18729790.8
(47) 26.01.2022
(87) US2018030808
22.11.2018
(22) 03.05.2018
(54) SYSTEM AND METHOD FOR CALLING ELEVATOR
(73) Carrier Corporation
(72) KUENZI, Adam
SCOVILLE, Bradley, Armand
(31) 201762508165 P
(32) 18.05.2017
(33) United States of America

(51) B66B 5/22
(11) EP3702310
(21) EP19214981.3
(47) 26.01.2022
(22) 10.12.2019
(54) ELEVATOR SAFETY WITH TRANSLATING SAFETY BLOCK
(73) Otis Elevator Company
(72) PU, Yu
MUSTAFA, Tanjil
(31) 201916287628

(32) 27.02.2019
(33) United States of America

(51) B66B 7/10
(11) EP3403980
(21) EP18172166.3
(47) 26.01.2022
(22) 14.05.2018
(54) METHOD FOR TENSIONING OF A LOAD BEARING MEMBER OF AN ELEVATOR SYSTEM
(73) Otis Elevator Company
(72) RUSH, Daniel
(31) 201762506891 P
(32) 16.05.2017
(33) United States of America

(51) B66B 9/08
(11) EP3713864
(21) EP18839903.4
(47) 26.01.2022
(87) NL2018050789
31.05.2019
(22) 26.11.2018
(54) A RACK FOR A STAIRWAY GUIDE, AND A METHOD OF PROVIDING A STAIRWAY GUIDE COMPRISING A RACK
(73) DeVi-Group B.V.
(72) VROEGINDEWEIJ, Dennis
(31) 2019972
(32) 24.11.2017
(33) Netherlands

(51) B66B 11/00
B66B 11/02
(11) EP3237318
(21) EP14853158.5
(47) 26.01.2022
(87) IB2014003127
30.06.2016
(22) 23.12.2014
(54) ELEVATOR SYSTEM WITH VENTILATION SYSTEM
(73) Otis Elevator Company
(72) BONATRE, Guillaume
GONZALEZ, René Cfa division de nsa
MOUGIN, Sébastien

(51) B66C 13/02
B66C 23/52
B66D 1/50
B66D 1/52
B63B 27/10
(11) EP3551567
(21) EP17817290.4
(47) 26.01.2022
(87) NL2017050812
14.06.2018
(22) 05.12.2017
(54) A WAVE-INDUCED MOTION COMPENSATING CRANE FOR USE ON AN OFFSHORE VESSEL, VESSEL AND LOAD TRANSFERRING METHOD
(73) Itrec B.V.
(72) VAN VELUW, Cornelis Martinus
WIECK, Bart Otto Fredrik
ROODENBURG, David
DEN BOER, Wouter Jacob Willem
(31) 2017937
(32) 06.12.2016
(33) Netherlands

(51) B66F 7/28
B66F 17/00
(11) EP3674250
(21) EP19214903.7
(47) 26.01.2022
(22) 10.12.2019
(54) DEVICE FOR CLOSING OR BRIDGING A FLOOR OPENING
(73) BlitzRotary GmbH
(72) Angst, Bernhard
(31) 102018132905
(32) 19.12.2018
(33) Germany

(51) B67D 1/00
B67D 1/12
(11) EP2819946
(21) EP13708331.7
(47) 26.01.2022
(87) US2013027889
06.09.2013
(22) 27.02.2013
(54) AUTOMATED BEVERAGE DISPENSING SYSTEM WITH ICE AND BEVERAGE DISPENSING
(73) The Coca-Cola Company
(72) ANGUS, Andrew, Mark
SELLAHEWA, Ravisha
ROB, Mark, David
DOCKRILL, Mark, Brian
ANDERSON, Scott, Alexander
NICOLL, Kenneth, Andrew
PICKETT, Sean
HOUGHTON, Stephen
(31) 201261603403 P
(32) 27.02.2012
(33) United States of America

(51) B81C 1/00
B81B 7/00
(11) EP3730454
(21) EP19200070.1
(47) 26.01.2022
(22) 27.09.2019
(54) MEMS DEVICE AND FABRICATION METHOD THEREOF
(73) Wuhan Yanxi Micro Components Co., Ltd.
(72) LIAO, Pei-chun
DONG, Wei
LIN, Re-ching
(31) 201910325646
(32) 22.04.2019
(33) China

(51) C01B 3/00
(11) EP3541742
(21) EP17797545.5
(47) 26.01.2022
(87) EP2017077168
24.05.2018
(22) 24.10.2017
(54) METHOD FOR STORING HYDROGEN GAS, HYDROGENATION REACTOR, AND TRANSPORT CONTAINER
(73) HYDROGENIOUS LOHC TECHNOLOGIES GMBH
(72) RANDIG, Cornelius
KUSCHE, Matthias
TEICHMANN, Daniel
PAETZ, Caspar
WESTERATH, Federico
MELCHER, Berthold
(31) 102016222597
(32) 16.11.2016
(33) Germany

(51) C01B 3/38
C01B 3/50
C01B 3/32
(11) EP3448805
(21) EP17725506.4
(47) 26.01.2022
(87) EP2017000533
02.11.2017
(22) 28.04.2017
(54) INSTALLATION AND METHOD FOR CARBON RECOVERY AND STORAGE, WITHOUT THE USE OF GAS COMPRESSION
(73) Mair, Christian
(72) Mair, Christian
(31) 2212016
(32) 28.04.2016
(33) Austria

(51) C01B 19/00
C30B 29/46
H01L 35/16
(11) EP3686156
(21) EP19851005.9
(47) 26.01.2022
(87) KR2019010787
27.02.2020
(22) 23.08.2019
(54) CHALCOGEN COMPOUND, METHOD FOR PRODUCING SAME, AND THERMOELEMENT COMPRISING SAME
(73) LG CHEM, LTD.
(72) PARK, Cheol Hee
KIM, Minkyoung
JUNG, Myungjin
PARK, Chee Sung
(31) 20180099493
(32) 24.08.2018
(33) Korea (Republic)

(51) C01B 25/37
A61K 8/29
A61Q 17/04
C01G 23/00
C09C 1/36
A61K 8/02
A61Q 1/02
A61Q 19/00
(11) EP3604218
(21) EP18774847.0
(47) 26.01.2022
(87) JP2018011098
04.10.2018
(22) 20.03.2018
(54) WHITE PIGMENT TITANIUM PHOSPHATE POWDER FOR COSMETICS
(73) Fujimi Incorporated
(72) MIWA, Naoya
ASHITAKA, Keiji
IWAKUNI, Mayumi
(31) 2017068350
(32) 30.03.2017

(33) Japan

(51) C01B 32/30
C01B 32/39
C01B 32/336
B01J 20/20
C10B 49/02
C10B 53/02
B01J 20/30
(11) EP3094593
(21) EP15737937.1
(47) 26.01.2022
(87) US2015011787
23.07.2015
(22) 16.01.2015
(54) CARBON MICRO-PLANT
(73) Carbon Technology Holdings, LLC
(72) DESPEN, Daniel, J.
REAMER, David
MENNELL, James, A.
(31) 201461928100 P
(32) 16.01.2014
(33) United States of America

(51) C01B 33/158
B01J 13/00
(11) EP3677547
(21) EP18877578.7
(47) 26.01.2022
(87) KR2018009617
23.05.2019
(22) 21.08.2018
(54) METHOD FOR RECYCLING SUPERCRITICAL WASTE LIQUID GENERATED DURING PROCESS OF PRODUCING SILICA AEROGEL BLANKET
(73) LG Chem, Ltd.
(72) LEE, Je Kyun
KANG, Tae Gyeong
(31) 20170154145
(32) 17.11.2017
(33) Korea (Republic)

(51) C01B 33/18
C01B 13/14
C01B 33/12
B01J 20/30
C01G 19/02
C01G 23/047
C01G 23/053
C01F 7/02
C01F 7/00
B01J 20/28
C01F 17/00
(11) EP3521247
(21) EP19165003.5
(47) 26.01.2022
(22) 11.01.2012
(54) FLAKE-LIKE MESOPOROUS PARTICLES AND MANUFACTURING METHOD THEREFOR
(73) Nippon Sheet Glass Company, Limited
(72) FURUICHI, Toshitaka
DOSHITA, Kazuhiro
SHIMOKAWA, Kosei
(31) 2011003417
(32) 11.01.2011
(33) Japan

(51) C01B 39/48
B01J 29/70
C01B 39/04
B01J 29/80
(11) EP3450397
(21) EP17789623.0
(47) 26.01.2022
(87) JP2017016605
02.11.2017
(22) 26.04.2017
(54) MSE-TYPE ZEOLITE PRODUCTION METHOD
(73) MITSUI MINING & SMELTING CO., LTD.
The University of Tokyo
(72) SOGUKKANLI, Sibel
ITABASHI, Keiji
ELANGOVAN, Shanmugam Palani
OKUBO, Tatsuya
(31) 2016088588
(32) 26.04.2016
(33) Japan

(51) C01C 3/02
(11) EP3830033
(21) EP19739306.9
(47) 26.01.2022
(87) EP2019069235
06.02.2020
(22) 17.07.2019
(54) PROCESS FOR THE PURIFICATION OF HYDROGEN CYANIDE AND PROCESS FOR PREPARING 2-HYDROXY-4-(METHYLTHIO)BUTYRONITRILE
(73) Evonik Operations GmbH
(72) BECKER, Catrin Dorothee
KÖRFER, Martin
EICKER, Michael
BUSSMANN, Marko
MERKER, Thorsten
(31) 18186212
(32) 30.07.2018
(33) European Patent Office (EPO)

(51) C01F 17/247
C01F 17/271
C02F 1/28
C02F 1/52
C09C 1/36
A61K 33/244
B01J 20/02
B01J 20/06
B01J 20/28
B01J 20/30
B01J 20/32
A61P 1/00
A61P 3/00
A61P 3/12
A61P 7/08
A61P 43/00
(11) EP2194028
(21) EP10151585.6
(47) 26.01.2022
(22) 08.08.2003
(54) Rare earth metal compounds, methods of making, and methods of using the same
(73) Unicycive Therapeutics, Inc.
(72) Schauer, Edward
Prochazka, Jan
Moerck, Rudi E.
Spitler, Timothy M.
(31) 444774
461175
430284
403868 P
(32) 23.05.2003
08.04.2003
02.12.2002
14.08.2002
(33) United States of America
United States of America
United States of America
United States of America

(51) C02F 1/24
B01D 19/00
B01D 19/02
B03D 1/02
B03D 1/08
B03D 1/14
B03D 1/24
C02F 101/30
(11) EP3455170
(21) EP17718104.7
(47) 26.01.2022
(87) EP2017059615
16.11.2017
(22) 24.04.2017
(54) DEVICE AND METHOD FOR PURIFICATION OF WASTEWATER
(73) Unilever IP Holdings B.V.
(72) PRATAP, Shailendra
GUPTA, Santosh, Kumar
CHATTERJEE, Jaideep
ABDUL KAREEM, Shajahan
(31) 16168760
(32) 09.05.2016
(33) European Patent Office (EPO)

(51) C02F 1/32
C02F 1/70
C02F 1/72
C02F 1/467
H01L 31/0224
C02F 1/461
C02F 101/30
C02F 101/34
C02F 103/00
C02F 103/08
C02F 103/10
B33Y 80/00
B33Y 10/00
(11) EP3452411
(21) EP17792960.1
(47) 26.01.2022
(87) SG2017050236
09.11.2017
(22) 05.05.2017
(54) A PHOTOELECTROCHEMICAL CELL FOR WASTEWATER TREATMENT AND METHOD OF FABRICATING THE PHOTOELECTROCHEMICAL CELL
(73) National University of Singapore
(72) MOUSSET, Emmanuel
WANG, Zuxin
LEFEBVRE, Olivier Patrick
(31) 201662332563 P
(32) 06.05.2016
(33) United States of America

(51) C02F 1/42
B01J 41/07
(11) EP3392203

(21) EP17208781.9
(47) 26.01.2022
(22) 20.12.2017
(54) METHOD FOR GENERATING AN INCREASE IN THE CONDUCTANCE OF DEMINERALISED WATER
(73) Aquis Wasser-Luft-Systeme GmbH, Lindau, Zweigniederlassung Rebstein
(72) HEITELE, Bernd
(31) 102017110658
102017108295
(32) 17.05.2017
19.04.2017
(33) Germany
Germany
(51) C02F 1/52
C02F 1/20
C02F 1/66
C02F 11/00
(11) EP3740456
(21) EP18826585.4
(47) 26.01.2022
(87) EP2018085295
25.07.2019
(22) 17.12.2018
(54) METHOD AND ASSEMBLY FOR RECOVERING MAGNESIUM AMMONIUM PHOSPHATE
(73) CNP CYCLES GMBH
(72) ORTWEIN, Bernhard
KLAMP, Thomas
(31) 102018101081
(32) 18.01.2018
(33) Germany
(51) C02F 1/52
C02F 1/72
C02F 11/10
C02F 101/10
C02F 103/36
(11) EP2768778
(21) EP13710394.1
(47) 26.01.2022
(87) EP2013055453
19.09.2013
(22) 15.03.2013
(54) METHOD FOR TREATING PRODUCTION EFFLUENTS OF AN AROMATIC COMPOUND DERIVED FROM DIHYDROXYBENZENE
(73) RHODIA OPERATIONS
(72) SATIER, Bertrand
GAREL, Laurent
(31) 1252415
(32) 16.03.2012
(33) France
(51) C02F 1/56
B01J 20/24
C02F 101/30
C02F 103/26
B01J 20/26
(11) EP2760797
(21) EP12775387.9
(47) 26.01.2022
(87) US2012057889
04.04.2013
(22) 28.09.2012
(54) METHOD FOR FLOCCULATING ALGAE USING POLYMERS INCLUDING TANNIN
(73) BL Technologies, Inc.
(72) WALTERICK, Gerald, Cecil, Jr.
WHITT, David
JUCHCINSKI, John
(31) 201161540278 P
(32) 28.09.2011
(33) United States of America
(51) C02F 1/72
C02F 1/42
C02F 1/66
C02F 101/36
C02F 1/02
C02F 103/36
C01D 3/14
(11) EP3448815
(21) EP17724716.0
(47) 26.01.2022
(87) AT2017060106
02.11.2017
(22) 25.04.2017
(54) METHOD FOR OXIDISING HYDROCARBONS AND SIMILAR IN AQUEOUS SALT SOLUTIONS
(73) Kanzler, Walter
(72) Kanzler, Walter
(31) 2162016
(32) 27.04.2016
(33) Austria
(51) C02F 5/10
C02F 5/12
C08F 220/56
C08F 220/06
C08F 220/02
C02F 5/08
C02F 1/68
C02F 103/06
C02F 103/02
C02F 103/08
C02F 103/10
C02F 103/28
(11) EP3328800
(21) EP16831396.3
(47) 26.01.2022
(87) US2016044645
02.02.2017
(22) 29.07.2016
(54) SCALE INHIBITING POLYMER MIXTURES AND METHODS OF USING THE SAME
(73) Ecolab USA Inc.
(72) CHUDOMEL, John
GILL, Jasbir
BANERJEE, Santanu
(31) 201562198612 P
(32) 29.07.2015
(33) United States of America
(51) C02F 9/00
C10L 9/08
(11) EP3356299
(21) EP16777557.6
(47) 26.01.2022
(87) EP2016072238
06.04.2017
(22) 20.09.2016
(54) SYSTEM FOR TREATING ORGANIC WASTE MATERIAL WITH HYDROTHERMAL CARBONATION
(73) GRENOL IP GmbH
(72) ALFONS, Kuhles
(31) 102015116366
(32) 28.09.2015
(33) Germany
(51) C03B 33/02
B23K 26/00
B23K 26/38
C03B 33/04
C03B 33/09
B23K 26/06
C03B 33/08
B23K 26/359
B23K 26/382
B23K 26/53
B23K 26/55
B23K 103/00
B23K 26/0622
(11) EP3511302
(21) EP19157782.4
(47) 26.01.2022
(22) 16.12.2014
(54) LASER PROCESSING OF SLOTS AND HOLES
(73) Corning Incorporated
(72) MARJANOVIC, Sasha
PIECH, Garrett Andrew
WAGNER, Robert Stephen
TSUDA, Sergio
HACKERT, Thomas
(31) 201414536009
201462022855 P
201361917148 P
(32) 07.11.2014
10.07.2014
17.12.2013
(33) United States of America
United States of America
United States of America
(51) C03B 33/02
B23K 26/067
B23K 26/064
B23K 26/0622
B23K 103/00
B23K 26/38
B23K 26/06
(11) EP3227241
(21) EP15818107.3
(47) 26.01.2022
(87) US2015063063
09.06.2016
(22) 01.12.2015
(54) GLASS CUTTING SYSTEMS AND METHODS USING NON-DIFFRACTING LASER BEAMS
(73) Corning Incorporated
(72) WEST, James Andrew
(31) 201462087406 P
(32) 04.12.2014
(33) United States of America
(51) C03B 33/037
C03B 33/07
(11) EP3757078
(21) EP20173535.4
(47) 26.01.2022

(22) 07.05.2020
(54) METHOD FOR PROVIDING LAMINATED GLASS PANES STARTING FROM A LAMINATED GLASS SHEET
(73) Macotec S.R.L.
(72) COLLI, Maurizio
(31) 201900010353
(32) 28.06.2019
(33) Italy

(51) C03B 40/00
F27B 9/24
C03B 35/18
F27D 3/02
(11) EP3830506
(21) EP19739989.2
(47) 26.01.2022
(87) EP2019068992
06.02.2020
(22) 15.07.2019
(54) ROLLER FOR A ROLLER HEARTH FURNACE
(73) SMS Group GmbH
(72) KINTSCHER, Björn
PIEPER, Markus
HOEN, Karl
(31) 102018220216
102018212702
(32) 26.11.2018
30.07.2018
(33) Germany
Germany

(51) C03C 4/02
C03C 3/064
C03C 14/00
C09D 7/61
C09D 5/16
A01N 59/20
A01N 59/24
C09D 5/14
C08K 3/22
C08K 3/015
C08K 5/36
C08K 3/40
C08K 7/20
(11) EP3313794
(21) EP16734825.9
(47) 26.01.2022
(87) US2016038648
29.12.2016
(22) 22.06.2016
(54) COLORLESS COPPER-CONTAINING MATERIAL
(73) Corning Incorporated
(72) LYNN, Jeffrey Glenn
VERRIER, Florence Christine Monique
LAHIRI, Joydeep
(31) 201562185193 P
(32) 26.06.2015
(33) United States of America

(51) C03C 17/245
B32B 18/00
C03C 17/34
C04B 35/505
(11) EP3431454
(21) EP17766584.1
(47) 26.01.2022
(87) JP2017009868
21.09.2017
(22) 13.03.2017
(54) LIGHT-TRANSMITTING MATERIAL, LOW-ADHESION MATERIAL AND MOLDING MEMBER
(73) Towa Corporation
(72) KISHIMOTO, Tomoko
FUJIWARA, Kunihiko
HIGASHI, Daisuke
(31) 2016052024
(32) 16.03.2016
(33) Japan

(51) C03C 21/00
(11) EP3445733
(21) EP17722217.1
(47) 26.01.2022
(87) US2017028193
26.10.2017
(22) 18.04.2017
(54) WITNESS LAYERS FOR GLASS ARTICLES
(73) Apple Inc.
(72) MEMERING, Dale N.
LUZZATO, Victor
QU, Dezheng
(31) 201615134973
(32) 21.04.2016
(33) United States of America

(51) C03C 27/06
C08G 73/10
C09J 1/00
E06B 3/663
(11) EP3611143
(21) EP19199634.7
(47) 26.01.2022
(22) 14.09.2016
(54) GLASS PANEL UNIT AND GLASS WINDOW
(73) Panasonic Intellectual Property Management Co., Ltd.
(72) HASEGAWA, Kazuya
ABE, Hiroyuki
ISHIBASHI, Tasuku
URIU, Eiichi
NONAKA, Masataka
(31) 2015191952
(32) 29.09.2015
(33) Japan

(51) C03C 27/12
B32B 17/10
B60J 1/00
(11) EP3476811
(21) EP17815398.7
(47) 26.01.2022
(87) JP2017022693
28.12.2017
(22) 20.06.2017
(54) LAMINATED GLASS
(73) AGC INC.
(72) NAKAMURA Atsushi
(31) 2016125385
(32) 24.06.2016
(33) Japan

(51) C03C 27/12
B32B 17/10
B60J 1/00
B60J 1/02
B29C 48/08
B29C 48/13
B29C 48/21
(11) EP3357888
(21) EP16851668.0
(47) 26.01.2022
(87) JP2016078688
06.04.2017
(22) 28.09.2016
(54) INTERLAYER FOR LAMINATED GLASS AND LAMINATED GLASS
(73) Sekisui Chemical Co., Ltd.
(72) TSUNODA, Ryuta
OOTA, Yuusuke
NISHINO, Hiromitsu
(31) 2015195408
(32) 30.09.2015
(33) Japan

(51) C04B 33/00
B02C 15/00
B02C 25/00
C04B 33/02
C09C 1/00
C04B 35/626
(11) EP3802457
(21) EP19730741.6
(47) 26.01.2022
(87) EP2019065154
12.12.2019
(22) 11.06.2019
(54) DRY PREPARATION OF KAOLIN IN THE PRODUCTION OF HPA
(73) SMS Group GmbH
(72) MUSTAFI, Emir
STASTNY, Raffael
GIER-ZUCKETTO, Joachim
SCHRIEWER, Thorsten
(31) 102019200191
102018209210
(32) 09.01.2019
08.06.2018
(33) Germany
Germany

(51) C04B 35/01
C03C 17/245
C23C 14/08
C23C 14/34
H01B 1/08
H01B 5/14
H01B 13/00
C04B 35/495
H01L 31/0224
H01L 31/18
C04B 35/626
C04B 35/64
H01B 1/00
H01L 27/30
H01L 31/0264
(11) EP3441376
(21) EP17756402.8
(47) 26.01.2022
(87) JP2017006045
31.08.2017
(22) 20.02.2017
(54) OXIDE SINTERED BODY AND TRANSPARENT CONDUCTIVE OXIDE FILM
(73) Tosoh Corporation
(72) KURAMOCHI Hideto
AKIIKE Ryo

TSUCHIDA Yuya
(31) 2016223540
2016031403
(32) 16.11.2016
22.02.2016
(33) Japan
Japan

(51) C04B 35/46
C04B 35/468
C04B 35/475
C04B 35/49
H01L 41/43
H01L 41/00
H01L 41/187
H01L 41/25
C04B 35/626
C04B 35/634
C04B 35/64
C01G 23/00
(11) EP3577090
(21) EP18705967.0
(47) 26.01.2022
(87) GB2018050307
09.08.2018
(22) 02.02.2018
(54) CERAMIC MATERIAL COMPRISING A PSEUDO-CUBIC PHASE, A PROCESS FOR PREPARING AND USES OF THE SAME
(73) Xaar Technology Limited
(72) GIBBONS, Brady
CANN, David
MARDILOVICH, Peter
(31) 201701828
(32) 03.02.2017
(33) United Kingdom

(51) C04B 35/565
C04B 35/571
C04B 35/573
C04B 35/58
(11) EP3700876
(21) EP18833262.1
(47) 26.01.2022
(87) FR2018052999
06.06.2019
(22) 27.11.2018
(54) PARTICULATE CERAMIC COMPOSITE MATERIAL, PART COMPRISING THE SAME, AND METHOD FOR THE PRODUCTION OF SAID PART
(73) Commissariat à l'énergie atomique et aux énergies alternatives
(72) SCHUSTER, Frédéric
PIQUERO, Thierry
MARTEGOUTTE, Julien
DAVID, Patrick
(31) 1761375
(32) 29.11.2017
(33) France

(51) C05C 9/00
C05G 5/30
C08G 71/04
C05G 3/00
C08G 18/36
C08G 18/38
(11) EP2638099
(21) EP11785251.7
(47) 26.01.2022
(87) US2011059759
18.05.2012
(22) 08.11.2011
(54) CONTROLLED RELEASE FERTILIZERS MADE FROM CROSS-LINKED GLYCERIDE MIXTURES
(73) Agrium U.S. Inc.
(72) HARGROVE, Garrard Lee
XING, Baozhong
AVDALA, Romen
CARSTENS, Leslie L.
MARUVADA, Sriramakrishna
(31) 412251 P
(32) 10.11.2010
(33) United States of America

(51) C07C 17/389
C07C 19/043
C07C 19/07
C07C 19/075
C07C 19/08
C07C 19/10
C07C 19/12
C09K 3/30
C09K 5/00
C09K 21/08
C09K 5/04
(11) EP2989071
(21) EP14725755.4
(47) 26.01.2022
(87) GB2014051259
30.10.2014
(22) 23.04.2014
(54) PROCESS FOR PURIFYING (HYDRO)HALOCARBON COMPOSITIONS
(73) Mexichem Amanco Holding S.A. de C.V.
(72) HAYES, John
SHARRATT, Andrew
REES, Claire
(31) 201307327
(32) 23.04.2013
(33) United Kingdom

(51) C07C 29/76
C07C 29/60
C07C 31/20
(11) EP3087046
(21) EP14875780.0
(47) 26.01.2022
(87) US2014069274
02.07.2015
(22) 09.12.2014
(54) IMPROVED PROCESSES FOR PRODUCING PROPYLENE GLYCOL
(73) Archer Daniels Midland Company
(72) TERRIAN, Joshua
SOPER, John G.
(31) 201361920131 P
(32) 23.12.2013
(33) United States of America

(51) C07C 45/48
C07C 49/76
(11) EP3638644
(21) EP18730368.0
(47) 26.01.2022
(87) EP2018066030
20.12.2018
(22) 15.06.2018
(54) PROCESS FOR THE CATALYTIC DECARBOXYLATIVE CROSS-KETONIZATION OF ARYL AND ALIPHATIC CARBOXYLIC ACID
(73) Rhodia Operations
(72) MARION, Philippe
BACK, Olivier
(31) 17306791
17305744
(32) 15.12.2017
16.06.2017
(33) European Patent Office (EPO)
European Patent Office (EPO)

(51) C07C 57/05
B01D 3/14
B01D 3/36
B01D 3/42
C07C 51/44
(11) EP2334633
(21) EP09792691.9
(47) 26.01.2022
(87) US2009057411
08.04.2010
(22) 18.09.2009
(54) CONTROL OF A PROCESS FOR THE PURIFICATION OF (METH) ACRYLIC ACID USING ON-LINE, NEAR IR ANALYSIS
(73) Arkema, Inc.
(72) HO, Fungau
FRUCHEY, Olan, S.
ETZKORN, William, G.
ROUNDY, Roger, L.
WIEGAND, Patrick, M.
LIGON, Timothy, D.
JAWAID, Mahmood, N.A.
REEVES, Christopher, T.
(31) 101743 P
(32) 01.10.2008
(33) United States of America

(51) C07C 209/78
(11) EP3160934
(21) EP15729526.2
(47) 26.01.2022
(87) EP2015063934
30.12.2015
(22) 22.06.2015
(54) METHOD FOR PRODUCING DI- AND POLYAMINES OF THE DIPHENYLMETHANE SERIES
(73) Covestro Intellectual Property GmbH & Co. KG
(72) WERSHOFEN, Stefan
GRUNER, Klaus-Gerd
HARTJES, Volker
KNAUF, Thomas
(31) 14173580
(32) 24.06.2014
(33) European Patent Office (EPO)

(51) C07C 319/06
C07C 321/04
C12P 11/00
C12N 9/02
(11) EP3356325
(21) EP16785250.8
(47) 26.01.2022
(87) FR2016052479
06.04.2017

(22) 29.09.2016
(54) METHOD FOR PRODUCING MERCAPTANS BY DISULFIDE ENZYME HYDROGENOLYSIS
(73) Arkema France
(72) FREMY, Georges
MASSELIN, Arnaud
(31) 1559257
(32) 30.09.2015
(33) France

(51) C07C 405/00
B01D 15/32
(11) EP3116854
(21) EP15715811.4
(47) 26.01.2022
(87) HU2015000024
17.09.2015
(22) 11.03.2015
(54) NEW PROCESS FOR THE PREPARATION OF HIGH PURITY PROSTAGLANDINS
(73) CHINOIN Gyógyszer és Vegyészeti Termékek Gyára Zrt.
(72) TAKÁCS, László
HORTOBÁGYI, Irén
BUZDER-LANTOS, Péter
HAVASI, Gábor
VAJDA, Ervin
LÁSZLÓFI, István
KARDOS, Zsuzsanna
(31) P1400140
(32) 13.03.2014
(33) Hungary

(51) C07D 209/88
C09K 11/06
H01L 51/50
(11) EP3312159
(21) EP16811624.2
(47) 26.01.2022
(87) JP2016067694
22.12.2016
(22) 14.06.2016
(54) COMPOUND, MATERIAL FOR ORGANIC ELECTROLUMINESCENCE ELEMENT, ORGANIC ELECTROLUMINESCENCE ELEMENT, AND ELECTRONIC DEVICE
(73) Idemitsu Kosan Co., Ltd
(72) HAKETA, Tasuku
KAWAMURA, Masahiro
IKEDA, Yoichi
MIZUKI, Yumiko
(31) 2015120993
(32) 16.06.2015
(33) Japan

(51) C07D 211/58
(11) EP3470394
(21) EP17810418.8
(47) 26.01.2022
(87) JP2017021419
14.12.2017
(22) 09.06.2017
(54) METHOD FOR PREPARING 4-(PIPERIDIN-4-YL)MORPHOLINE
(73) Yuki Gosei Kogyo Co., Ltd.
(72) ISHIKAWA Hiromi
NAKAGAWA Kiyono
TAKEDA Yukiko
(31) 2016115040
(32) 09.06.2016
(33) Japan

(51) C07D 231/12
C07D 403/04
C07C 251/76
(11) EP3601230
(21) EP18714249.2
(47) 26.01.2022
(87) EP2018058056
04.10.2018
(22) 29.03.2018
(54) SYNTHESIS OF MCL-1 INHIBITOR
(73) Astrazeneca AB
(72) YE, Qing
STARK, Andrew
HAZRA, Debasis
HARDY, Simon
FERRAR, Cati
HIRD, Alexander
STEWART, Craig
ZHENG, Xiaolan
KOEK, Jan
(31) 201762479493 P
(32) 31.03.2017
(33) United States of America

(51) C07D 235/30
C07D 401/04
C07D 403/04
C07D 405/04
C07D 413/04
C07D 471/08
A61K 31/4184
A61K 31/4439
A61K 31/506
A61P 35/00
A61P 25/00
A61P 19/00
A61P 17/00
A61P 3/00
A61P 1/00
(11) EP3350170
(21) EP16770654.8
(47) 26.01.2022
(87) US2016052107
23.03.2017
(22) 16.09.2016
(54) HETEROARYL COMPOUNDS AS IRAK INHIBITORS AND USES THEREOF
(73) Merck Patent GmbH
(72) JORAND-LEBRUN, Catherine
CLARK, Ryan C.
CHEN, Austin
LAN, Ruoxi
(31) 201562220358 P
(32) 18.09.2015
(33) United States of America

(51) C07D 237/26
A61P 25/00
A61P 25/18
A61P 25/24
A61P 25/28
A61P 25/30
(11) EP3083569
(21) EP14870710.2
(47) 26.01.2022
(87) US2014071644
25.06.2015
(22) 19.12.2014
(54) BENZODIAZEPINE DERIVATIVES, COMPOSITIONS, AND METHODS FOR TREATING COGNITIVE IMPAIRMENT
(73) Agenebio, Inc.
(72) HUANG, Jianxing
BUTERA, John, A.
MEKONNEN, Belew
(31) 201462075743 P
201361919394 P
201361919390 P
(32) 05.11.2014
20.12.2013
20.12.2013
(33) United States of America
United States of America
United States of America

(51) C07D 241/20
C07D 241/28
C07D 403/04
C07D 403/08
C07D 403/14
C07D 405/12
C07D 413/14
C07D 413/04
C07D 417/04
A61P 35/00
A61K 31/497
(11) EP3762368
(21) EP19768926.8
(47) 26.01.2022
(87) US2019021186
28.11.2019
(22) 07.03.2019
(54) AMINOPYRAZINE DIOL COMPOUNDS AS PI3K-Y INHIBITORS
(73) Incyte Corporation
(72) FALAHATPISHEH, Nikoo
SHAO, Lixin
SHEPARD, Stacey
COMBS, Andrew P.
(31) 201862745873 P
201862702230 P
201862640276 P
(32) 15.10.2018
23.07.2018
08.03.2018
(33) United States of America
United States of America
United States of America

(51) C07D 307/87
A61K 31/343
A61P 25/24
(11) EP3694843
(21) EP18796753.4
(47) 26.01.2022
(87) IB2018057824
18.04.2019
(22) 09.10.2018
(54) NEW SALT AND SOLID STATE FORMS OF ESCITALOPRAM
(73) Hasleton, Mark
(72) WU, Raeann Ruiyun
FRENKEL, Anton
(31) 201762569755 P
(32) 09.10.2017
(33) United States of America

(51) C07D 307/94

A61K 31/343
A61P 25/22
(11) EP3611170
(21) EP18802608.2
(47) 26.01.2022
(87) CN2018000167
22.11.2018
(22) 09.05.2018
(54) DEUTERATED COMPOUNDS AND MEDICAL USE THEREOF AS ANTIANXIETY AGENTS
(73) BEIJING JUNKE HUAYUAN MED TECH CO., LTD.
(72) YANG, Jiajun
ZHONG, Bohua
(31) 201710355025
(32) 19.05.2017
(33) China

(51) C07D 319/06
C07D 233/60
C07C 219/06
C07C 229/12
C07D 207/12
C07D 207/16
C07D 211/22
C07D 295/088
C07D 211/62
A61K 31/7088
(11) EP3083579
(21) EP14827644.7
(47) 26.01.2022
(87) US2014070891
25.06.2015
(22) 17.12.2014
(54) LIPIDS AND LIPID COMPOSITIONS FOR THE DELIVERY OF ACTIVE AGENTS
(73) Novartis AG
(72) CHEN, Delai
LOVE, Kevin
ZABAWA, Thomas
ZECRI, Frederic
BRITO, Luis
GEALL, Andrew
GAMBER, Gabriel Grant
(31) 201361918941 P
201361918182 P
(32) 20.12.2013
19.12.2013
(33) United States of America
United States of America

(51) C07D 401/04
A61K 31/437
A61P 19/06
(11) EP3397627
(21) EP16881141.2
(47) 26.01.2022
(87) CN2016112071
06.07.2017
(22) 26.12.2016
(54) INDOLIZINE DERIVATIVES, COMPOSITION AND METHODS OF USE
(73) Chongqing Fochon Pharmaceutical Co., Ltd
Shanghai Fochon Pharmaceutical Co., Ltd.
(72) SUN, Jing
TAN, Rui
TAN, Haohan
ZHOU, Zuwen
LIU, Qihong
ZHANG, Weipeng
ZHANG, Huajie
LIU, Bin
WANG, Weibo
ZHAO, Xingdong
YU, Chuiliang
WANG, Xianlong
LI, Zhifu
RONG, Yue
LI, Tongshuang
(31) 201562272067 P
(32) 28.12.2015
(33) United States of America

(51) C07D 401/12
A61K 31/506
A61P 35/00
(11) EP3371165
(21) EP16804956.7
(47) 26.01.2022
(87) US2016060508
11.05.2017
(22) 04.11.2016
(54) A BTK INHIBITOR FOR USE IN TREATING CANCER
(73) Merck Patent GmbH
(72) HUCK, Bayard R.
GOODSTAL, Samantha M.
GIMMI-MCKIM, Claude
(31) 201662341189 P
201662296143 P
201562250575 P
(32) 25.05.2016
17.02.2016
04.11.2015
(33) United States of America
United States of America
United States of America

(51) C07D 401/12
A61P 25/30
A61K 31/497
(11) EP3724176
(21) EP18826892.4
(47) 26.01.2022
(87) US2018064512
20.06.2019
(22) 07.12.2018
(54) FUMARATE SALT OF (R)-3-(1-(2,3-DICHLORO-4-(PYRAZIN-2-YL)PHENYL)-2,2,2-TRIFLUOROETHYL)-1-METHYL-1-(1-METHYLPIPERIDIN-4-YL) UREA, METHODS OF PREPARATION, AND USES THEREOF
(73) Helsinn Healthcare SA
(72) GARCIA RUBIO, Silvina
PIETRA, Claudio
PERSEGHINI, Mauro
GUAINAZZI, Angelo
GIULIANO, Claudio
(31) 201762597236 P
(32) 11.12.2017
(33) United States of America

(51) C07D 401/14
A61K 31/506
A61K 31/5377
A61K 31/55
A61K 31/551
A61K 31/553
A61P 19/08
A61P 35/00
A61P 43/00
C07D 405/14
C07D 413/14
C07D 417/14
C07D 451/02
C07D 471/04
C07D 471/08
C07D 471/10
C07D 487/08
(11) EP3564232
(21) EP17888576.0
(47) 26.01.2022
(87) JP2017046508
05.07.2018
(22) 26.12.2017
(54) BMP-SIGNAL-INHIBITING COMPOUND
(73) The University of Tokyo
Riken
(72) HASHIZUME, Yoshinobu
SATO, Tomohiro
TANAKA, Akiko
YAMAMOTO, Hirofumi
SEKIMATA, Katsuhiko
KODA, Yasuko
KOYAMA, Hiroo
MIYAZONO, Kohei
TAGURI, Tomonori
KUBOTA, Hirokazu
(31) 2016254414
(32) 27.12.2016
(33) Japan

(51) C07D 405/12
C07D 307/91
H01L 51/50
(11) EP3502107
(21) EP18213749.7
(47) 26.01.2022
(22) 18.12.2018
(54) 1-AMINODIBENZOFURAN-BASED COMPOUND AND ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME
(73) Samsung Display Co., Ltd.
(72) Baek, Jangyeol
Kim, Jongwoo
Youngkook, Kim
Hwang, Seokhwan
Jeong, Eunjae
Han, Sanghyun
(31) 20180137609
20170176483
(32) 09.11.2018
20.12.2017
(33) Korea (Republic)
Korea (Republic)

(51) C07D 413/12
C07D 249/04
C07D 419/12
C07D 419/14
C07D 471/04
C07D 498/04
A61P 11/00

A61P 9/04
A61K 31/553
A61K 31/554
(11) EP3555082
(21) EP17818633.4
(47) 26.01.2022
(87) IB2017057807
21.06.2018
(22) 11.12.2017
(54) ETHER LINKED TRIAZOLES AS NRF2 REGULATORS
(73) GlaxoSmithKline Intellectual Property Development Limited
Astex Therapeutics Limited
(72) WILLEMS, Hendrika Maria Gerarda
KERNS, Jeffrey K.
GOODWIN, Nicole Cathleen
COOPER, Anthony William James
HEIGHTMAN, Thomas Daniel
YAN, Hongxing
GRIFFITHS-JONES, Charlotte Mary
(31) 201662434500 P
(32) 15.12.2016
(33) United States of America

(51) C07D 413/12
C07D 263/48
A61P 35/00
A61K 31/422
(11) EP3562824
(21) EP17818246.5
(47) 26.01.2022
(87) GB2017053821
05.07.2018
(22) 19.12.2017
(54) OXAZOLE DERIVATIVES FOR USE IN THE TREATMENT OF CANCER
(73) LifeArc
(72) OSBORNE, Simon
LARGE, Jonathan
(31) 201622362
(32) 29.12.2016
(33) United Kingdom

(51) C07D 413/14
A61K 31/5355
A61P 35/00
A61P 3/10
(11) EP3672962
(21) EP18759105.2
(47) 26.01.2022
(87) EP2018072791
28.02.2019
(22) 23.08.2018
(54) MORPHOLINYLPYRIDONE COMPOUNDS
(73) Sprint Bioscience AB
(72) LINDSTRÖM, Johan
FORSBLOM, Rickard
VIKLUND, Jenny
(31) 17187567
(32) 23.08.2017
(33) European Patent Office (EPO)

(51) C07D 471/04
A61P 31/12
A61K 31/497
(11) EP3728255
(21) EP18839861.4
(47) 26.01.2022
(87) IB2018060122
27.06.2019
(22) 14.12.2018
(54) AMIDE SUBSTITUTED IMIDAZO[4,5-C]QUINOLINE COMPOUNDS WITH A BRANCHED CHAIN LINKING GROUP FOR USE AS AN IMMUNE RESPONSE MODIFIER
(73) 3M Innovative Properties Company
(72) GRIESGRABER, George W.
(31) 201762608334 P
(32) 20.12.2017
(33) United States of America

(51) C07D 471/04
H01L 51/00
H01L 51/50
C09K 11/06
(11) EP3333168
(21) EP17186962.1
(47) 26.01.2022
(22) 18.08.2017
(54) CONDENSED CYCLIC COMPOUND AND ORGANIC LIGHT-EMITTING DEVICE INCLUDING THE SAME
(73) Samsung Display Co., Ltd.
(72) Youngkook, KIM
Hyoyoung, LEE
Seokhwan, HWANG
Junha, PARK
Munki, SIM
JEONG, Eunjae
(31) 20160168009
(32) 09.12.2016
(33) Korea (Republic)

(51) C07D 487/04
A61K 31/4162
A61K 31/519
A61P 35/00
(11) EP3474855
(21) EP17816286.3
(47) 26.01.2022
(87) US2017038976
28.12.2017
(22) 23.06.2017
(54) CK2 INHIBITORS, COMPOSITIONS AND METHODS THEREOF
(73) Polaris Pharmaceuticals, Inc.
(72) WEBBER, Stephen, E.
BRIN, Elena
TAO, Xueliang
(31) 201662354308 P
(32) 24.06.2016
(33) United States of America

(51) C07D 487/04
A61K 31/519
A61P 15/00
(11) EP3099689
(21) EP14824549.1
(47) 26.01.2022
(87) IN2014000662
06.08.2015
(22) 20.10.2014
(54) PYRAZOLOPYRIMIDINONES FOR THE TREATMENT OF IMPOTENCE AND PROCESS FOR THE PREPARATION THEREOF
(73) Council of Scientific and Industrial Research
(72) VISHWAKARMA, Ram Asrey
DAR, Mohd Ishaq
SYED, Sajad Hussain
NARGOTRA, Amit
SAWANT, Sanghapal Damodhar
MAHESUNI, Srinivas
GINNEREDDY, Lakshma Reddy
MAHAJAN, Priya
(31) 281DE2014
(32) 30.01.2014
(33) India

(51) C07D 487/04
A61K 31/519
A61P 35/00
(11) EP3724191
(21) EP18836977.1
(47) 26.01.2022
(87) US2018065187
20.06.2019
(22) 12.12.2018
(54) 5-(2-(2,5-DIFLUOROPHENYL)PYRROLIDIN-1-YL)-3-(1H-PYRAZOL-1-YL)PYRAZOLO[1,5-A]PYRIMIDINE DERIVATIVES AND RELATED COMPOUNDS AS TRK KINASE INHIBITORS FOR TREATING CANCER
(73) Pyramid Biosciences, Inc.
(72) BOUDREAULT, Jonathan
ALBERT, Vincent
BRUNEAU-LATOUR, Nicolas
PAL, Kollol
CIBLAT, Stephane
(31) 201762599490 P
(32) 15.12.2017
(33) United States of America

(51) C07D 487/22
C07F 5/02
A61K 31/409
A61P 35/00
(11) EP3201201
(21) EP15778052.9
(47) 26.01.2022
(87) IB2015057501
07.04.2016
(22) 30.09.2015
(54) SPECIFICALLY MESO-SUBSTITUTED PORPHYRINS AND CHLORINS FOR PHOTODYNAMIC THERAPY
(73) Freie Universität Berlin
biolitec Unternehmensbeteiligungs II AG
(72) ALBRECHT, Volker
WIEHE, Arno
GRÄFE, Susanna
REISSIG, Hans-ulrich
GOLF, Hartwig Richard Arthur
(31) 201462057353 P
(32) 30.09.2014
(33) United States of America

(51) C07D 498/06
A61P 35/00
A61K 31/5383
(11) EP3581576
(21) EP19189853.5
(47) 26.01.2022
(22) 14.03.2014
(54) TRICYCLIC HETEROCYCLES AS BET PROTEIN INHIBITORS FOR USE IN THE TREATMENT OF A

PROLIFERATIVE DISEASE IN COMBINATION WITH A JANUS KINASE INHIBITOR
(73) Incyte Holdings Corporation
(72) COMBS, Andrew P.
SPARKS, Richard B.
RODGERS, James D.
MADUSKUIE, Thomas P. Jr.
(31) 201361794812 P
(32) 15.03.2013
(33) United States of America

(51) C07D 499/00
A61K 31/431
A61K 31/4439
A61K 31/497
A61P 31/04
C07D 499/76
(11) EP3778609
(21) EP19781624.2
(47) 26.01.2022
(87) JP2019015176
10.10.2019
(22) 05.04.2019
(54) PENAM DERIVATIVES OR SALTS THEREOF, PHARMACEUTICAL COMPOSITIONS AND USE THEREOF
(73) FUJIFILM Corporation
(72) MATSUURA Kei
NAKAE Tomofumi
FURUYA Kentaro
SHOJI Muneo
(31) 2018073568
(32) 06.04.2018
(33) Japan

(51) C07D 499/46
A61K 31/431
A61P 31/04
(11) EP3693374
(21) EP18864010.6
(47) 26.01.2022
(87) JP2018037355
11.04.2019
(22) 05.10.2018
(54) NOVEL 2-CARBOXYPENAM COMPOUND OR SALT THEREOF, PHARMACEUTICAL COMPOSITION CONTAINING SAID COMPOUND OR SALT, AND APPLICATION THEREOF
(73) FUJIFILM Corporation
(72) SHOJI, Muneo
FURUYA, Kentaro
MATSUURA, Kei
HAYASHI, Hiromi
MATSUSHITA, Tetsuya
OMURA, Hirofumi
(31) 2017194763
(32) 05.10.2017
(33) Japan

(51) C07F 9/6509
C07F 9/6558
C07D 401/12
C07D 237/24
A61K 31/50
A61K 31/501
(11) EP3555111
(21) EP17822919.1
(47) 26.01.2022
(87) US2017065665
21.06.2018
(22) 12.12.2017
(54) PHOSPHINE OXIDE ALKYL AMIDE SUBSTITUTED HETEROARYL COMPOUNDS AS MODULATORS OF IL-12, IL-23, AND/OR IFN ALPHA RESPONSES
(73) Bristol-Myers Squibb Company
(72) YANG, Michael G.
WEINSTEIN, David S.
DUNCIA, John V.
XIAO, Zili
(31) 201662433470 P
(32) 13.12.2016
(33) United States of America

(51) C07F 15/02
A61K 31/555
A61K 31/409
(11) EP3567047
(21) EP17890662.4
(47) 26.01.2022
(87) KR2017014174
12.07.2018
(22) 06.12.2017
(54) CHEMICAL METHOD FOR PREPARING HEME IRON NOT DERIVED FROM PORCINE BLOOD
(73) Intron Biotechnology, Inc.
(72) KANG, Sang Hyeon
HWANG, Soon Hye
YOON, Seong Jun
PYO, Jung In
JUN, Soo Youn
(31) 20170000520
(32) 03.01.2017
(33) Korea (Republic)

(51) C07J 17/00
A61P 1/04
A61P 1/16
C07J 41/00
A61K 31/58
A61K 31/575
C07J 9/00
(11) EP3733684
(21) EP18857390.1
(47) 26.01.2022
(87) ES2018070840
04.07.2019
(22) 28.12.2018
(54) URSODEOXYCHOLIC ACID DERIVATIVES FOR THE TREATMENT OF POLYCYSTIC DISEASES
(73) Fundació Institut d'Investigació Biomèdica de Bellvitge (IDIBELL)
Universidad del País Vasco/Euskal Herriko Unibertsitatea
Universidad De Salamanca
Administración General de la Comunidad Autónoma de Euskadi
(72) BAÑALES ASURMENDI, Jesús María
COSSÍO MORA, Fernando Pedro
SANTOS LASO, Álvaro
BUJANDA FERNÁNDEZ DE PIÉROLA, Luis
RIVILLA DE LA CRUZ, Iván
GARCÍA MARÍN, José Juan
CABALLERO CAMINO, Francisco Javier
ESTELLER BADOSA, Manel
(31) 201731488
(32) 28.12.2017
(33) Spain

(51) C07K 1/00
G01N 33/53
C12Q 1/32
C12N 9/04
G01N 33/535
G01N 33/58
(11) EP3083657
(21) EP14871809.1
(47) 26.01.2022
(87) US2014069532
25.06.2015
(22) 10.12.2014
(54) PREPARATION OF MULTI-HAPTEN MUTANT G6PDH CONJUGATES AND THEIR USE FOR DETECTION OF MULTIPLE ANALYTES
(73) Siemens Healthcare Diagnostics Inc.
(72) MORJANA, Nihmat
HUDSON, Linda
ZHENG, Yi Feng
YANG, Yali
(31) 201361917015 P
(32) 17.12.2013
(33) United States of America

(51) C07K 1/13
C07K 19/00
C09B 15/00
C09B 69/10
G01N 33/48
G01N 33/532
G01N 33/58
(11) EP3483172
(21) EP16907773.2
(47) 26.01.2022
(87) CN2016088625
11.01.2018
(22) 05.07.2016
(54) ACRIDINE-MARKER CONJUGATE AND PREPARATION METHOD THEREOF, AND CHEMILUMINESCENCE KIT
(73) Shenzhen Yhlo Biotech Co., Ltd
(72) ZHU, Liang
XIAO, Chengyong
QIAN, Chungen
LIU, Taoxu
XIA, Fuzhen

(51) C07K 1/14
C07K 1/34
C07K 14/415
C12N 5/04
C12N 15/00
C12N 15/82
(11) EP3354657
(21) EP18157629.9
(47) 26.01.2022
(22) 21.09.2010
(54) METHOD OF PREPARING PLANT-DERIVED PROTEINS
(73) Medicago Inc.
(72) PAQUET, Dany
VEZINA, Louis-Philippe
COUTURE, Manon
DARGIS, Michele
D'AOUST, Marc-Andre
(31) 244786 P

(32) 22.09.2009
(33) United States of America

(51) C07K 1/22
C12N 15/09
C07K 14/32
C07K 7/00
B01D 15/38
(11) EP3210994
(21) EP15853595.5
(47) 26.01.2022
(87) JP2015079753
28.04.2016
(22) 21.10.2015
(54) PURIFICATION METHOD, PURIFICATION KIT, AND SILICA-BINDING TAG USING SAME
(73) Hiroshima University
(72) KURODA, Akio
FUNABASHI, Hisakage
IKEDA, Takeshi
(31) 2014215789
(32) 22.10.2014
(33) Japan

(51) C07K 14/065
A61P 37/00
A61P 29/00
A61K 38/16
A61K 48/00
C07K 14/005
C12N 7/00
C12N 15/86
A61K 9/00
(11) EP3116898
(21) EP15761543.6
(47) 26.01.2022
(87) US2015020001
17.09.2015
(22) 11.03.2015
(54) AAV-EXPRESSED M013 PROTEIN AS AN ANTI-INFLAMMATROY THERAPEUTIC FOR USE IN A METHOD OF TREATING INFLAMMATORY OCULAR DISEASE
(73) University of Florida Research Foundation, Inc.
(72) MCFADDEN, Douglas Grant
ILDEFONSO, Cristhian J.
LUCAS, Alexandra Rose
LEWIN, Alfred S.
RAHMAN, Mohammed Masmudur
(31) 201461951294 P
(32) 11.03.2014
(33) United States of America

(51) C07K 14/405
C12N 15/82
(11) EP3472187
(21) EP17816042.0
(47) 26.01.2022
(87) US2017038278
28.12.2017
(22) 20.06.2017
(54) A GREEN ALGA BICARBONATE TRANSPORTER AND USES THEREOF
(73) Board of Supervisors of Louisiana State University and Agricultural and Mechanical College
(72) BAJSA-HIRSCHEL, Joanna, N.
MACHINGURA, Marylou, C.
MORONEY, James, V.
(31) 201662352278 P
(32) 20.06.2016
(33) United States of America

(51) C07K 14/47
A61K 38/00
A61P 9/00
A61P 11/00
A61P 13/12
A61P 17/00
A61P 27/02
A61P 35/00
C07K 14/54
C07K 14/435
C07K 14/705
(11) EP3555122
(21) EP17825183.1
(47) 26.01.2022
(87) EP2017083032
21.06.2018
(22) 15.12.2017
(54) DECOY CYTOKINE RECEPTOR
(73) Singapore Health Services Pte Ltd
National University of Singapore
(72) COOK, Stuart Alexander
SCHAEFER, Sebastian
(31) 201621431
(32) 16.12.2016
(33) United Kingdom

(51) C07K 14/70
C07K 14/715
A61K 39/395
A61P 31/18
A61P 43/00
(11) EP3377524
(21) EP16838028.5
(47) 26.01.2022
(87) IB2016001868
26.05.2017
(22) 19.11.2016
(54) HIV ANTIBODY FUSION PROTEINS WITH DUAL ANTIVIRAL AND IMMUNOMODULATORY ACTIVITY
(73) Fundació Privada Institut de Recerca de la SIDA-Caixa
(72) CARRILLO MOLINA, Jorge
CLOTET SALA, Bonaventuna
BLANCO ARBUÉS, Julián, M.
(31) 201514948274
(32) 21.11.2015
(33) United States of America

(51) C07K 14/705
C12N 15/12
A61K 31/7088
A61K 38/17
A61K 45/06
A61P 35/00
(11) EP3394093
(21) EP16826843.1
(47) 26.01.2022
(87) US2016068552
29.06.2017
(22) 23.12.2016
(54) METHODS OF USING OX40 LIGAND ENCODING POLYNUCLEOTIDES
(73) Modernatx, Inc.
(72) FREDERICK, Joshua
BAI, Ailin
(31) 201662290413 P
201562387168 P
(32) 02.02.2016
23.12.2015
(33) United States of America
United States of America

(51) C07K 14/725
A61K 48/00
A61K 35/17
C07K 16/10
C07K 14/16
C12N 5/0783
C12N 15/867
A61P 31/18
(11) EP3419997
(21) EP17707262.6
(47) 26.01.2022
(87) EP2017054249
31.08.2017
(22) 23.02.2017
(54) T CELL RECEPTORS FROM THE HIV-SPECIFIC REPERTOIRE, MEANS FOR THEIR PRODUCTION AND THERAPEUTIC USES THEREOF
(73) Institut National de la Santé Et de la Recherche Médicale
Institut Pasteur
(72) GALPERIN, Moran
CHAKRABARTI, Lisa, Amita
BENATI, Daniela
(31) 16305218
(32) 24.02.2016
(33) European Patent Office (EPO)

(51) C07K 14/735
C07K 16/46
C07K 19/00
A61K 38/00
C07K 16/28
A61K 39/00
A61P 35/00
(11) EP3230311
(21) EP15867381.4
(47) 26.01.2022
(87) US2015064572
16.06.2016
(22) 08.12.2015
(54) SOLUBLE UNIVERSAL ADCC-ENHANCING SYNTHETIC FUSION GENE AND PEPTIDE TECHNOLOGY AND ITS USE THEREOF
(73) 1Globe Biomedical Co., Ltd.
(72) UNNIRAMAN, Shyam
LI, Chiang J.
(31) 201562200557 P
201462089097 P
(32) 03.08.2015
08.12.2014
(33) United States of America
United States of America

(51) C07K 16/00
C07K 16/18
C07K 16/28
(11) EP3248986
(21) EP17178990.2
(47) 26.01.2022
(22) 13.05.2015
(54) IMMUNOGLOBULIN VARIABLE DOMAINS

(73) Ablynx NV
(72) Boutton, Carlo
Buyse, Marie-Ange
(31) 201562133600 P
201462047560 P
201462040167 P
201461014015 P
201461994552 P
(32) 16.03.2015
08.09.2014
21.08.2014
18.06.2014
16.05.2014
(33) United States of America
United States of America
United States of America
United States of America
United States of America

(51) C07K 16/24
G01N 33/564
G01N 33/68
A61K 51/10
A61K 39/00
(11) EP3016978
(21) EP14750320.5
(47) 26.01.2022
(87) EP2014064167
08.01.2015
(22) 03.07.2014
(54) HUMAN ANTI-IFN-ALPHA ANTIBODIES
(73) ImmunoQure AG
(72) WOODWARD, Martin
HAQUE, Syeda F. Y.
VLAICU, Philip
HAYDAY, Adrian
MACAGNO, Annalisa
KISAND, Kai
PETERSON, Pärt
MEYER, Steffen
KROHN, Kai
ROTHE, Mike
(31) 13174995
(32) 03.07.2013
(33) European Patent Office (EPO)

(51) C07K 16/28
(11) EP3280734
(21) EP16716795.6
(47) 26.01.2022
(87) US2016026352
13.10.2016
(22) 07.04.2016
(54) ANTI-FLT-1 ANTIBODIES FOR TREATING DUCHENNE MUSCULAR DYSTROPHY
(73) Takeda Pharmaceutical Company Limited
(72) DE JONGE, Natalie
GABRIELS, Sofie
DE HAARD, Hans
KEEFE, Dennis
(31) 201662307645 P
201562144251 P
(32) 14.03.2016
07.04.2015
(33) United States of America
United States of America

(51) C07K 16/28
(11) EP3440110
(21) EP17715705.4
(47) 26.01.2022
(87) EP2017057997
12.10.2017
(22) 04.04.2017
(54) MONOVALENT INHIBITOR OF HUTNFR1 INTERACTION
(73) Universität Stuttgart
Baliopharm AG
(72) RICHTER, Fabian
SCHEURICH, Peter
ZETTLITZ, Kirstin
PFIZENMAIER, Klaus
KONTERMANN, Roland
HERRMANN, Andreas
(31) 16163822
(32) 05.04.2016
(33) European Patent Office (EPO)

(51) C07K 19/00
C07K 16/30
C12N 15/63
C12N 15/62
A61K 39/395
A61P 35/00
C07K 16/28
A61K 39/00
C07K 14/005
C07K 14/435
(11) EP3138854
(21) EP16189342.5
(47) 26.01.2022
(22) 04.03.2010
(54) ANTIBODIES AGAINST CD40
(73) Baylor Research Institute
(72) AKAGAWA, Keiko
BANCHEREAU, Jacques, F.
KLUCAR, Peter
FLAMAR, Anne-Laure
MONTES, Monica
ZURAWSKI, Gerald
(31) 159062 P
159055 P
159059 P
(32) 10.03.2009
10.03.2009
10.03.2009
(33) United States of America
United States of America
United States of America

(51) C08B 15/02
(11) EP3091036
(21) EP14877031.6
(47) 26.01.2022
(87) KR2014012307
09.07.2015
(22) 15.12.2014
(54) METHOD FOR PREPARING HYDROXYPROPYL METHYLCELLULOSE ACETATE SUCCINATE (HPMCAS) GRAINS HAVING CONTROLLED GRAIN SIZE DISTRIBUTION, AND HPMCAS POWDER
(73) LOTTE Fine Chemical Co., Ltd.
(72) SON, Jin Ryul
PARK, Kyung Yeol
JEONG, Ji Seon
SHIN, Ju Hee
LEE, Sang Youb
CHUN, Jeong Hee
BANG, Sung Hwan
(31) 20140177826
20130169404
(32) 10.12.2014
31.12.2013
(33) Korea (Republic)
Korea (Republic)

(51) C08B 37/08
A61K 47/36
(11) EP3768729
(21) EP19721024.8
(47) 26.01.2022
(87) IB2019052034
26.09.2019
(22) 13.03.2019
(54) CONJUGATES OF STANOZOLOL AND HYALURONIC ACID
(73) Acme Drugs S.r.l.
(72) PREDIERI, Paolo Giulio
(31) 201800003841
(32) 21.03.2018
(33) Italy

(51) C08F 8/04
C08F 20/10
C08F 20/06
C08F 16/34
C08F 16/36
C08F 216/08
B32B 27/28
B65D 65/40
B65D 81/24
C08F 220/14
C08F 120/14
C08F 120/18
C08F 220/18
(11) EP3239188
(21) EP15873218.0
(47) 26.01.2022
(87) JP2015086109
30.06.2016
(22) 24.12.2015
(54) POLYMETHALLYL ALCOHOL COPOLYMER AND MOLDING CONTAINING SAME, AND METHOD OF PRODUCING POLYMETHALLYL ALCOHOL COPOLYMER
(73) Kuraray Co., Ltd.
(72) NONAKA, Yasuhiro
(31) 2014260489
(32) 24.12.2014
(33) Japan

(51) C08F 10/06
C08J 3/00
C08K 5/00
(11) EP3204433
(21) EP15774608.2
(47) 26.01.2022
(87) EP2015072767
14.04.2016
(22) 02.10.2015
(54) PROCESS FOR THE PREPARATION OF AN ALPHA-NUCLEATED POLYPROPYLENE
(73) Borealis AG
(72) GAHLEITNER, Markus
MILEVA, Daniela

DOSHEV, Petar
WANG, Jingbo
(31) 14187853
(32) 07.10.2014
(33) European Patent Office (EPO)

(51) C08F 210/16
C08F 2/00
(11) EP2970535
(21) EP14709091.4
(47) 26.01.2022
(87) US2014017667
18.09.2014
(22) 21.02.2014
(54) POLYMER PRODUCTS AND MULTI-STAGE POLYMERIZATION PROCESSES FOR THE PRODUCTION THEREOF
(73) Univation Technologies, LLC
(72) PANNELL, Richard, B.
(31) 201361790730 P
(32) 15.03.2013
(33) United States of America

(51) C08F 212/10
C08F 2/44
C08F 2/38
C08K 9/04
C08K 3/36
C08L 55/02
C08L 25/12
C08F 292/00
C08F 2/18
(11) EP3689920
(21) EP18861557.9
(47) 26.01.2022
(87) KR2018011639
04.04.2019
(22) 01.10.2018
(54) METHOD FOR PREPARING COPOLYMER AND COPOLYMER
(73) LG Chem, Ltd.
(72) KIM, Young Min
HEO, Jae Won
(31) 20180116461
20170127975
(32) 28.09.2018
29.09.2017
(33) Korea (Republic)
Korea (Republic)

(51) C08F 220/18
C09J 4/00
(11) EP3134444
(21) EP15718707.1
(47) 26.01.2022
(87) US2015025080
29.10.2015
(22) 09.04.2015
(54) COMPOSITIONS COMPRISING CLEAVABLE CROSSLINKER AND METHODS
(73) 3M Innovative Properties Company
(72) VOGEL, Dennis E.
CLAPPER, Jason D.
GADDAM, Babu N.
FORNOF, Ann R. H.
(31) 201461983532 P
(32) 24.04.2014
(33) United States of America

(51) C08F 236/14
C08K 3/04
C08K 3/36
C08K 5/11
C08K 5/14
C08L 15/00
(11) EP3333201
(21) EP16832877.1
(47) 26.01.2022
(87) JP2016072071
09.02.2017
(22) 27.07.2016
(54) NITRILE GROUP-CONTAINING HIGHLY SATURATED COPOLYMER RUBBER, CROSSLINKABLE RUBBER COMPOSITION, AND CROSSLINKED RUBBER
(73) Zeon Corporation
(72) NAKAI, Akito
SUGAWARA, Shinsuke
(31) 2015154794
(32) 05.08.2015
(33) Japan

(51) C08F 283/00
A61L 24/00
(11) EP2569342
(21) EP11781147.1
(47) 26.01.2022
(87) US2011035933
17.11.2011
(22) 10.05.2011
(54) ORGANOPHOSPHOROUS, MULTIVALENT METAL COMPOUNDS,&POLYMER ADHESIVE INTERPENETRATING NETWORK COMPOSITIONS&METHODS
(73) Howmedica Osteonics Corp.
(72) KIMSEY, Cassandra, L.
MURPHY, Matthew, E.
GARIGAPATI, Venkat, R.
HESS, Brian, J.
(31) 333478 P
(32) 11.05.2010
(33) United States of America

(51) C08F 283/12
C08L 77/00
(11) EP2868678
(21) EP14190005.0
(47) 26.01.2022
(22) 23.10.2014
(54) Thermoplastic Resin Composition Comprising Acrylic-Modified Silicone Resin
(73) Nissin Chemical Industry Co., Ltd.
(72) Masuda, Yukihiro
Watanabe, Kentaro
(31) 2013226291
(32) 31.10.2013
(33) Japan

(51) C08F 290/04
B01F 17/00
(11) EP3727662
(21) EP18842800.7
(47) 26.01.2022
(87) FR2018053516
27.06.2019
(22) 21.12.2018
(54) SUBMICRONIC EMULSION
(73) Coatex
(72) CHAMPAGNE, Clémentine
SUAU, Jean-Marc
(31) 1762696
(32) 21.12.2017
(33) France

(51) C08G 18/48
C08G 18/76
C08G 18/32
C09J 175/08
(11) EP3180375
(21) EP15750904.3
(47) 26.01.2022
(87) US2015044556
18.02.2016
(22) 11.08.2015
(54) MOISTURE VAPOR TRANSMISSION THERMOPLASTIC POLYURETHANE WITH HIGH HEAT RESISTANCE
(73) Lubrizol Advanced Materials, Inc.
(72) MAKAL, Umit G.
(31) 201462035544 P
(32) 11.08.2014
(33) United States of America

(51) C08G 18/75
A43B 13/04
C08G 18/00
C08G 18/10
C08G 101/00
C08G 18/66
(11) EP3543273
(21) EP17871310.3
(47) 26.01.2022
(87) JP2017040836
24.05.2018
(22) 14.11.2017
(54) THERMOPLASTIC POLYURETHANE RESIN FOR FOAMING AND PRODUCTION METHOD THEREOF, AND MOLDED ARTICLE
(73) Mitsui Chemicals, Inc.
(72) AOKI, Wataru
HASEGAWA, Daisuke
YAMASAKI, Satoshi
SARUWATARI, Masumi
KAGEOKA, Masakazu
(31) 2016224421
(32) 17.11.2016
(33) Japan

(51) C08G 18/79
C08G 18/80
C08G 18/08
C08G 18/28
C09D 175/04
(11) EP3347397
(21) EP16760088.1
(47) 26.01.2022
(87) EP2016070792
16.03.2017
(22) 05.09.2016
(54) WATER-EMULSIFIABLE ISOCYANATES WITH IMPROVED PROPERTIES
(73) BASF SE
(72) AL-HELLANI, Rabie
LUCAS, Frederic
ROLLER, Sebastian
HAEBERLE, Karl
TROMSDORF, Ulrich
(31) 15184131

(32) 07.09.2015
(33) European Patent Office (EPO)

(51) C08G 59/42
C08G 59/62
C09J 163/00
C08G 59/40
C08L 63/00
C09J 5/06
(11) EP3642257
(21) EP18731481.0
(47) 26.01.2022
(87) EP2018066735
27.12.2018
(22) 22.06.2018
(54) METHOD FOR CONNECTING MOULDED BODIES BY INJECTION OF A SINGLE-COMPONENT THERMOSETTING EPOXY RESIN COMPOSITION INTO A CAVITY
(73) Sika Technology AG
(72) RHEINEGGER, Urs
VOCI, Antonio
MUNZINGER, Noah
(31) 17177416
(32) 22.06.2017
(33) European Patent Office (EPO)

(51) C08G 63/682
(11) EP3732227
(21) EP18822394.5
(47) 26.01.2022
(87) EP2018086523
04.07.2019
(22) 21.12.2018
(54) A FLUORINATED ETHER POLYMER, THE PREPARATION METHOD THEREFORE AND USE THEREOF
(73) Akzo Nobel Coatings International B.V.
(72) LU, Junbiao
XING, Shili
SHI, Zheng
WANG, Jianhui
XU, Zhenglin
(31) PCT/CN2017/118492
18165713
(32) 26.12.2017
04.04.2018
(33) World Intellectual Property Office (WIPO)
European Patent Office (EPO)

(51) C08G 69/26
C08G 69/40
C08L 77/06
B29C 64/40
(11) EP3688065
(21) EP18779652.9
(47) 26.01.2022
(87) EP2018076366
04.04.2019
(22) 27.09.2018
(54) METHOD FOR MANUFACTURING A THREE-DIMENSIONAL OBJECT USING DIMENSIONALLY STABLE AND WATER SOLUBLE POLYAMIDE SUPPORT MATERIAL
(73) Rhodia Operations
Solvay Specialty Polymers USA, LLC
(72) MASTROIANNI, Sergio
MICHON, Marie-Laure
JEOL, Stéphane
SINGLETARY, Nancy
(31) 201762564616 P
(32) 28.09.2017
(33) United States of America

(51) C08G 73/00
B32B 15/08
C08J 5/24
C08L 47/00
C08L 61/04
C08L 63/00
C08L 79/00
H05K 1/03
C08G 8/28
C08G 10/04
C08G 73/06
C08G 73/12
C08L 61/14
C08L 79/08
(11) EP3521337
(21) EP18744634.9
(47) 26.01.2022
(87) JP2018001624
02.08.2018
(22) 19.01.2018
(54) RESIN COMPOSITION, PREPREG, METAL FOIL-CLAD LAMINATED SHEET, RESIN SHEET, AND PRINTED WIRING BOARD
(73) Mitsubishi Gas Chemical Company, Inc.
(72) KOGA, Shota
TAKANO, Kentaro
(31) 2017012365
(32) 26.01.2017
(33) Japan

(51) C08G 77/04
C08L 83/04
C08J 3/07
C09D 183/04
G02B 1/111
(11) EP3172260
(21) EP15822675.3
(47) 26.01.2022
(87) US2015040440
21.01.2016
(22) 14.07.2015
(54) HIGH GAIN DURABLE ANTI-REFLECTIVE COATING
(73) First Solar, Inc
(72) GONSALVES, Peter R.
MOVASSAT, Meisam
ABRAMS, Ze'ev R.
BROPHY, Brenor L.
COLSON, Thomas E.
MAGHSOODI, Sina
VARADARAJAN, Aravamuthan
(31) 201414491259
201462024440 P
(32) 19.09.2014
14.07.2014
(33) United States of America
United States of America

(51) C08J 3/22
C08L 33/10
C08L 51/04
C08L 63/00
(11) EP3237500
(21) EP15817865.7
(47) 26.01.2022
(87) EP2015081159
30.06.2016
(22) 23.12.2015
(54) COMPOSITION COMPRISING A MULTISTAGE POLYMER, IT METHOD OF PREPARATION AND ITS USE
(73) Arkema France
(72) INOUBLI, Raber
HAJJI, Philippe
PIRRI, Rosangela
(31) 1463306
(32) 24.12.2014
(33) France

(51) C08J 3/24
C09D 5/02
C08F 287/00
C08F 8/32
C08F 293/00
C09D 153/00
C08K 5/25
C08L 53/00
C08J 7/04
C08J 7/046
C08J 7/043
C08J 7/056
C09D 151/00
(11) EP3728413
(21) EP18816159.0
(47) 26.01.2022
(87) EP2018085655
27.06.2019
(22) 18.12.2018
(54) WATERBORNE DISPERSIONS
(73) Covestro (Netherlands) B.V.
(72) CRONIN, Jon Andrew
DE BONT, Johannes Hendrikus
OVERBEEK, Gerardus Cornelis
SCHELLEKENS, Michael Arnoldus Jacobus
BARBOSA, John
SHEARER, Charles
GEBHARD, Matthew Stewart
(31) 201762607474 P
201762607481 P
18158224
18158226
(32) 19.12.2017
19.12.2017
22.02.2018
22.02.2018
(33) United States of America
United States of America
European Patent Office (EPO)
European Patent Office (EPO)

(51) C08J 5/08
B29B 15/08
C08J 5/04
C08K 7/14
(11) EP3536736
(21) EP18761920.0
(47) 26.01.2022
(87) JP2018022249
07.09.2018
(22) 11.06.2018
(54) GLASS FIBER REINFORCED RESIN MOLDED ARTICLE
(73) Nitto Boseki Co., Ltd.
(72) NUKUI, Yosuke

SEKIKAWA, Hironobu
TSUCHIGANE, Akane
(31) 2017195811
(32) 06.10.2017
(33) Japan

(51) C08J 5/12
C09J 5/00
B32B 1/02
B32B 7/05
B32B 27/08
B32B 27/30
(11) EP3004224
(21) EP14734344.6
(47) 26.01.2022
(87) US2014040593
11.12.2014
(22) 03.06.2014
(54) WATER-SOLUBLE FILM SEALING SOLUTIONS, RELATED METHODS, AND RELATED ARTICLES
(73) MonoSol, LLC
(72) KUMAR, Sumeet
BROMBY, Percy
LEE, David, M.
(31) 201361830969 P
(32) 04.06.2013
(33) United States of America

(51) C08J 5/18
B29C 35/02
C08K 3/22
C08K 7/06
C08L 101/00
C09K 5/14
C08J 5/04
C08L 101/12
C08L 83/04
H01L 23/373
H01B 1/24
(11) EP3428221
(21) EP17789227.0
(47) 26.01.2022
(87) JP2017014533
02.11.2017
(22) 07.04.2017
(54) METHOD FOR PRODUCING THERMALLY-CONDUCTIVE SHEET
(73) SEKISUI POLYMATECH CO., LTD.
(72) YAMADA Tomonari
KUDOH Hiroki
(31) 2016090588
(32) 28.04.2016
(33) Japan

(51) C08J 7/04
B32B 9/00
B32B 27/36
B29C 55/12
C08G 63/16
B29K 67/00
B29L 9/00
(11) EP3398768
(21) EP16881711.2
(47) 26.01.2022
(87) JP2016088617
06.07.2017
(22) 26.12.2016
(54) LAYERED POLYESTER FILM
(73) Toyobo Co., Ltd.
Furanix Technologies B.V
(72) NUMATA, Yukihiro
VAN BERKEL, Jesper Gabriel
INAGAKI, Jun
(31) 2015257295
(32) 28.12.2015
(33) Japan

(51) C08J 7/04
C08J 3/24
C09D 5/02
C08F 287/00
C08F 8/32
C08F 293/00
C09D 153/00
C08K 5/25
C08L 53/00
C09D 151/00
C08J 7/043
C08J 7/046
C08J 7/056
(11) EP3728412
(21) EP18816158.2
(47) 26.01.2022
(87) EP2018085651
27.06.2019
(22) 18.12.2018
(54) WATERBORNE CROSSLINKABLE DISPERSIONS
(73) Covestro (Netherlands) B.V.
(72) SHEARER, Charles
GEBHARD, Matthew Stewart
SCHELLEKENS, Michael Arnoldus Jacobus
CRONIN, Jon Andrew
BARBOSA, John
DE BONT, Johannes Hendrikus
OVERBEEK, Gerardus Cornelis
(31) 201762607481 P
201762607474 P
18158226
18158224
(32) 19.12.2017
19.12.2017
22.02.2018
22.02.2018
(33) United States of America
United States of America
European Patent Office (EPO)
European Patent Office (EPO)

(51) C08J 7/04
C08J 7/043
C08J 7/046
C09D 183/04
C08G 77/04
(11) EP3737712
(21) EP18830777.1
(47) 26.01.2022
(87) EP2018085305
11.07.2019
(22) 17.12.2018
(54) METHOD FOR PRIMING SILICONE JOINTS
(73) Nass, Jörg
(72) Nass, Jörg
(31) 102018100214
(32) 08.01.2018
(33) Germany

(51) C08J 9/18
C08J 9/00
C08J 9/12
C08J 9/232
(11) EP3381976
(21) EP16868380.3
(47) 26.01.2022
(87) JP2016083280
01.06.2017
(22) 09.11.2016
(54) METHOD FOR PRODUCING POLYPROPYLENE-BASED RESIN FOAMED PARTICLES, POLYPROPYLENE-BASED RESIN FOAMED PARTICLES, AND IN-MOLD FOAM MOLDED ARTICLE
(73) Kaneka Corporation
(72) SATO, Keishi
FUKUZAWA, Jun
(31) 2015230292
(32) 26.11.2015
(33) Japan

(51) C08J 9/30
D06N 3/00
C08J 9/00
C08J 9/35
C09D 5/32
C09D 7/65
D06N 3/06
C09D 7/41
C09D 7/61
(11) EP3303459
(21) EP16728784.6
(47) 26.01.2022
(87) US2016033865
08.12.2016
(22) 24.05.2016
(54) FOAMED AQUEOUS COMPOSITION
(73) Eastman Kodak Company
(72) PYSZCZEK, Ellen J.
NAIR, Mridula
BRICK, Mary, C.
(31) 201615144875
201514730269
(32) 03.05.2016
04.06.2015
(33) United States of America
United States of America

(51) C08K 3/16
(11) EP3390517
(21) EP16831522.4
(47) 26.01.2022
(87) IB2016057573
22.06.2017
(22) 13.12.2016
(54) PROCESS FOR SEPARATING NON-HEVEA NATURAL RUBBER IN SOLID FORM FROM SOLUTIONS INCLUDING IT
(73) Versalis S.p.A.
(72) REGATTIERI, Giovanni
PARISI, Maria
PRANDO, Tommaso
GHIDONI, Dario
(31) UB20159578
(32) 14.12.2015
(33) Italy

(51) C08K 3/26
C08K 5/00
C08L 9/04

(11) EP3775016
(21) EP19720059.5
(47) 26.01.2022
(87) EP2019059217
17.10.2019
(22) 11.04.2019
(54) CALCIUM CARBONATE COMPRISING COMPOSITION FOR ELASTOMERIC FILM PREPARATION
(73) Omya International AG
(72) LAM, Hon-Wan
NG, Chiew-Sum
(31) PI2018701430
(32) 11.04.2018
(33) Malaysia

(51) C08K 5/098
C09D 167/08
(11) EP3296353
(21) EP16189511.5
(47) 26.01.2022
(22) 19.09.2016
(54) SOLVENT-CONTAINING COATING COMPOSITION FOR PAINT COATINGS
(73) DAW SE
(72) Daniel Andre
Menzel Stefan
Herrmann Beatrix

(51) C08K 5/1545
C08K 5/098
C08K 3/22
C08L 23/10
C08J 5/18
(11) EP3775018
(21) EP19713524.7
(47) 26.01.2022
(87) EP2019058319
17.10.2019
(22) 02.04.2019
(54) POLYPROPYLENE COMPOSITION FOR USE IN BOPP APPLICATION, A PROCESS FOR PREPARING BOPP FILMS AND SAID BOPP FILM
(73) SABIC Global Technologies B.V.
(72) VAN MIERLOO, Sarah
JONGERIUS, Daan
VOETS, Patrick
(31) 18166367
(32) 09.04.2018
(33) European Patent Office (EPO)

(51) C08K 7/14
(11) EP3609955
(21) EP18717892.6
(47) 26.01.2022
(87) EP2018059034
18.10.2018
(22) 09.04.2018
(54) ALIPHATIC POLYAMIDE COMPOSITIONS AND CORRESPONDING MOBILE ELECTRONIC DEVICE COMPONENTS
(73) Solvay Specialty Polymers USA, LLC
(72) DAVIS, Raleigh L.
GAUTAM, Keshav S.
PHILLIPS, Karen
(31) 201762483733 P
17175633
(32) 10.04.2017
13.06.2017
(33) United States of America
European Patent Office (EPO)

(51) C08L 9/00
B60C 1/00
C08K 3/36
C08K 5/3477
C08L 7/00
C08L 9/06
C08F 236/10
(11) EP3597695
(21) EP18783646.5
(47) 26.01.2022
(87) JP2018015566
18.10.2018
(22) 13.04.2018
(54) RUBBER COMPOSITION FOR TIRES, AND PNEUMATIC TIRES
(73) Sumitomo Rubber Industries, Ltd.
(72) YOSHIYASU, Hayato
(31) 2017080969
(32) 14.04.2017
(33) Japan

(51) C08L 23/08
C08F 110/02
C08L 23/06
C08F 2/00
C08F 210/16
(11) EP3794071
(21) EP19724779.4
(47) 26.01.2022
(87) EP2019062264
21.11.2019
(22) 14.05.2019
(54) POLYETHYLENE COMPOSITION HAVING HIGH SWELL RATIO, FNCT AND IMPACT RESISTANCE
(73) Basell Polyolefine GmbH
(72) SCHUELLER, Ulf
FIBLA, Claudio
MARCZINKE, Bernd Lothar
DOETSCH, Diana
MEIER, Gerhardus
(31) 18171992
(32) 14.05.2018
(33) European Patent Office (EPO)

(51) C08L 23/12
(11) EP3559112
(21) EP17826493.3
(47) 26.01.2022
(87) EP2017083590
28.06.2018
(22) 19.12.2017
(54) AUTOMOTIVE PART
(73) SABIC Global Technologies B.V.
(72) FEEKES, Mark
BATINAS-GEURTS, Koen
VAN MIERLOO, Sarah
VAN BEEK, Dimphna Johanna Maria
(31) 16206556
16206554
16206545
(32) 23.12.2016
23.12.2016
23.12.2016
(33) European Patent Office (EPO)
European Patent Office (EPO)
European Patent Office (EPO)

(51) C08L 27/18
C08K 3/20
C08K 5/06
C08K 5/095
C08L 71/00
C08L 91/00
C08J 3/03
(11) EP3617268
(21) EP18791377.7
(47) 26.01.2022
(87) JP2018016476
01.11.2018
(22) 23.04.2018
(54) AQUEOUS POLYTETRAFLUOROETHYLENE DISPERSION
(73) AGC Inc.
AGC Chemicals Europe, Limited
(72) CAINE, Diane
TAKAZAWA Masahiro
MORGOVAN-ENE, Ariana Claudia
WADE, Anthony Eugene
KOBAYASHI Shigeki
(31) 2017090702
(32) 28.04.2017
(33) Japan

(51) C08L 45/00
C08L 9/00
C08L 21/00
C08L 7/00
C08K 3/013
B60C 1/00
(11) EP3362512
(21) EP16781786.5
(47) 26.01.2022
(87) EP2016074669
20.04.2017
(22) 14.10.2016
(54) RUBBER COMPOSITION COMPRISING A SPECIFIC HYDROCARBON RESIN
(73) Compagnie Générale des Etablissements Michelin
(72) HUT, Alain
DE GAUDEMARIS, Benoit
(31) 1559874
(32) 16.10.2015
(33) France

(51) C08L 67/02
(11) EP3668926
(21) EP18749389.5
(47) 26.01.2022
(87) EP2018071601
21.02.2019
(22) 09.08.2018
(54) INJECTION MATERIALS CONTAINING SURFACE MODIFIED SILICATES
(73) BASF SE
(72) SKUPIN, Gabriel
EFFEN, Norbert
SPRAFKE, Johannes Klaus
BUSSMANN, Martin
LEHENMEIER, Maximilian
(31) 17186283
(32) 15.08.2017
(33) European Patent Office (EPO)

(51) C08L 77/06
C08L 23/08
C08L 33/06
B32B 27/34

B32B 27/30
(11) EP2766431
(21) EP12780228.8
(47) 26.01.2022
(87) FR2012052275
18.04.2013
(22) 08.10.2012
(54) COMPOSITION COMPRISING A SEMI-AROMATIC POLYAMIDE AND A CROSSLINKED POLYOLEFIN
(73) Arkema France
(72) BLONDEL, Philippe
GERARD, Franck
(31) 1159259
(32) 13.10.2011
(33) France

(51) C08L 83/04
C08K 3/22
B32B 27/28
B32B 1/08
A61L 31/12
C08G 77/04
(11) EP3555213
(21) EP17884667.1
(47) 26.01.2022
(87) US2017067375
28.06.2018
(22) 19.12.2017
(54) SILICONE-BASED COMPOSITION AND ARTICLE MADE THEREFROM
(73) Saint-Gobain Performance Plastics Corporation
(72) LETAILLEUR, Alban
ZHANG, Jianfeng
TZIVANIS, Michael J.
DING, Jian L.
WARD, Brian J.
LIU, Xipeng
(31) 201662436308 P
(32) 19.12.2016
(33) United States of America

(51) C08L 83/06
C09D 183/06
C08G 77/14
(11) EP3662020
(21) EP18755593.3
(47) 26.01.2022
(87) US2018043361
07.02.2019
(22) 24.07.2018
(54) DUAL CURABLE SILICONE COMPOSITIONS
(73) Dow Silicones Corporation
(72) LIU, Nanguo
MCDONALD, Joel
LIU, Junying
(31) 201762539125 P
(32) 31.07.2017
(33) United States of America

(51) C09C 1/02
D21H 19/38
C08K 3/22
C09D 5/00
A61K 8/19
C01F 11/18
A61Q 19/00
A61K 8/02
C09D 1/00
C08K 3/26
D21H 21/52
D21H 17/67
(11) EP3201275
(21) EP15770543.5
(47) 26.01.2022
(87) EP2015072275
07.04.2016
(22) 28.09.2015
(54) PROCESS FOR IMPROVING PARTICLE SIZE DISTRIBUTION OF CALCIUM CARBONATE-COMPRISING MATERIAL
(73) Omya International AG
(72) WERNER, Dennis
SENTI-WENK, Armelle
GOUTARD, Emmanuel
RAINER, Christian
SPEHN, Jürgen
BRUNNER, Martin
TINKL, Michael
POHL, Michael
(31) 201562134283 P
201462061218 P
14186967
(32) 17.03.2015
08.10.2014
30.09.2014
(33) United States of America
United States of America
European Patent Office (EPO)

(51) C09D 5/00
(11) EP3640304
(21) EP18201317.7
(47) 26.01.2022
(22) 18.10.2018
(54) PRIMER FOR PAINTS AND PLASTERS
(73) DAW SE
(72) Klaas, Angela
Heidrich, Holger

(51) C09D 5/18
C09D 163/00
C08G 59/50
C08G 59/24
C08K 5/5435
C09D 7/61
C08K 3/34
C09D 7/42
C08K 5/5333
(11) EP3567083
(21) EP18736442.7
(47) 26.01.2022
(87) KR2018000088
12.07.2018
(22) 03.01.2018
(54) INSULATING AND HEAT-RADIATING COATING COMPOSITION, AND INSULATING AND HEAT-RADIATING PRODUCT IMPLEMENTED THEREWITH
(73) Amogreentech Co., Ltd.
Amosense Co.,Ltd
(72) HWANG, Seung Jae
LEE, Hwan Ku
KIM, Beom Jun
HWANG, Moon Young
(31) 20170000513
(32) 03.01.2017
(33) Korea (Republic)

(51) C09D 5/18
C09K 21/12
(11) EP3712219
(21) EP19164495.4
(47) 26.01.2022
(22) 22.03.2019
(54) FLAME RETARDANT COMPOUND AND USE OF SAME
(73) Hilti Aktiengesellschaft
(72) Jochmann, Phillip
Meier, Christoph

(51) C09D 5/18
C09K 21/12
(11) EP3712218
(21) EP19164494.7
(47) 26.01.2022
(22) 22.03.2019
(54) FLAME RETARDANT COMPOUND AND USE OF SAME
(73) Hilti Aktiengesellschaft
(72) Meier, Christoph
Jochmann, Phillip

(51) C09D 5/44
C09D 133/08
C09D 5/33
C09D 5/02
C08K 5/3475
C09D 133/10
C08K 5/17
(11) EP3237552
(21) EP15817310.4
(47) 26.01.2022
(87) EP2015080767
30.06.2016
(22) 21.12.2015
(54) METHOD FOR PROTECTING WOOD
(73) Akzo Nobel Coatings International B.V.
(72) STUIVER, Anthonie
LITTLE, Anna Frances
SOLLEVELD, Matthijs
PASIKOWSKA, Karolina Renata
(31) 14200303
(32) 24.12.2014
(33) European Patent Office (EPO)

(51) C09D 11/00
(11) EP2744864
(21) EP12743902.4
(47) 26.01.2022
(87) EP2012003347
28.02.2013
(22) 04.08.2012
(54) PRINTING INK SYSTEMS
(73) Clariant International Ltd
(72) FELL, Rainer
HOHNER, Gerd
HERRLICH, Timo
BACH, Sebastijan
TRUE, Daniela
(31) 102011111145
(32) 20.08.2011
(33) Germany

(51) C09D 11/033
C09D 11/30
B41J 2/01
C09D 11/10
B41J 2/14
C09D 11/106
(11) EP3494183

(21) EP17895051.5
(47) 26.01.2022
(87) US2017015899
09.08.2018
(22) 31.01.2017
(54) INKJET INK COMPOSITION AND INKJET CARTRIDGE
(73) Hewlett-Packard Development Company, L.P.
(72) CAGLE, Phillip C.
INGLE, David Michael

(51) C09D 11/101
C09D 11/033
C09D 11/037
C09D 11/322
C09D 11/38
(11) EP3717578
(21) EP19736468.0
(47) 26.01.2022
(87) GB2019051856
16.01.2020
(22) 01.07.2019
(54) ELECTRON BEAM CURABLE COMPOSITIONS COMPRISING POLYOLS
(73) Sun Chemical Corporation
(72) HALL, Stephen Anthony
HERLIHY, Shaun Lawrence
ILLSLEY, Derek Ronald
(31) 201962818772 P
201862760142 P
201862729097 P
201862716472 P
201862697438 P
(32) 15.03.2019
13.11.2018
10.09.2018
09.08.2018
13.07.2018
(33) United States of America
United States of America
United States of America
United States of America
United States of America

(51) C09D 11/101
C09D 11/033
C09D 11/037
C09D 11/322
C09D 11/38
(11) EP3717579
(21) EP19736469.8
(47) 26.01.2022
(87) GB2019051857
16.01.2020
(22) 01.07.2019
(54) AQUEOUS ELECTRON BEAM CURABLE COMPOSITIONS COMPRISING POLY(ALKOXYLATES)
(73) Sun Chemical Corporation
(72) ILLSLEY, Derek Ronald
(31) 201862760142 P
201862729097 P
201862716472 P
201862697438 P
(32) 13.11.2018
10.09.2018
09.08.2018
13.07.2018
(33) United States of America
United States of America
United States of America
United States of America

(51) C09D 11/101
C09D 11/033
C09D 11/037
C09D 11/322
C09D 11/38
(11) EP3717580
(21) EP19736471.4
(47) 26.01.2022
(87) GB2019051859
16.01.2020
(22) 01.07.2019
(54) ELECTRON BEAM-CURABLE COMPOSITIONS COMPRISING POLY(ALKOXYLATES)
(73) Sun Chemical Corporation
(72) ILLSLEY, Derek Ronald
(31) 201862760142 P
201862729097 P
201862716472 P
201862697438 P
(32) 13.11.2018
10.09.2018
09.08.2018
13.07.2018
(33) United States of America
United States of America
United States of America
United States of America

(51) C09D 11/101
C09D 11/102
C09D 11/107
C09D 11/30
(11) EP3380573
(21) EP16787727.3
(47) 26.01.2022
(87) EP2016001744
01.06.2017
(22) 21.10.2016
(54) WATER-BASED HYBRID INK, AND METHOD FOR THE PRODUCTION OF AN ARTICLE PRINTED WITH SAID INK
(73) Durst Austria GmbH
(72) ÖSTERREICHER, Andreas
MOSTEGEL, Florian
SAMUSJEW, Aleksandra
GRIEßER, Thomas
BILLIANI, Janine
ROTH, Meinhart
EDLER, Matthias
LENZ, Sebastian
PIOCK, Richard
(31) 102015015143
(32) 25.11.2015
(33) Germany

(51) C09D 11/101
C09D 11/102
C09D 11/30
(11) EP3580249
(21) EP18703326.1
(47) 26.01.2022
(87) EP2018053069
16.08.2018
(22) 07.02.2018
(54) AQUEOUS COATING COMPOSITION
(73) Covestro (Netherlands) B.V.
(72) TENNEBROEK, Ronald
GRIFFIOEN, Jacobus Willem
CELESTIJN, Jourraine
VAN CASTEREN, Ilse
OVERBEEK, Gerardus Cornelis
(31) 17155252
17155248
17155247
17155251
(32) 08.02.2017
08.02.2017
08.02.2017
08.02.2017
(33) European Patent Office (EPO)
European Patent Office (EPO)
European Patent Office (EPO)
European Patent Office (EPO)

(51) C09D 11/101
C09D 11/102
C09D 11/30
(11) EP3580250
(21) EP18703780.9
(47) 26.01.2022
(87) EP2018053065
16.08.2018
(22) 07.02.2018
(54) AQUEOUS COATING COMPOSITION
(73) Covestro (Netherlands) B.V.
(72) OVERBEEK, Gerardus Cornelis
CELESTIJN, Jourraine
VAN CASTEREN, Ilse
TENNEBROEK, Ronald
(31) 17155252
17155251
17155248
17155247
(32) 08.02.2017
08.02.2017
08.02.2017
08.02.2017
(33) European Patent Office (EPO)
European Patent Office (EPO)
European Patent Office (EPO)
European Patent Office (EPO)

(51) C09D 11/106
C09D 11/322
C09D 11/38
(11) EP3279278
(21) EP17183972.3
(47) 26.01.2022
(22) 31.07.2017
(54) INK, IMAGE FORMING METHOD, AND LIQUID DISCHARGING DEVICE
(73) Ricoh Company, Ltd.
(72) GOTOU, Hiroshi
ISHIKAWA, Masahiko
(31) 2017114844
2016222510
2016151470
(32) 12.06.2017
15.11.2016
01.08.2016
(33) Japan
Japan
Japan

(51) C09D 151/08
B65B 17/00

B65D 25/14
C08F 265/06
C08F 283/02
(11) EP3733798
(21) EP20174384.6
(47) 26.01.2022
(22) 18.10.2005
(54) COATING COMPOSITIONS FOR CANS AND METHODS OF COATING
(73) SWIMC LLC
(72) BARTLEY, George K. III
EVANS, Richard H.
O'BRIEN, Robert M.
RARDON, Daniel E.
SPYNDA, Rachael Ann
(31) 62063904 P
(32) 20.10.2004
(33) United States of America

(51) C09D 171/02
C09D 139/06
(11) EP2952546
(21) EP14745507.5
(47) 26.01.2022
(87) JP2014051628
07.08.2014
(22) 27.01.2014
(54) COMPOSITION FOR FORMING ELECTRICALLY CONDUCTIVE FILM, AND METHOD FOR PRODUCING ELECTRICALLY CONDUCTIVE FILM
(73) FUJIFILM Corporation
(72) KARIYA Toshihiro
SASADA Misato
HAYATA Yuuichi
HONGO Yushi
(31) 2013019432
(32) 04.02.2013
(33) Japan

(51) C09D 179/02
C09K 11/06
C08G 73/02
C08G 61/12
H01L 51/00
H01L 51/50
(11) EP3549970
(21) EP17876396.7
(47) 26.01.2022
(87) JP2017042809
07.06.2018
(22) 29.11.2017
(54) HIGH MOLECULAR WEIGHT COMPOUND CONTAINING SUBSTITUTED TRIARYLAMINE STRUCTURAL UNIT
(73) Hodogaya Chemical Co., Ltd.
(72) KANEKO, Mari
IZUMIDA, Junichi
TOGASHI, Kazunori
KITAHARA, Hideyoshi
(31) 2016232560
(32) 30.11.2016
(33) Japan

(51) C09D 183/04
C08G 77/04
C08G 77/20
C09J 7/40
(11) EP3728498
(21) EP19703813.6
(47) 26.01.2022
(87) US2019013206
18.07.2019
(22) 11.01.2019
(54) ADDITIVE ORGANOPOLYSILOXANE COMPOSITION, CURABLE COMPOSITION, AND FILM
(73) Dow Silicones Corporation
(72) NG, Sze-Sze
CRAY, Steve
BEKEMEIER, Tom
DEHLIN, Lori
MITCHELL, Tim
RICH, Dave
(31) 201862616701 P
(32) 12.01.2018
(33) United States of America

(51) C09H 1/04
C09H 5/00
C14C 3/00
C08L 89/06
C14C 3/08
C14C 3/32
(11) EP3109288
(21) EP15724502.8
(47) 26.01.2022
(87) MX2015000084
17.11.2016
(22) 03.06.2015
(54) METHOD FOR PRODUCING HYDROLYSED COLLAGEN FOR TANNING AND RETANNING LEATHER WITH WET-BLUE LEATHER WASTE, AND PRODUCT OBTAINED USING SAID METHOD
(73) Quimica Stoever S.A. De C.V.
(72) DÍAZ PÉREZ, Ramón
(31) 2015005865
(32) 08.05.2015
(33) Mexico

(51) C09J 7/00
C09J 11/08
(11) EP3339388
(21) EP16206228.5
(47) 26.01.2022
(22) 22.12.2016
(54) PRESSURE-SENSITIVE ADHESIVE COMPOSITIONS FOR MANUFACTURING ELECTRONIC DEVICES
(73) 3M Innovative Properties Company
(72) Stegmaier, Petra
Ma, Jingjing
Bieber, Pierre
Chen, Zhong
McAllister, John W.
Klünker, Eike

(51) C09J 7/00
C09J 163/00
C09J 5/06
(11) EP3394191
(21) EP16819092.4
(47) 26.01.2022
(87) EP2016082266
29.06.2017
(22) 21.12.2016
(54) HEAT-ACTIVATED ADHESIVE TAPE
(73) Lohmann GmbH & Co. KG
(72) KÜHL, Oliver
RINGEL, Anja
KIRPAL, Franziska
KOPF, Patrik
(31) 102015122438
(32) 21.12.2015
(33) Germany

(51) C09J 7/22
C09J 7/38
C09J 133/08
(11) EP3127981
(21) EP15773956.6
(47) 26.01.2022
(87) JP2015060412
08.10.2015
(22) 02.04.2015
(54) ADHESIVE SHEET AND METHOD FOR PRODUCING ADHESIVE SHEET
(73) LINTEC Corporation
(72) UEMURA, Kazue
SAITO, Shigeru
KATO, Kiichiro
KIDO, Masanori
AMINO, Yumiko
KISHI, Masato
NISHIOKA, Shinji
(31) 2014076582
(32) 02.04.2014
(33) Japan

(51) C09J 7/29
G09F 3/10
G09F 3/02
(11) EP2970628
(21) EP14716672.2
(47) 26.01.2022
(87) US2014022465
09.10.2014
(22) 10.03.2014
(54) PRESSURE-WASH RESISTANT LABEL
(73) Brady Worldwide, Inc.
(72) HIGGINS, Jeremy M.
SAVAGIAN, Michael, D.
DAVIS, Alec, J.
(31) 201313798954
(32) 13.03.2013
(33) United States of America

(51) C09J 7/38
(11) EP3728504
(21) EP18839862.2
(47) 26.01.2022
(87) IB2018060125
27.06.2019
(22) 14.12.2018
(54) ADHESIVE ARTICLES INCLUDING A CUSHION LAYER AND A CONTINUOUS SHELL LAYER
(73) 3M Innovative Properties Company
(72) BEHLING, Ross E.
LI, Chaodi
MA, Jingjing
SHOCKEY, Eric D.
SIMONE, Peter M.
WANG, Sharon
CHEN, Zhong
YARUSSO, David J.
(31) 201762608673 P
(32) 21.12.2017
(33) United States of America

(51) C09J 175/08
C09J 175/04
C09J 163/00
C08K 5/17
B32B 37/12
(11) EP3368628
(21) EP15906886.5
(47) 26.01.2022
(87) CN2015092829
04.05.2017
(22) 26.10.2015
(54) POLYURETHANE ADHESIVE COMPOSITION
(73) Dow Global Technologies LLC
Rohm and Haas Company
(72) QU, Zhaohui
BHATTACHARJEE, Debkumar
BAI, Chenyan

(51) C09K 15/02
C09K 15/04
C08G 65/333
C08L 71/00
A61K 47/34
C08K 3/014
C08K 3/16
C08K 5/00
C08K 5/098
C08K 5/13
C08K 5/24
C08L 71/02
C08K 5/08
C08K 5/29
(11) EP3604480
(21) EP18774544.3
(47) 26.01.2022
(87) CN2018077231
04.10.2018
(22) 26.02.2018
(54) COMPOSITION OF POLYETHYLENE GLYCOL MALEIMIDE DERIVATIVE AND POLYMERIZATION INHIBITOR
(73) Jenkem Technology Co., Ltd. (Beijing)
(72) WEI, Zhen
ZHU, Hui
LIN, Meina
ZHAO, Xuan
(31) 201710530958
201710209106
(32) 30.06.2017
31.03.2017
(33) China
China

(51) C10B 19/00
C10B 53/08
(11) EP3749735
(21) EP19717136.6
(47) 26.01.2022
(87) IB2019050936
15.08.2019
(22) 06.02.2019
(54) A METHOD FOR PRODUCING METALLURGICAL COKE FROM NON-COKING COAL
(73) Tata Steel Limited
The University of Nottingham
(72) LESTER, Edward Henry
DODDS, Christopher
CHANDRA, Sanjay
DAS, Bidyut
DASH, Pratik Swarup
PAL, Atanu Ranjan
BINNER, Eleanor
KINGMAN, Samuel
SUDAN, Munish
WILLIAMS, Orla
(31) 201831004462
(32) 06.02.2018
(33) India

(51) C10L 1/02
C10L 1/233
C10L 10/10
(11) EP3414303
(21) EP17703194.5
(47) 26.01.2022
(87) EP2017052924
17.08.2017
(22) 09.02.2017
(54) USES OF ADDITIVES FOR DEMULSIFYING
(73) BP Oil International Limited
(72) FILIP, Sorin, Vasile
(31) 16155213
(32) 11.02.2016
(33) European Patent Office (EPO)

(51) C10L 3/10
B01J 19/18
(11) EP3383981
(21) EP16819606.1
(47) 26.01.2022
(87) FR2016053207
08.06.2017
(22) 05.12.2016
(54) DEVICE AND METHOD FOR DECARBONATING BIOGAS
(73) ENGIE
(72) GUERRINI, Olivier
KARA, Yilmaz
BONCHE, Sandrine
REDDAD, Zacaria
(31) 1561874
(32) 04.12.2015
(33) France

(51) C10L 11/06
A47J 37/07
B65D 5/42
C10L 11/04
B65D 5/50
(11) EP3814459
(21) EP19705789.6
(47) 26.01.2022
(87) GB2019050311
02.01.2020
(22) 06.02.2019
(54) A FIRE STARTER
(73) Hot Box Stoves Limited
(72) NEAL, Oliver Justin
(31) 201812511
201810504
(32) 31.07.2018
27.06.2018
(33) United Kingdom
United Kingdom

(51) C10M 169/04
C10M 105/38
C10M 127/06
C10M 133/12
C10M 145/14
C10N 20/00
C10N 20/02
C10N 20/04
C10N 30/02
C10N 30/08
C10N 40/13
(11) EP3594316
(21) EP18763625.3
(47) 26.01.2022
(87) JP2018008941
13.09.2018
(22) 08.03.2018
(54) TURBINE OIL, AND METHOD FOR USING TURBINE OIL
(73) Idemitsu Kosan Co.,Ltd.
(72) AOKI, Shinji
(31) 2017044352
(32) 08.03.2017
(33) Japan

(51) C11B 3/00
C11B 1/04
C11B 1/10
(11) EP3732275
(21) EP18842424.6
(47) 26.01.2022
(87) FI2018050984
04.07.2019
(22) 28.12.2018
(54) PURIFICATION OF BIOMASS-BASED LIPID MATERIAL
(73) Neste Oyj
(72) HALTTUNEN, Jarmo
PASANEN, Jukka-Pekka
SIPPOLA, Väinö
MALM, Annika
(31) 20176184
(32) 29.12.2017
(33) Finland

(51) C11D 3/30
C11D 3/33
C11D 3/50
C11D 1/40
(11) EP3790952
(21) EP19723087.3
(47) 26.01.2022
(87) EP2019061805
21.11.2019
(22) 08.05.2019
(54) COMPOSITION
(73) Unilever IP Holdings B.V.
(72) METCALFE, Kenneth
JAMIESON, Andrew, Stephen
BELL, Nathan, Robert
CUMMINS, Alison
WEBB, Nicholas
(31) 18172491
(32) 15.05.2018
(33) European Patent Office (EPO)

(51) C11D 3/48
C11D 3/39
C11D 1/12
C11D 1/04
C11D 3/20
(11) EP2807244
(21) EP12703738.0
(47) 26.01.2022
(87) EP2012051381

01.08.2013
(22) 27.01.2012
(54) LOW TEMPERATURE SULFOPEROXYCARBOXYLIC ACID CONTAINING CLEANING COMPOSITION
(73) Ecolab USA Inc.
(72) MCSHERRY, Dave
TIEKEMEIER, Julia
LI, Junzhong
VOGT, Petra

(51) C12M 1/00
C12N 1/00
C12M 1/12
(11) EP3489342
(21) EP17834361.2
(47) 26.01.2022
(87) JP2017026939
01.02.2018
(22) 25.07.2017
(54) SIPHON TYPE CULTIVATION METHOD
(73) UBE Industries, Ltd.
(72) HAGIHARA, Masahiko
FUSE, Shinsaku
(31) 2016145809
(32) 25.07.2016
(33) Japan

(51) C12M 1/04
A01N 1/02
C12M 1/22
C12M 3/00
C12M 1/12
(11) EP3480290
(21) EP16907306.1
(47) 26.01.2022
(87) JP2016069487
04.01.2018
(22) 30.06.2016
(54) SET FOR TRANSPORTING CULTURE CONTAINER AND UNIT FOR TRANSPORTING CELL OR BIOLOGICAL TISSUE
(73) Sanplatec Corporation Ltd.
(72) NAKAJIMA Hidenori
KUWABARA Junichi
KATOU Satoshi
KOBAYASHI Yoshifumi

(51) C12M 1/12
(11) EP3600668
(21) EP18732169.0
(47) 26.01.2022
(87) US2018023411
27.09.2018
(22) 20.03.2018
(54) MODULAR ORGAN MICROPHYSIOLOGICAL SYSTEM WITH MICROBIOME
(73) Massachusetts Institute of Technology
(72) BHUSHAN, Brij, Mohan
EDINGTON, Collin
KASSIS, Timothy
ROHATGI, Gaurav
FREAKE, Duncan
SOENKSEN, Luis
GRIFFITH, Linda, G.
TRUMPER, David, L.
(31) 201762556595 P
201762474337 P
(32) 11.09.2017
21.03.2017
(33) United States of America
United States of America

(51) C12M 1/12
C12M 1/00
C12M 1/34
C12M 1/32
(11) EP3425038
(21) EP18179214.4
(47) 26.01.2022
(22) 22.06.2018
(54) SPECIMEN CONTAINER
(73) SCREEN Holdings Co., Ltd.
(72) Ikefuji, Kunio
(31) 2018086223
2017183180
2017131651
(32) 27.04.2018
25.09.2017
05.07.2017
(33) Japan
Japan
Japan

(51) C12M 1/18
C12M 1/24
C12Q 1/68
C12N 1/02
C12N 5/078
C12N 9/12
C12N 9/22
C08L 27/12
C08F 255/00
(11) EP3237595
(21) EP15874282.5
(47) 26.01.2022
(87) US2015067281
30.06.2016
(22) 22.12.2015
(54) CAPTURE SYSTEM OF CELLS AND METHODS
(73) Saint-Gobain Performance Plastics Corporation
(72) BOGHOSIAN, Natasha Anna
CIVEL, Edouard
MIRIPOL, Jeffrey Ellis
CLARK, Sarah Louise
GARCES, Camila A.
CULLIS, Herbert Myers
(31) 201514976043
201462095140 P
(32) 21.12.2015
22.12.2014
(33) United States of America
United States of America

(51) C12N 1/06
C08B 37/08
C07K 1/14
C11B 1/06
C11B 1/00
A23J 1/00
(11) EP3700939
(21) EP18799435.5
(47) 26.01.2022
(87) EP2018025273
02.05.2019
(22) 25.10.2018
(54) A METHOD FOR SEPARATING INSECT LARVAE IN A PULP AND A LIQUID FRACTION
(73) VITO NV
Circular Organics N.V.
(72) VAN DEN BOSCH, Bert
JACOBS, Johan
DEPRAETERE Stefaan, Jacobs Johan
D'HONDT, Els
UYTTEBROEK, Maarten
(31) 201700150
(32) 26.10.2017
(33) Belgium

(51) C12N 1/22
C12N 5/00
(11) EP3397749
(21) EP16831697.4
(47) 26.01.2022
(87) US2016069564
06.07.2017
(22) 30.12.2016
(54) LAYERED CELL CULTURE PARTICLES AND METHODS OF MAKING THEREOF
(73) Life Technologies Corporation
(72) FIKE, Richard
GULDE, Paul
REYNOLDS, Mary
PHELPS, Mwita
HASSETT, Richard
(31) 201562272828 P
(32) 30.12.2015
(33) United States of America

(51) C12N 5/00
(11) EP3778868
(21) EP19192089.1
(47) 26.01.2022
(22) 16.08.2019
(54) CELL CULTURE MEDIUM FOR CULTIVATING CELLS, METHOD FOR CULTURING CELLS AND METHOD FOR EXPRESSING AT LEAST ONE RECOMBINANT PROTEIN IN A CELL CULTURE
(73) UGA Biopharma GmbH
(72) Kober, Lars
Herrmann, Sarah

(51) C12N 7/00
C12N 15/861
C07K 14/075
C12N 15/86
C07K 14/005
(11) EP2764013
(21) EP12775112.1
(47) 26.01.2022
(87) US2012058978
11.04.2013
(22) 05.10.2012
(54) ADENOVIRAL VECTORS AND METHODS OF USE
(73) GenVec, Inc.
(72) MCVEY, Duncan
BROUGH, Douglas E.
GALL, Jason G.D.
(31) 201161543652 P
(32) 05.10.2011
(33) United States of America

(51) C12N 9/10
C12P 21/00

(11) EP3240895
(21) EP15822948.4
(47) 26.01.2022
(87) EP2015081229
07.07.2016
(22) 24.12.2015
(54) COMPOSITIONS AND METHODS FOR PROTEIN GLYCOSYLATION
(73) GlaxoSmithKline Biologicals S.A.
(72) KOWARIK, Michael Thomas
SCHWEDE, Torsten Franz
HAAS, Jurgen
IHSSEN, Julian
THÖNY-MEYER, Linda Christiane
(31) 201462098071 P
201462097975 P
(32) 30.12.2014
30.12.2014
(33) United States of America
United States of America

(51) C12N 15/113
A61K 31/7125
(11) EP3265564
(21) EP16759471.2
(47) 26.01.2022
(87) US2016020610
09.09.2016
(22) 03.03.2016
(54) METHODS FOR MODULATING MECP2 EXPRESSION
(73) Ionis Pharmaceuticals, Inc.
Baylor College of Medicine
(72) FREIER, Susan, M.
SZTAINBERG, Ezequiel
ZOGHBI, Huda, Y.
(31) 201562127693 P
(32) 03.03.2015
(33) United States of America

(51) C12N 15/53
A01H 5/00
C11B 9/00
C12N 1/19
C12N 1/21
C12N 5/10
C12N 9/02
C12N 9/96
C12P 7/02
(11) EP2914729
(21) EP13850891.6
(47) 26.01.2022
(87) CA2013050828
08.05.2014
(22) 31.10.2013
(54) CYTOCHROME P450 AND CYTOCHROME P450 REDUCTASE POLYPEPTIDES, ENCODING NUCLEIC ACID MOLECULES AND USES THEREOF
(73) The University of British Columbia
The University Of Western Australia
(72) MONIODIS, Jessie
BOHLMANN, Carl Joerg
DIAZ CHAVEZ, Maria Luisa
(31) 201361956086 P
201261796129 P
(32) 31.05.2013
01.11.2012
(33) United States of America
United States of America

(51) C12N 15/62
C12N 15/13
C12N 15/63
C07K 16/46
C07K 14/725
A61K 48/00
A61P 35/00
(11) EP3083964
(21) EP14871351.4
(47) 26.01.2022
(87) CN2014094393
25.06.2015
(22) 19.12.2014
(54) HUMAN MESOTHELIN CHIMERIC ANTIGEN RECEPTORS AND USES THEREOF
(73) Novartis AG
The Trustees of the University of Pennsylvania
(72) ENGELS, Boris
BEATTY, Gregory
IDAMAKANTI, Neeraja
WU, Qilong
LOEW, Andreas
SONG, Huijuan
JUNE, Carl H.
(31) PCT/CN2014/090509
PCT/CN2014/082610
PCT/CN2013/089979
(32) 06.11.2014
21.07.2014
19.12.2013
(33) World Intellectual Property Office (WIPO)
World Intellectual Property Office (WIPO)
World Intellectual Property Office (WIPO)

(51) C12N 15/67
A61K 39/00
C12N 15/63
(11) EP3527662
(21) EP19154524.3
(47) 26.01.2022
(22) 15.02.2013
(54) NUCLEIC ACID COMPRISING OR CODING FOR A HISTONE STEM-LOOP AND A POLY(A) SEQUENCE OR A POLYADENYLATION SIGNAL FOR INCREASING THE EXPRESSION OF AN ENCODED TUMOUR ANTIGEN
(73) CureVac AG
(72) THEß, Andreas
PROBST, Jochen
SCHLAKE, Thomas
(31) PCT/EP2012/000674
(32) 15.02.2012
(33) World Intellectual Property Office (WIPO)

(51) C12N 15/85
C12N 15/87
C12N 15/81
C12N 15/82
C12N 15/90
C12N 15/74
(11) EP3443106
(21) EP17783259.9
(47) 26.01.2022
(87) US2017027678
19.10.2017
(22) 14.04.2017
(54) PHAGE-MEDIATED MANIPULATION OF WOLBACHIA
(73) Vanderbilt University
(72) BORDENSTEIN, Sarah R.
BORDENSTEIN, Seth R.
(31) 201662323099 P
(32) 15.04.2016
(33) United States of America

(51) C12N 15/86
(11) EP3387138
(21) EP16884241.7
(47) 26.01.2022
(87) US2016065970
21.09.2017
(22) 09.12.2016
(54) SCALABLE PURIFICATION METHOD FOR AAV9
(73) The Trustees Of The University Of Pennsylvania
(72) LOCK, Martin
ALVIRA, Mauricio
(31) 201662322071 P
201562266357 P
(32) 13.04.2016
11.12.2015
(33) United States of America
United States of America

(51) C12N 15/90
A01K 67/027
C12N 15/62
C12N 15/85
(11) EP3476942
(21) EP17198800.9
(47) 26.01.2022
(22) 27.10.2017
(54) LONG GERMLINE DH GENES AND LONG HCDR3 ANTIBODIES
(73) Trianni, Inc.
(72) Burrows, Peter
Esposito, Gloria
Mueller, Werner
Duong, Bao
Wabl, Matthias

(51) C12P 7/06
C12P 7/16
C12P 7/18
C12P 7/46
C12P 7/56
C08L 97/02
C12N 1/00
C12N 9/00
C12P 19/02
C12P 19/14
C12P 7/10
C12P 7/14
(11) EP3307897
(21) EP16808246.9
(47) 26.01.2022
(87) US2016036571
15.12.2016
(22) 09.06.2016
(54) HYDROTHERMAL-MECHANICAL TREATMENT OF LIGNOCELLULOSIC BIOMASS FOR PRODUCTION OF FERMENTATION PRODUCTS
(73) Valmet AB
GranBio Intellectual Property Holdings, LLC

(72) RETSINA, Theodora
BOUSQUET, Jean-Pierre
(31) 201562173217 P
(32) 09.06.2015
(33) United States of America

(51) C12P 7/42
C12N 9/20
C12N 9/88
C12P 7/64
(11) EP3274463
(21) EP16711679.7
(47) 26.01.2022
(87) EP2016056656
29.09.2016
(22) 24.03.2016
(54) PRODUCTION OF FATTY ACID ESTOLIDES
(73) Technische Universiteit Delft
Stichting Wageningen Research
(72) TODEA, Anamaria
OTTEN, Ludwina Gerharda
BOERIU, Carmen Gabriela
ARENDS, Isabella Wilhelmina Christina Everdina
(31) 201505178
201562138541 P
(32) 26.03.2015
26.03.2015
(33) United Kingdom
United States of America

(51) C12Q 1/22
C12Q 1/02
C12Q 1/04
C12Q 1/25
C12Q 1/42
C12Q 1/48
C12Q 1/68
(11) EP3617320
(21) EP19187658.0
(47) 26.01.2022
(22) 15.04.2011
(54) METHODS FOR MEASURING ENZYME ACTIVITY USEFUL IN DETERMINING CELL VIABILITY IN NON-PURIFIED SAMPLES
(73) Momentum Bioscience Limited
(72) O'HARA, Shawn Mark
ZWEITZIG, Daniel R
(31) 325413 P
324949 P
32493910 P
(32) 19.04.2010
16.04.2010
16.04.2010
(33) United States of America
United States of America
United States of America

(51) C12Q 1/68
A01H 1/04
A01H 5/10
(11) EP3436599
(21) EP17714428.4
(47) 26.01.2022
(87) EP2017057438
05.10.2017
(22) 29.03.2017
(54) NON-DESTRUCTIVE SEED GENOTYPING
(73) BASF SE
(72) VAN DER MEEREN, Kristof
KOCH, Rainhard
CLAUSEN, Martin
RAE, Stephen
JANSEN, Nina
ELLINGER, Philipp
(31) 16163397
(32) 31.03.2016
(33) European Patent Office (EPO)

(51) C12Q 1/68
C12Q 1/6883
(11) EP3551762
(21) EP17825149.2
(47) 26.01.2022
(87) EP2017082157
14.06.2018
(22) 11.12.2017
(54) METHOD AND KIT FOR PREDICTING THE RISK OF DEEP VEIN THROMBOSIS AND PULMONARY EMBOLISM
(73) GENE GENDER S.R.L.
(72) MICHAUD SCHUTZ, Joëlle
TANACKOVIC ABBAS-TERKI, Goranka
PACHE, Thierry Daniel
(31) 17163894
16203285
(32) 30.03.2017
09.12.2016
(33) European Patent Office (EPO)
European Patent Office (EPO)

(51) C12Q 1/6804
(11) EP3305915
(21) EP17187196.5
(47) 26.01.2022
(22) 31.07.2007
(54) DETECTION OF ANALYTES AND NUCLEIC ACIDS
(73) Applied Biosystems, LLC
(72) Shannon, Mark E.
Ruff, David W.
(31) 835118 P
(32) 01.08.2006
(33) United States of America

(51) C12Q 1/6816
C12Q 1/682
(11) EP3481843
(21) EP17824751.6
(47) 26.01.2022
(87) US2017040485
11.01.2018
(22) 30.06.2017
(54) FRACTIONAL INITIATOR HYBRIDIZATION CHAIN REACTION
(73) California Institute of Technology
(72) CHOI, Harry, M.T.
PIERCE, Niles, A.
(31) 201662358462 P
(32) 05.07.2016
(33) United States of America

(51) C12Q 1/6848
(11) EP3735474
(21) EP19700540.8
(47) 26.01.2022
(87) GB2019050005
11.07.2019
(22) 02.01.2019
(54) IMPROVEMENTS IN OR RELATING TO AMPLIFICATION OF NUCLEIC ACIDS
(73) LUMIRADX UK LTD
(72) SHEN, Daiwei
PEREZ, Victor
KRAYNACK, Bryan
PROVINS, Jarrod
(31) 201800109
(32) 04.01.2018
(33) United Kingdom

(51) C12Q 1/6869
(11) EP3387152
(21) EP16822832.8
(47) 26.01.2022
(87) US2016065605
15.06.2017
(22) 08.12.2016
(54) IMPROVED ADAPTERS, METHODS, AND COMPOSITIONS FOR DUPLEX SEQUENCING
(73) Twinstrand Biosciences, Inc.
(72) SALK, Jesse J.
LOEB, Lawrence A.
SCHMITT, Michael W.
(31) 201662281917 P
201562264822 P
(32) 22.01.2016
08.12.2015
(33) United States of America
United States of America

(51) C12Q 1/6883
C12Q 1/6876
(11) EP3551771
(21) EP17835594.7
(47) 26.01.2022
(87) EP2017082164
14.06.2018
(22) 11.12.2017
(54) METHOD FOR PREDICTING THE RISK OF DEEP VEIN THROMBOSIS AND PULMONARY EMBOLISM ASSOCIATED WITH HORMONAL PREPARATIONS AND HORMONE LEVELS
(73) GENE GENDER S.R.L.
(72) TANACKOVIC ABBAS-TERKI, Goranka
PACHE, Thierry Daniel
MICHAUD SCHUTZ, Joëlle
(31) 17163897
16203286
(32) 30.03.2017
09.12.2016
(33) European Patent Office (EPO)
European Patent Office (EPO)

(51) C12Q 1/689
(11) EP3450573
(21) EP18196402.4
(47) 26.01.2022
(22) 23.06.2010
(54) COMPOSITIONS AND METHODS FOR DETECTING NUCLEIC ACID FROM MOLLICUTES
(73) Gen-Probe Incorporated
(72) HOGAN, James D.
BECKER, Michael M.
LIVEZEY, Kristin W.
KAPLAN, Shannon K.
(31) 21967409 P

(32) 23.06.2009
(33) United States of America

(51) C12Q 1/6897
C12Q 1/14
C12Q 1/18
C12N 7/00
C12N 15/74
(11) EP3728646
(21) EP18833873.5
(47) 26.01.2022
(87) EP2018086285
27.06.2019
(22) 20.12.2018
(54) NON-REPLICATIVE TRANSDUCTION PARTICLES AND TRANSDUCTION PARTICLE-BASED REPORTER SYSTEMS
(73) F. Hoffmann-La Roche AG
(72) FISS, Ellen H.
DUGENNY, Slav
REHFUSS, Marc
(31) 201762608449 P
(32) 20.12.2017
(33) United States of America

(51) C14B 1/00
C14C 3/10
C14C 3/22
C14C 3/28
C14C 3/16
C14C 3/08
D06P 3/32
C14C 3/30
(11) EP3201365
(21) EP15782019.2
(47) 26.01.2022
(87) GB2015052879
07.04.2016
(22) 01.10.2015
(54) METHOD FOR TREATING AN ANIMAL SUBSTRATE
(73) Xeros Limited
(72) FEYISA, Addis, Duki
STEELE, John, Edward
(31) 201417487
(32) 03.10.2014
(33) United Kingdom

(51) C14C 15/00
C02F 1/38
C02F 103/24
(11) EP3443128
(21) EP17718398.5
(47) 26.01.2022
(87) GB2017051049
19.10.2017
(22) 13.04.2017
(54) METHOD OF TREATMENT USING A SOLID PARTICULATE MATERIAL AND APPARATUS THEREFOR
(73) Xeros Limited
(72) TEDDS, Siân Catherine
SCOTT, Iain Alexander
WALLACE, Thomas John
(31) 201606402
(32) 13.04.2016
(33) United Kingdom

(51) C21B 5/00
C21B 5/02
(11) EP3638817
(21) EP18740647.5
(47) 26.01.2022
(87) IB2018054413
20.12.2018
(22) 15.06.2018
(54) OPERATING METHOD OF AN IRON MAKING INSTALLATION
(73) Arcelormittal
(72) GEEROMS, Joris
VAN DE CASTEELE, Stefaan
SPELIER, Kurt
(31) PCT/IB2017/000739
(32) 16.06.2017
(33) World Intellectual Property Office (WIPO)

(51) C21D 7/04
B23P 9/02
B23P 9/04
C21D 7/08
F01D 5/28
(11) EP3321381
(21) EP17195894.5
(47) 26.01.2022
(22) 11.10.2017
(54) TREATED TAPERED ARTICLE AND METHOD OF TREATMENT FOR A TAPERED ARTICLE
(73) Rolls-Royce plc
(72) Gopinath, Abhay
Wong, Chow Cher
Maiti, Rajarshi
Lim, Andre
Castagne, Sylvie
(31) 201619092
(32) 11.11.2016
(33) United Kingdom

(51) C21D 9/04
C21D 1/667
C22C 38/04
C22C 38/14
(11) EP2920328
(21) EP13855497.7
(47) 26.01.2022
(87) US2013070441
22.05.2014
(22) 15.11.2013
(54) METHOD OF MAKING HIGH STRENGTH STEEL CRANE RAIL
(73) ArcelorMittal
(72) BRAMFITT, Bruce
FLETCHER, Frederick
NELSON, John
MCCULLOUGH, Jason
MUSCARELLA, Michael
(31) 201261726945 P
(32) 15.11.2012
(33) United States of America

(51) C22B 3/04
C22B 3/06
C22B 15/00
C22B 60/02
C22B 11/00
C25C 1/12
(11) EP3507387
(21) EP17849935.6
(47) 26.01.2022
(87) AU2017051021
22.03.2018
(22) 19.09.2017
(54) INTEGRATED HYDROMETALLURGICAL AND PYROMETALLURGICAL METHOD FOR PROCESSING ORE
(73) BHP Olympic Dam Corporation Pty Ltd
(72) RORKE, Gary Vernon
ENGLAND, John Kenneth
BOJCEVSKI, David
(31) 2016903763
(32) 19.09.2016
(33) Australia

(51) C22B 3/10
C22B 15/00
(11) EP3728661
(21) EP18842736.3
(47) 26.01.2022
(87) IB2018060418
27.06.2019
(22) 20.12.2018
(54) ACID BALANCE IN A CHLORIDE HEAP LEACH
(73) Bhp Chile Inc.
(72) CHIBWANA, Clement Chilowa
RORKE, Gary Vernon
STRAUSS, Johannes Mattheus
BARIOS ORMEÑO, Damaso
(31) 201800345
201708731
(32) 18.01.2018
21.12.2017
(33) South Africa
South Africa

(51) C22B 7/00
C22B 7/02
C22B 3/00
C22B 19/00
(11) EP3728664
(21) EP18834038.4
(47) 26.01.2022
(87) IB2018060013
27.06.2019
(22) 13.12.2018
(54) METHOD FOR THE TREATMENT OF IRON-CONTAINING SLUDGE
(73) ArcelorMittal
(72) KERZERHO, Gaëlle
BOUCARD, Hélène
IOSIF, Ana-Maria
(31) PCT/IB2017/058327
(32) 22.12.2017
(33) World Intellectual Property Office (WIPO)

(51) C22C 1/05
C22C 29/08
C22C 29/04
B22F 3/10
B22F 1/02
C22C 29/06
B22F 5/00
(11) EP3587609
(21) EP19769977.0
(47) 26.01.2022
(87) JP2019002981
31.10.2019
(22) 29.01.2019
(54) CEMENTED CARBIDE AND PRODUCTION METHOD FOR CEMENTED CARBIDE

(73) SUMITOMO ELECTRIC INDUSTRIES, LTD.
(72) GOTOU, Hiroaki
FUKAE, Kosuke
TSUDA, Keiichi
MICHIUCHI, Masato
(31) 2018085641
(32) 26.04.2018
(33) Japan

(51) C22C 9/00
H01B 1/02
H01B 5/02
C22F 1/08
C22F 1/00
H02G 5/00
(11) EP3348658
(21) EP16844420.6
(47) 26.01.2022
(87) JP2016076387
16.03.2017
(22) 08.09.2016
(54) COPPER ALLOY FOR ELECTRONIC/ELECTRICAL DEVICE, PLASTICALLY-WORKED COPPER ALLOY MATERIAL FOR ELECTRONIC/ELECTRICAL DEVICE, COMPONENT FOR ELECTRONIC/ELECTRICAL DEVICE, TERMINAL AND BUSBAR
(73) Mitsubishi Materials Corporation
(72) MAKI, Kazunari
MATSUNAGA, Hirotaka
(31) 2015177743
(32) 09.09.2015
(33) Japan

(51) C22C 21/08
C22F 1/05
(11) EP3555332
(21) EP17830056.2
(47) 26.01.2022
(87) US2017065715
21.06.2018
(22) 12.12.2017
(54) HIGH STRENGTH AND HIGHLY FORMABLE ALUMINUM ALLOYS RESISTANT TO NATURAL AGE HARDENING AND METHODS OF MAKING THE SAME
(73) Novelis Inc.
(72) DESPOIS, Aude
FLOREY, Guillaume
LEYVRAZ, David
BASSI, Corrado
(31) 201762477677 P
201662435382 P
(32) 28.03.2017
16.12.2016
(33) United States of America
United States of America

(51) C22C 38/00
B21D 51/16
C21D 8/10
C22C 38/58
F16L 9/02
C21D 9/08
C22C 38/02
C22C 38/04
C22C 38/06
C22C 38/08
C21D 1/25
C21D 6/00
B21D 7/16
B21D 35/00
F16L 43/00
C21D 1/34
C21D 1/42
C22C 38/18
C22C 38/26
C22C 38/28
C22C 38/40
C22C 38/48
C22C 38/50
C22C 38/20
C22C 38/22
C22C 38/24
(11) EP3636787
(21) EP18805690.7
(47) 26.01.2022
(87) JP2018019414
29.11.2018
(22) 18.05.2018
(54) BENT STEEL PIPE AND METHOD FOR PRODUCING SAME
(73) Nippon Steel Corporation
(72) KAMITANI, Hiroki
SENDAI, Yusuke
OE, Taro
(31) 2017100993
(32) 22.05.2017
(33) Japan

(51) C22C 38/00
C21D 8/02
C22C 38/54
C22C 38/02
C22C 38/04
C22C 38/06
C22C 38/08
C22C 38/12
C22C 38/14
C22C 38/16
C22C 38/42
C22C 38/44
C22C 38/48
C22C 38/50
(11) EP3702484
(21) EP17929543.1
(47) 26.01.2022
(87) JP2017038632
02.05.2019
(22) 26.10.2017
(54) NICKEL-CONTAINING STEEL FOR LOW TEMPERATURE
(73) NIPPON STEEL CORPORATION
(72) KAGAYA Takayuki
OMIYA Shinichi
NAMEGAWA Tetsuya
HOSHINO Manabu

(51) C22C 38/02
C21D 8/04
C23G 1/00
C23G 1/08
C22C 38/04
C21D 9/46
C22C 38/06
(11) EP3115482
(21) EP15759246.0
(47) 26.01.2022
(87) JP2015000777
11.09.2015
(22) 19.02.2015
(54) COLD-ROLLED STEEL SHEET, MANUFACTURING METHOD THEREFOR, AND CAR PART
(73) JFE Steel Corporation
(72) TERASAKI, Yuta
TAIRA, Shoichiro
KONDO, Hirotsugu
MASUOKA, Hiroyuki
(31) 2014041089
(32) 04.03.2014
(33) Japan

(51) C22C 38/60
C22C 38/00
C23C 2/06
C21D 9/46
C21D 1/19
C21D 1/20
C21D 6/00
C21D 8/02
C22C 38/02
C22C 38/04
C22C 38/12
C23C 2/40
C22C 38/16
C22C 38/14
C22C 38/18
C23C 2/02
C21D 1/25
C23C 2/26
C23C 2/28
(11) EP3604582
(21) EP17903051.5
(47) 26.01.2022
(87) JP2017013736
04.10.2018
(22) 31.03.2017
(54) COLD-ROLLED STEEL SHEET AND HOT-DIP GALVANIZED COLD-ROLLED STEEL SHEET
(73) Nippon Steel Corporation
(72) YOKOYAMA, Takafumi
SHIOKAWA, Kazuki
NAKAHIRA, Yuichi
YAMAGUCHI, Yuji
OKAMOTO, Riki
KAWATA, Hiroyuki

(51) C23C 14/00
C23C 14/02
C23C 14/06
C23C 14/32
F16J 9/26
C23C 28/00
C23C 28/04
C23C 30/00
(11) EP3741881
(21) EP20176159.0
(47) 26.01.2022
(22) 22.05.2020
(54) FRICTION REDUCED AND WEAR RESISTANT COATING, PREPARATION METHOD THEREOF AND PISTON RING
(73) ASIMCO Shuanghuan Piston Ring (Yizheng) Co., Ltd.
(72) LI, Kaishun

LIU, Qianxi
ZHANG, Bo
(31) 201910425960
(32) 21.05.2019
(33) China

(51) C23C 14/06
C23C 14/18
F16J 9/26
C23C 14/04
C23C 28/04
C23C 28/00
C23C 14/58
(11) EP3390683
(21) EP17708225.2
(47) 26.01.2022
(87) EP2017054747
26.10.2017
(22) 01.03.2017
(54) COATED PISTON RING HAVING A PROTECTIVE LAYER
(73) Federal-Mogul Burscheid GmbH
(72) ESSER, Peter-Klaus
(31) 102016108088
102016107296
(32) 02.05.2016
20.04.2016
(33) Germany
Germany

(51) C23C 14/06
C23C 14/32
(11) EP3036353
(21) EP14837670.0
(47) 26.01.2022
(87) CA2014000627
26.02.2015
(22) 18.08.2014
(54) COATING CONTAINING MACROPARTICLES AND CATHODIC ARC PROCESS OF MAKING THE COATING
(73) MDS Coating Technologies Corp.
(72) TZANEV, Stefan
GUETRE, Steve
DURHAM, Simon
MENDEZ, Manuel
(31) 201361867751 P
(32) 20.08.2013
(33) United States of America

(51) C23C 14/50
C23C 14/04
C23C 14/56
(11) EP3262209
(21) EP16705757.9
(47) 26.01.2022
(87) EP2016053313
01.09.2016
(22) 17.02.2016
(54) METHOD FOR COATING A PISTON
(73) Oerlikon Surface Solutions AG, Pfäffikon
(72) ROPPEL, Ruedi
RAMM, Juergen
STELLMACHER, Arvid
WIDRIG, Beno
(31) 201562119985 P
(32) 24.02.2015
(33) United States of America

(51) C23C 18/16
C23C 18/34
C09D 5/00
C09D 5/44
C25D 5/40
C25D 5/48
C25D 13/06
C25D 5/12
F16C 29/04
F16C 31/04
F16C 29/00
B05D 1/00
B05D 1/18
B05D 3/00
B05D 3/12
C23C 18/36
C25D 13/16
C25D 13/22
F16C 29/06
(11) EP3720987
(21) EP18830305.1
(47) 26.01.2022
(87) IB2018059669
13.06.2019
(22) 05.12.2018
(54) PROCESS FOR COATING A GUIDE
(73) Graf Synergy S.r.L.
(72) VACCARI, Andrea
CASARINI, Nicola
(31) 201700141347
(32) 06.12.2017
(33) Italy

(51) C23C 24/04
H02K 15/00
(11) EP3772546
(21) EP19189951.7
(47) 26.01.2022
(22) 05.08.2019
(54) FABRICATION OF A STRUCTURE BY MEANS OF A COLD GAS SPRAYING METHOD
(73) Siemens Aktiengesellschaft
(72) Arndt, Axel
Rauch, Hartmut
Jensen, Jens Dahl
Brach, Karsten
Krüger, Ursus
Stier, Oliver
Pyritz, Uwe
Schneck, Jakob

(51) C23F 1/00
C23F 1/12
C23C 14/18
C23C 14/58
H01L 31/0224
H01L 31/18
H01L 33/42
(11) EP3631044
(21) EP18729590.2
(47) 26.01.2022
(87) EP2018063308
29.11.2018
(22) 22.05.2018
(54) METHOD FOR PREPARING A CONDUCTIVE, TRANSPARENT AND FLEXIBLE MEMBRANE
(73) Universite de Nantes
Centre National de la Recherche Scientifique
(72) CHAUVIN, Adrien
TESSIER, Pierre-Yves
EL MEL, Abdel-Aziz
(31) 1754647
(32) 24.05.2017
(33) France

(51) C23F 11/02
C09K 5/10
(11) EP2638185
(21) EP11840040.7
(47) 26.01.2022
(87) IB2011054876
18.05.2012
(22) 03.11.2011
(54) NOVEL VAPOR SPACE ANTICORROSIVE COMPOSITION
(73) BASF SE
(72) Dietl, Harald
Nitzschke, Uwe
(31) 10190743
(32) 10.11.2010
(33) European Patent Office (EPO)

(51) C23F 13/18
C23F 13/06
E02B 17/02
B63B 21/50
E02B 17/00
(11) EP3683336
(21) EP18866085.6
(47) 26.01.2022
(87) CN2018075192
18.04.2019
(22) 04.02.2018
(54) MARINE TENSILE ANODE SYSTEM AND INSTALLATION METHOD THEREOF
(73) Dalian Kingmile Anticorrosion Technology Co., Ltd.
(72) LIU, Lei
SONG, Shide
(31) 201710951168
(32) 13.10.2017
(33) China

(51) C25B 3/07
C25B 3/09
C25B 3/11
C25B 3/27
C25B 9/15
C25B 9/17
C25B 9/75
C25B 11/036
C02F 1/467
(11) EP3469117
(21) EP17730244.5
(47) 26.01.2022
(87) GB2017051660
14.12.2017
(22) 08.06.2017
(54) ELECTROLYTIC PRODUCTION OF ORGANIC CHLORAMINE SOLUTIONS
(73) De Nora Holdings US, Inc.
(72) BOAL, Andrew Kiskadden
(31) 201762481820 P
201662348100 P
(32) 05.04.2017
09.06.2016
(33) United States of America
United States of America

(51) C25D 3/56

C25D 5/02
C25D 5/50
C25D 1/00
C25D 5/48
C25D 7/12
C25D 7/00
H01H 1/00
H01H 59/00
H05K 13/04
(11) EP2468928
(21) EP11193469.1
(47) 26.01.2022
(22) 14.12.2011
(54) Manufacturing method
(73) General Electric Company
(72) Keimel, Christopher
Aimi, Marco
Detor, Andrew Joseph
Corderman, Reed
(31) 975090
(32) 21.12.2010
(33) United States of America

(51) C25D 11/26
D01D 4/02
(11) EP3536827
(21) EP18761041.5
(47) 26.01.2022
(87) CN2018077938
07.09.2018
(22) 02.03.2018
(54) SURFACE PROCESSING METHOD FOR TANTALUM SPINNING HEAD
(73) Beijing Huayu Chuangxin TA-NB Science & Technology Co., Ltd.
Beijing Huayu Chuangxin Science & Trade Co., Ltd.
(72) LIU, Yuzhong
(31) 201710587999
201710124797
(32) 19.07.2017
03.03.2017
(33) China
China

(51) C30B 19/02
C30B 19/04
C30B 19/06
C30B 19/12
C30B 29/28
G02F 1/09
G02F 1/00
C01F 17/34
(11) EP3553212
(21) EP19167995.0
(47) 26.01.2022
(22) 08.04.2019
(54) METHOD OF MANUFACTURING A GARNET TYPE CRYSTAL
(73) Shin-Etsu Chemical Co., Ltd.
(72) Watanabe, Toshiaki
(31) 2018074724
(32) 09.04.2018
(33) Japan

(51) D01F 1/04
D01F 1/10
D01F 6/70
D01D 5/00
(11) EP3359713
(21) EP16781175.1
(47) 26.01.2022
(87) GB2016053112
13.04.2017
(22) 06.10.2016
(54) COMPOSITE FIBRE
(73) The University of Huddersfield
(72) SMITH, Timothy
GOSWAMI, Parikshit
RUSSELL, Stephen
HEBDEN, Andrew
(31) 201517791
(32) 08.10.2015
(33) United Kingdom

(51) D01F 6/46
D01D 1/02
D01D 5/06
D01D 5/12
A41D 19/015
D02G 3/44
D04B 1/28
D03D 1/00
D03D 15/00
(11) EP3792379
(21) EP19850783.2
(47) 26.01.2022
(87) CN2019105436
21.01.2021
(22) 11.09.2019
(54) POLYETHYLENE FIBER HAVING ULTRAHIGH ANTI-CUTTING PERFORMANCE AND ULTRAHIGH MOLECULAR WEIGHT AND PREPARATION METHOD THEREFOR
(73) Xingyu Safety Protection Technology Co., Ltd.
(72) ZHOU, Hongbo
ZHAO, Yong
ZHOU, Xingyu
ZHOU, Haitao
(31) 201910651423
(32) 18.07.2019
(33) China

(51) D01F 6/74
C08L 79/04
D01F 9/00
D01F 9/24
D01F 6/78
D01F 6/94
(11) EP3228736
(21) EP15865501.9
(47) 26.01.2022
(87) JP2015083342
09.06.2016
(22) 27.11.2015
(54) CARBON-FIBER PRECURSOR FIBER AND METHOD FOR PRODUCING CARBON FIBER
(73) National Institute of Advanced Industrial Science and Technology
(72) HATORI, Hiroaki
TOMITA, Naoko
KODAMA, Masaya
(31) 2014244732
(32) 03.12.2014
(33) Japan

(51) D01G 15/34
D01G 15/74
D01G 15/76
(11) EP3530780
(21) EP19156319.6
(47) 26.01.2022
(22) 11.02.2019
(54) DEVICE FOR SEPARATING OUT IMPURITIES
(73) Maschinenfabrik Rieter AG
(72) JELINEK, Pavel
(31) 2272018
(32) 26.02.2018
(33) Switzerland

(51) D01G 23/06
D01G 31/00
G01B 11/14
G01N 21/89
(11) EP3400325
(21) EP17702757.0
(47) 26.01.2022
(87) CH2017000001
13.07.2017
(22) 03.01.2017
(54) PROCESS AND DETECTION UNIT TO MONITOR A FIBER FLOW
(73) Maschinenfabrik Rieter AG
Uster Technologies AG
(72) STORZ, Rafael
BÜHLER, Beat
SAARO, Dyrk
SIEGENTHALER, Mario
(31) 12016
(32) 04.01.2016
(33) Switzerland

(51) D01H 4/32
(11) EP3754062
(21) EP20180129.7
(47) 26.01.2022
(22) 16.06.2020
(54) FIBRE BUNDLE OPENING DEVICE FOR AN OPEN-END SPINNING DEVICE
(73) Saurer Spinning Solutions GmbH & Co. KG
(72) Geerligs, Jens
Keuter, Florian
Jakobinski, Andreas
Winzen, Lothar
(31) 102019116584
(32) 19.06.2019
(33) Germany

(51) D01H 5/32
B65H 67/04
D01G 15/10
(11) EP3336228
(21) EP17205448.8
(47) 26.01.2022
(22) 05.12.2017
(54) METHOD FOR OPERATING A DRAW FRAME AND A DRAW FRAME FOR DRAWING A SLIVER
(73) Rieter Ingolstadt GmbH
(72) HILLERBRAND, Markus
(31) 102016124686
(32) 16.12.2016
(33) Germany

(51) D03D 15/00
A41D 31/02
A41B 17/00
B32B 5/26

(11) EP2834399
(21) EP13723559.4
(47) 26.01.2022
(87) IL2013050300
10.10.2013
(22) 02.04.2013
(54) A MULTI-COMPONENT COMBINATION YARN SYSTEM FOR MOISTURE MANAGEMENT IN TEXTILES AND SYSTEM FOR PRODUCING SAME
(73) Argaman Technologies Ltd.
(72) GABBAY, Jeffrey S.
(31) 201261619946 P
(32) 04.04.2012
(33) United States of America

(51) D04B 15/88
D04B 35/34
(11) EP3374555
(21) EP16801304.3
(47) 26.01.2022
(87) IB2016056104
18.05.2017
(22) 12.10.2016
(54) OPEN-TYPE CIRCULAR KNITTING MACHINE FOR THE OPEN AND WIDTH-VARIABLE WEB PRODUCTION
(73) SANTONI S.p.A.
(72) LONATI, Andrea
LONATI, Ettore
LONATI, Fausto
(31) UB20155508
(32) 12.11.2015
(33) Italy

(51) D04B 21/12
(11) EP3362595
(21) EP16790661.9
(47) 26.01.2022
(87) FR2016052547
20.04.2017
(22) 04.10.2016
(54) KNITTED TEXTILE MESH
(73) Deltaval
MDB Texinov
(72) TANKERE, Jacques
BRUGIRARD, Laure-Anne
LESUR, Thierry
(31) 1559834
(32) 16.10.2015
(33) France

(51) D04H 1/587
C08F 218/04
C08F 218/08
C08G 59/32
D04H 1/64
C08L 79/02
(11) EP3387176
(21) EP16822810.4
(47) 26.01.2022
(87) US2016065057
15.06.2017
(22) 06.12.2016
(54) CARBOXYLATED VINYL ACETATE/ ETHYLENE COPOLYMER DISPERSIONS AND USES THEREOF
(73) Celanese International Corporation
(72) SCOTT, Paul Alexander
MCLENNAN, Alistair John
LICHERI, Cristiana
ROSSI, Ivan
(31) 102015015907
(32) 09.12.2015
(33) Germany

(51) D05B 1/24
D05B 65/02
(11) EP3875652
(21) EP20161287.6
(47) 26.01.2022
(22) 05.03.2020
(54) BLIND STITCH SEWING MACHINE WITH THREAD CUTTER
(73) Strobel Spezialmaschinen GmbH
(72) ROSEMANN, Michael
BEZRODNY, Kostyantyn

(51) D05B 23/00
D05B 37/02
D05B 69/30
(11) EP3781739
(21) EP19709873.4
(47) 26.01.2022
(87) EP2019055326
24.10.2019
(22) 04.03.2019
(54) SEWING MACHINE
(73) Pfaff Industriesysteme und Maschinen GmbH
(72) BECKER, Berthold
SAMSTAG, Stefan
KALLENBACH, Harald
(31) 102018205835
(32) 17.04.2018
(33) Germany

(51) D06F 33/37
D06F 39/02
D06F 39/08
D06F 103/22
D06F 105/42
D06F 105/58
(11) EP3725930
(21) EP20169321.5
(47) 26.01.2022
(22) 14.04.2020
(54) WASHING MACHINE AND CONTROL METHOD OF SAME
(73) LG Electronics Inc.
(72) CHAE, Kyosoon
OH, Sooyoung
KIM, Hyundong
JEONG, Jaeyong
(31) 20190042782
(32) 12.04.2019
(33) Korea (Republic)

(51) D06F 34/18
D06F 23/04
D06F 21/08
D06F 37/20
D06F 37/24
D06F 103/04
D06F 103/18
D06F 103/26
D06F 103/38
D06F 105/02
D06F 105/48
D06F 105/58
D06F 105/60
(11) EP2616581
(21) EP11825382.2
(47) 26.01.2022
(87) KR2011006688
22.03.2012
(22) 08.09.2011
(54) METHOD OF CONTROLLING A WASHING MACHINE
(73) LG Electronics Inc.
(72) MOON, Tae chul
KIM, Young Jong
(31) 20100090155
20100090156
20100090764
20100094613
20100112254
20110019134
20110019135
(32) 14.09.2010
14.09.2010
15.09.2010
29.09.2010
11.11.2010
03.03.2011
03.03.2011
(33) Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)

(51) D06F 39/00
D06F 34/18
D06F 39/12
D06F 103/04
D06F 103/18
(11) EP3269866
(21) EP15884412.6
(47) 26.01.2022
(87) CN2015095298
15.09.2016
(22) 23.11.2015
(54) WASHER BOTTOM FOOT WITH AUTOMATIC WEIGHING STRUCTURE
(73) Qingdao Haier Washing Machine Co., Ltd.
(72) ZHOU, Chunxia
TIAN, Yun
LI, Feng
ZHANG, Gangjin
(31) 201510108416
(32) 12.03.2015
(33) China

(51) D07B 1/02
D07B 5/12
(11) EP3597819
(21) EP19187139.1
(47) 26.01.2022
(22) 18.07.2019
(54) TEXTILE TRACTION AND / OR SUPPORT MEANS AND METHOD FOR PRODUCING TEXTILE TRACTION AND / OR SUPPORT MEANS
(73) TROWIS GmbH
(72) Heinze, Thorsten
Streubel, Peter
(31) 202018003494 U
102018005927
202018003493 U

102018005926
(32) 21.07.2018
21.07.2018
21.07.2018
21.07.2018
(33) Germany
Germany
Germany
Germany

(51) D21C 11/00
D21C 11/04
(11) EP3080353
(21) EP14821093.3
(47) 26.01.2022
(87) EP2014077450
18.06.2015
(22) 11.12.2014
(54) PROCESS FOR LIGNIN PURIFICATION AND ISOLATION
(73) Annikki GmbH
(72) DYBOV, Alexander
MATEJKA, Julia
(31) 13196954
(32) 12.12.2013
(33) European Patent Office (EPO)

(51) D21H 17/63
D21H 17/66
D21H 21/14
H01L 51/00
(11) EP3760788
(21) EP19184420.8
(47) 26.01.2022
(22) 04.07.2019
(54) SEMICONDUCTING PAPER COMPRISING CELLULOSE FIBRES
(73) RISE RESEARCH INSTITUTES OF SWEDEN AB
(72) BERGGREN, Magnus
CRISPIN, Xavier
ALVI, Naveed ul Hassan
JONSSON, Magnus

(51) E01B 9/68
(11) EP3546650
(21) EP19165480.5
(47) 26.01.2022
(22) 27.03.2019
(54) SYSTEM AND METHOD FOR HOLDING A RAIL
(73) Semperit AG Holding
(72) MIEßBACHER, Herwig
(31) 102018107215
(32) 27.03.2018
(33) Germany

(51) E01B 29/05
E01B 29/06
B61D 15/00
B61D 47/00
B65F 1/00
B65G 7/12
B61D 3/02
B61D 3/10
B61D 3/16
B65G 67/22
(11) EP3732330
(21) EP18833231.6
(47) 26.01.2022
(87) EP2018086467
04.07.2019
(22) 21.12.2018
(54) SLEEPER TRANSPORT VEHICLE
(73) Plasser & Theurer Export von Bahnbaumaschinen GmbH
(72) LINTZ, Gerard
(31) 5012017
(32) 28.12.2017
(33) Austria

(51) E01B 31/04
(11) EP3665331
(21) EP18750516.9
(47) 26.01.2022
(87) IB2018055331
14.02.2019
(22) 18.07.2018
(54) A RAIL TOOL-HOLDER CART
(73) Cembre S.p.A.
(72) BAREZZANI, Gualtiero
GIACOMAZZI, Gianluca
(31) 201700091285
(32) 07.08.2017
(33) Italy

(51) E01B 31/18
E01B 29/16
E01B 29/44
(11) EP3631089
(21) EP18725842.1
(47) 26.01.2022
(87) EP2018063168
29.11.2018
(22) 18.05.2018
(54) METHOD FOR LAYING A RAIL OF A RAILWAY LINE
(73) Matisa Matériel Industriel SA
(72) PIGUET, Jean-Claude
(31) 1754528
(32) 22.05.2017
(33) France

(51) E02B 17/02
E02D 27/52
E02B 17/00
(11) EP3530810
(21) EP19159330.0
(47) 26.01.2022
(22) 26.02.2019
(54) OFFSHORE PLATFORM WITH AT LEAST ONE DRIVEN PILE
(73) Tractebel Overdick GmbH
(72) OLTMANN, Klaas
(31) 102018104328
(32) 26.02.2018
(33) Germany

(51) E02F 3/36
(11) EP2426268
(21) EP10175662.5
(47) 26.01.2022
(22) 07.09.2010
(54) A coupling arrangement
(73) Caterpillar Work Tools B. V.
(72) Luyendijk, Dirk Jacobus
Van Hooft, Cornelius Antonius Maria
Jongebloed, Holger

(51) E02F 3/43
E02F 9/26
E02F 3/32
(11) EP3272947
(21) EP16765080.3
(47) 26.01.2022
(87) JP2016058566
22.09.2016
(22) 17.03.2016
(54) EXCAVATOR
(73) Sumitomo (S.H.I.) Construction Machinery Co., Ltd.
(72) MORIMOTO, Takaaki
(31) 2015056872
(32) 19.03.2015
(33) Japan

(51) E02F 9/20
G05G 1/06
(11) EP3351691
(21) EP16845998.0
(47) 26.01.2022
(87) JP2016055306
23.03.2017
(22) 23.02.2016
(54) GRIP HEATING DEVICE FOR CONSTRUCTION MACHINERY
(73) Hitachi Construction Machinery Tierra Co., Ltd.
(72) NOMURA, Takuya
OMIYA, Takeyuki
YUNOUE, Masayuki
TAKAGI, Wataru
TAKISHITA, Tatsuo
(31) 2015182286
(32) 15.09.2015
(33) Japan

(51) E02F 9/24
E02F 3/28
E02F 9/20
E02F 9/26
E02F 9/22
(11) EP3725959
(21) EP17934527.7
(47) 26.01.2022
(87) JP2017044610
20.06.2019
(22) 12.12.2017
(54) EXCAVATOR
(73) Sumitomo Heavy Industries, Ltd.
(72) WU, Chunnan

(51) E03B 7/04
E03B 7/02
E03C 1/02
E03D 5/10
(11) EP3695058
(21) EP18786703.1
(47) 26.01.2022
(87) EP2018077410
18.04.2019
(22) 09.10.2018
(54) DRINKING WATER SUPPLY SYSTEM WITH GROUPWISE CONTROL, METHOD FOR CONTROLLING THE SAME, AND COMPUTER PROGRAM
(73) Viega Technology GmbH & Co. KG
(72) STEGER, Patrick
LÖHER, David
WINTERHOLLER, Arthur
SCHAUER, Christian
KRAMER, Markus
OTTO, Christian
(31) 102018108850
102017123437

(32) 13.04.2018
09.10.2017
(33) Germany
Germany

(51) E03D 9/08
E03D 11/13
A47K 13/16
A47K 13/30
(11) EP3732338
(21) EP18836414.5
(47) 26.01.2022
(87) IB2018060647
04.07.2019
(22) 27.12.2018
(54) AN ACCESSORY ASSEMBLY FOR A TOILET BOWL, HAVING A SERVICE EQUIPMENT
(73) New Line S.r.l.
(72) RAVIZZOTTI, Paolo
(31) 201700150509
(32) 28.12.2017
(33) Italy

(51) E04B 1/35
E04B 1/16
E04B 2/68
B33Y 10/00
(11) EP3670775
(21) EP18212899.1
(47) 26.01.2022
(22) 17.12.2018
(54) METHOD FOR PRODUCING A WALL OF A STRUCTURE MADE OF CONCRETE AND A WALL OF A CONCRETE STRUCTURE
(73) Ed. Züblin Aktiengesellschaft
(72) Kuhn, Alexander
Weber, Peter

(51) E04C 2/292
E04D 3/35
F16J 15/14
(11) EP2673427
(21) EP12704553.2
(47) 26.01.2022
(87) IE2012000004
16.08.2012
(22) 09.02.2012
(54) Composite insulating panel and its method for manufacturing
(73) Kingspan Research and Developments Limited
(72) CAROLAN, James
FLYNN, Gregory
(31) 20110057
(32) 09.02.2011
(33) Ireland

(51) E04D 13/03
(11) EP3533947
(21) EP18248013.7
(47) 26.01.2022
(22) 27.12.2018
(54) A SUPPORTING FRAME FOR AN INSULATING FRAME FOR A ROOF WINDOW AND A METHOD OF ASSEMBLING A SUPPORTING FRAME
(73) VKR Holding A/S
(72) ANSØ, Bo
(31) PA201771027
(32) 27.12.2017
(33) Denmark

(51) E04D 13/03
(11) EP3783161
(21) EP20155237.9
(47) 26.01.2022
(22) 03.02.2020
(54) A SKYLIGHT WINDOW
(73) VKR Holding
(72) Pedersen, Rasmus Klercke
Østergaard, Iben Bjerre
Grønborg, Kristian Nitzsch
Kristensen, Lars
Bertram, Jacob

(51) E04D 13/03
(11) EP3779089
(21) EP20155246.0
(47) 26.01.2022
(22) 03.02.2020
(54) A SKYLIGHT WINDOW FRAME FOR BEING INSTALLED IN OR ON A ROOF OF A BUILDING, A SYSTEM COMPRISING A SKYLIGHT WINDOW AND A METHOD FOR FASTENING A SKYLIGHT WINDOW FRAME
(73) VKR Holding A/S
(72) Østergaard, Iben Bjerre
Kristensen, Lars
Pedersen, Rasmus Klercke
Bertram, Jacob
Grønborg, Kristian Nitzsch

(51) E04D 13/04
(11) EP3505703
(21) EP19157327.8
(47) 26.01.2022
(22) 12.06.2015
(54) DRAIN ASSEMBLY
(73) Geberit International AG
(72) HAUSHEER, Roman

(51) E04F 13/06
E04B 1/76
E04B 1/94
E06B 1/62
E06B 5/16
(11) EP3822426
(21) EP19208516.5
(47) 26.01.2022
(22) 12.11.2019
(54) SYNTHETIC SEALING PROFILE WITH REDUCED FLAME RISK
(73) Braun, August
(72) MEYER, Oliver

(51) E04F 13/06
E06B 1/62
(11) EP3744922
(21) EP20164753.4
(47) 26.01.2022
(22) 22.03.2020
(54) PLASTERING STRIP WITH TRANSPARENT WATER DRIP STRIP
(73) K-Uni Kunststoffproduktions- und Handels-GmbH
(72) PESSENTHEINER, Sandro
(31) 503282019
(32) 11.04.2019
(33) Austria

(51) E04F 15/00
(11) EP3122958
(21) EP15713675.5
(47) 26.01.2022
(87) EP2015056297
01.10.2015
(22) 24.03.2015
(54) A SET OF MUTUALLY LOCKABLE PANELS
(73) Flooring Industries Limited, SARL
(72) VERMEULEN, Bruno Paul Louis
DE RICK, Jan Eddy
(31) 201414223303
14161364
(32) 24.03.2014
24.03.2014
(33) United States of America
European Patent Office (EPO)

(51) E04F 15/02
E04F 15/06
(11) EP3832051
(21) EP19213252.0
(47) 26.01.2022
(22) 03.12.2019
(54) FLOORBOARD
(73) GEWA Balkonsysteme GmbH
(72) Keller, Andreas

(51) E04H 15/20
E04H 15/22
E04H 15/64
(11) EP3387198
(21) EP16829071.6
(47) 26.01.2022
(87) EP2016080597
15.06.2017
(22) 12.12.2016
(54) AIR DOME WITH WINDOWS
(73) Ming, Klaus
(72) Ming, Klaus
(31) 2182016
18072015
(32) 19.02.2016
10.12.2015
(33) Switzerland
Switzerland

(51) E04H 17/16
(11) EP3775441
(21) EP19720054.6
(47) 26.01.2022
(87) EP2019058095
03.10.2019
(22) 29.03.2019
(54) FENCE POST WITH ATTACHING MEANS AND A MODULAR FENCING SYSTEM
(73) Kahlberg Zaun GmbH
(72) KÖSEDAG, Ali
(31) 18165347
(32) 30.03.2018
(33) European Patent Office (EPO)

(51) E05B 47/00
E05B 47/06
(11) EP3734001
(21) EP20020149.9
(47) 26.01.2022
(22) 02.04.2020
(54) LOCKING DEVICE
(73) EVVA Sicherheitstechnologie GmbH
(72) Enne, Reinhard J.
Pramhas, Gerhard

Wallner, Alexander
(31) 1572019
(32) 03.05.2019
(33) Austria

(51) E05B 67/22
E05B 67/06
(11) EP3584394
(21) EP19190222.0
(47) 26.01.2022
(22) 24.08.2015
(54) HOOP LOCK WITH ANTI-ROTATION FEATURES
(73) Schlage Lock Company LLC
(72) KINDSTRAND, Daniel Hugh
KUMAR, Hassan Charan
RAMAKRISHNA, Manjunatha
MILLER, David Bruce
(31) 201462040929 P
(32) 22.08.2014
(33) United States of America

(51) E05B 85/10
E05B 81/06
E05B 81/42
E05B 15/04
(11) EP3734003
(21) EP20169274.6
(47) 26.01.2022
(22) 14.04.2020
(54) DOOR HANDLE ASSEMBLY
(73) Witte Automotive GmbH
(72) HERDERING, Markus
(31) 102019206293
(32) 02.05.2019
(33) Germany

(51) E05C 17/16
E05C 17/20
(11) EP3837411
(21) EP19759283.5
(47) 26.01.2022
(87) DE2019100728
20.02.2020
(22) 13.08.2019
(54) DOOR ARRESTER
(73) Edscha Engineering GmbH
(72) HEINRICHS, Gundolf
ACKERS, Heiner
MEISSNER, Torsten
HOFFMANN, Peter
(31) 102018119650
(32) 13.08.2018
(33) Germany

(51) E05D 7/086
E05D 3/06
F16C 11/04
F16F 9/14
F16F 9/48
(11) EP2752542
(21) EP12828072.4
(47) 26.01.2022
(87) JP2012071799
07.03.2013
(22) 29.08.2012
(54) ROTARY DAMPER AND HINGE DEVICE WITH DAMPER
(73) Sugatsune Kogyo Co., Ltd.
(72) OSHIMA, Kazuyoshi
SHINMURA, Ken
OGASAWARA, Hideki
(31) 2011189120
(32) 31.08.2011
(33) Japan

(51) E05D 15/52
E05D 5/02
(11) EP3204584
(21) EP15750752.6
(47) 26.01.2022
(87) EP2015068875
14.04.2016
(22) 18.08.2015
(54) ANGULAR FITTING
(73) SIEGENIA-AUBI KG
(72) HARTMANN, Gerhard
(31) 202014007902 U
(32) 06.10.2014
(33) Germany

(51) E05F 15/00
E05F 15/70
E05F 15/611
(11) EP2762667
(21) EP14153669.8
(47) 26.01.2022
(22) 03.02.2014
(54) Drive system and method of operating a drive system
(73) Aumüller Aumatic GmbH
(72) Sopkowiak, Peter
Aumüller, Reiner
(31) 202013100498 U
(32) 04.02.2013
(33) Germany

(51) E05F 15/614
E05F 15/63
(11) EP3293335
(21) EP17189335.7
(47) 26.01.2022
(22) 05.09.2017
(54) MOTORIZED DRIVING DEVICE FOR AT LEAST ONE WING
(73) BHG
(72) BUBENDORF, Robert
(31) 1658316
(32) 07.09.2016
(33) France

(51) E06B 1/60
(11) EP3575536
(21) EP19177025.4
(47) 26.01.2022
(22) 28.05.2019
(54) METHOD FOR MOUNTING A COMPONENT, IN PARTICULAR A WINDOW OR DOOR FRAME, IN AN OPENING OF A BUILDING WALL
(73) REHAU AG + Co
(72) Bräuer, Axel
Strom, Uwe
Johannsen, Jens
(31) 102018112956
(32) 30.05.2018
(33) Germany

(51) E06B 3/46
E04B 2/82
E06B 3/02
E06B 3/663
E05D 15/10
E04B 2/74
(11) EP3187678
(21) EP16207415.7
(47) 26.01.2022
(22) 29.12.2016
(54) GLASS DOOR/WINDOW COMPRISING LEAVES ALIGNED ALONG A SINGLE AND CONTINUOUS PLANE
(73) Setten Genesio Holding S.p.A.
(72) SETTEN, Genesio
(31) 201600083836
UB20159234
(32) 09.08.2016
29.12.2015
(33) Italy
Italy

(51) E06B 3/663
(11) EP3743583
(21) EP19700599.4
(47) 26.01.2022
(87) EP2019050992
25.07.2019
(22) 16.01.2019
(54) SPACER FOR INSULATED GLAZING UNITS WITH ELECTRICAL WIRE INTEGRATED IN HOLLOW CHAMBER
(73) SAINT-GOBAIN GLASS FRANCE
(72) KUSTER, Hans-Werner
MORVAN, Guenael
MARJAN, Christopher
NEANDER, Marcus
(31) 18152707
(32) 22.01.2018
(33) European Patent Office (EPO)

(51) E06B 3/96
E06B 3/968
E06B 3/22
E06B 3/964
(11) EP3511509
(21) EP19151024.7
(47) 26.01.2022
(22) 09.01.2019
(54) CONNECTION CONSTRUCTION COMPRISING WELD-FREE CONNECTED POLYMER-BASED HOLLOW CHAMBER PROFILES
(73) Weber Glas en Kunststof B.V.
(72) Weber, Hendrikus Thomas Maria
Holslag, Desiderius Rudolf Petrus
(31) 2020272
(32) 12.01.2018
(33) Netherlands

(51) E06B 5/16
E06B 3/263
(11) EP2990581
(21) EP15182151.9
(47) 26.01.2022
(22) 24.08.2015
(54) DOOR OR WINDOW WITH FIRE PROTECTION PROPERTIES
(73) SCHÜCO International KG
(72) SIEKMANN, Carsten
LUTZENBERGER, Tobias
(31) 102014112107
(32) 25.08.2014
(33) Germany

(51) E06B 9/24
(11) EP3122983
(21) EP15715593.8

(47) 26.01.2022
(87) US2015022503
01.10.2015
(22) 25.03.2015
(54) LIGHT MASKED SMART GLAZING
(73) Cardinal CG Company
(72) HARTIG, Klaus
BURROWS, Keith James
(31) 201461971952 P
(32) 28.03.2014
(33) United States of America

(51) E06B 9/68
G06F 3/01
(11) EP3728782
(21) EP18830453.9
(47) 26.01.2022
(87) EP2018085674
27.06.2019
(22) 18.12.2018
(54) METHOD FOR SETTING A COMMAND FOR A ROLLER SHUTTER
(73) Delta Dore
(72) DELAHAYE, Nathanaël
LEDUC, Benoît
RONDEAU, Laurent
(31) 1763034
(32) 22.12.2017
(33) France

(51) E21B 7/06
(11) EP3732344
(21) EP18819362.7
(47) 26.01.2022
(87) GB2018053585
04.07.2019
(22) 11.12.2018
(54) A WHIPSTOCK
(73) McGarian, Bruce
(72) McGarian, Bruce
(31) 201722286
(32) 29.12.2017
(33) United Kingdom

(51) E21B 21/10
E21B 34/14
E21B 33/14
(11) EP3717732
(21) EP18880184.9
(47) 26.01.2022
(87) US2018061922
31.05.2019
(22) 20.11.2018
(54) METHOD AND APPARATUS FOR CEMENTING AND CLEANING A RESERVOIR LINER
(73) ConocoPhillips Company
(72) LEISTAD, Hans Martin
KVARME, Leif Arne
GIRDLER, Donald R.
(31) 201816195541
201762591043 P
(32) 19.11.2018
27.11.2017
(33) United States of America
United States of America

(51) E21B 33/12
E21B 33/13
C09K 8/42
E21B 36/00
(11) EP3724445
(21) EP18888318.5
(47) 26.01.2022
(87) US2018065446
20.06.2019
(22) 13.12.2018
(54) P&A SETTING WITH EXOTHERMIC MATERIAL
(73) Conocophillips Company
(72) SHAFER, Randall S.
(31) 201762598680 P
(32) 14.12.2017
(33) United States of America

(51) E21B 34/06
E21B 34/10
(11) EP3784879
(21) EP19717790.0
(47) 26.01.2022
(87) EP2019058665
31.10.2019
(22) 05.04.2019
(54) WELL TOOL DEVICE FOR OPENING AND CLOSING A FLUID BORE IN A WELL
(73) Interwell Norway AS
(72) BJØRGUM, Stig, Ove
HIORTH, Espen
(31) 20180579
(32) 25.04.2018
(33) Norway

(51) E21B 43/12
(11) EP3529458
(21) EP18717797.7
(47) 26.01.2022
(87) US2018024308
04.10.2018
(22) 26.03.2018
(54) METHOD AND APPARATUS FOR STABILIZING GAS/LIQUID FLOW IN A VERTICAL CONDUIT
(73) Saudi Arabian Oil Company
(72) VILAGINES, Regis, Didier, Alain
OSHINOWO, Olanrewaju, Malcolm
SHARIFF, Maher, Maqbool
(31) 201715469906
(32) 27.03.2017
(33) United States of America

(51) F01D 3/04
F04D 29/041
F04D 29/051
F01D 5/04
(11) EP3676499
(21) EP18852610.7
(47) 26.01.2022
(87) US2018042464
07.03.2019
(22) 17.07.2018
(54) AXIAL THRUST BALANCING DEVICE
(73) Flowserve Management Company
(72) BRUURS, Kevin
(31) 201715691899
(32) 31.08.2017
(33) United States of America

(51) F01D 5/00
F01D 5/30
(11) EP3037623
(21) EP15202315.6
(47) 26.01.2022
(22) 23.12.2015
(54) BUCKET ASSEMBLY AND METHOD FOR REPLACING THE SAME
(73) Doosan Heavy Industries & Construction Co., Ltd.
(72) CHOI, Sung Man
(31) 20140188544
(32) 24.12.2014
(33) Korea (Republic)

(51) F01D 5/02
F01D 25/06
(11) EP3650636
(21) EP19195570.7
(47) 26.01.2022
(22) 05.09.2019
(54) GAS TURBINE ENGINE HAVING A TRIM BALANCE
(73) Raytheon Technologies Corporation
(72) JUH, Christopher M.
(31) 201816183008
(32) 07.11.2018
(33) United States of America

(51) F01D 5/14
(11) EP3740656
(21) EP18707591.6
(47) 26.01.2022
(87) US2018018270
22.08.2019
(22) 15.02.2018
(54) ARTICLE OF MANUFACTURE
(73) Siemens Energy Global GmbH & Co. KG
(72) GUSTAFSON, Ross
WONG, Li Shing
TAREMI, Farzad

(51) F01D 5/14
F01D 5/28
F01D 11/00
F04D 29/32
(11) EP3677749
(21) EP19215168.6
(47) 26.01.2022
(22) 11.12.2019
(54) COMPOSITE PLATFORM WITH LATTICE STRUCTURE
(73) Raytheon Technologies Corporation
(72) THEERTHAM, Arun K.
(31) 201816216012
(32) 11.12.2018
(33) United States of America

(51) F01D 5/14
G06F 30/20
G06F 113/28
(11) EP2987102
(21) EP14722281.4
(47) 26.01.2022
(87) FR2014050934
23.10.2014
(22) 16.04.2014
(54) METHOD OF MODELING A WORKPIECE, IN PARTUCILAR A TURBINE BLADE
(73) Safran Aircraft Engines
(72) CELLIER, Damien, Joseph
PERROT, Vincent, Paul, Gabriel
(31) 1353439
(32) 16.04.2013
(33) France

(51) F01D 5/18

F01D 9/02
F01D 9/06
(11) EP3279434
(21) EP17174037.6
(47) 26.01.2022
(22) 01.06.2017
(54) COOLED GAS TURBINE ENGINE COMPONENT WITH BAFFLES
(73) Raytheon Technologies Corporation
(72) DZIUBA, Thomas P.
LARSON, Gary J.
KOVACH, Scott A.
BANKS, Anton G.
COLLINS, Leah M.
(31) 201615228573
(32) 04.08.2016
(33) United States of America

(51) F01D 5/20
F01D 11/08
(11) EP3204614
(21) EP15778648.4
(47) 26.01.2022
(87) EP2015073362
14.04.2016
(22) 09.10.2015
(54) DEVICE FOR INFLUENCING THE FLOW IN A TURBOMACHINE
(73) Universität Stuttgart
(72) SCHATZ, Markus
VOGT, Damian
(31) 14188515
(32) 10.10.2014
(33) European Patent Office (EPO)

(51) F01D 5/28
F01D 9/04
F01D 25/16
F01D 5/14
(11) EP3663527
(21) EP19214262.8
(47) 26.01.2022
(22) 06.12.2019
(54) DIFFUSER CASE HEAT SHIELDS
(73) Raytheon Technologies Corporation
(72) ROBERGE, Gary D.
(31) 201816213395
(32) 07.12.2018
(33) United States of America

(51) F01D 9/06
F01D 9/04
(11) EP3505726
(21) EP18214959.1
(47) 26.01.2022
(22) 20.12.2018
(54) VANE ASSEMBLY FOR A GAS TURBINE ENGINE
(73) Raytheon Technologies Corporation
(72) SIMMS, Vincent E.
WHITFIELD, Christopher
LORICCO, Nicholas M.
SALZILLO, Richard M.
HEMBREE, Sr., Jeffery Scott
MCMAHON, Shawn M.
ALLWOOD, Thomas
GAUTSCHI, Steven Bruce
ANIELLO, Justin M.
(31) 201715856182
(32) 28.12.2017
(33) United States of America

(51) F01D 11/08
F01D 25/24
(11) EP3246523
(21) EP17171798.6
(47) 26.01.2022
(22) 18.05.2017
(54) COOLED BLADE OUTER AIR SEAL
(73) Raytheon Technologies Corporation
(72) GALLE, Nathan K.
(31) 201615158782
(32) 19.05.2016
(33) United States of America

(51) F01D 17/14
F01D 25/24
F02C 9/18
F16K 1/22
F16K 27/02
(11) EP3502423
(21) EP18213929.5
(47) 26.01.2022
(22) 19.12.2018
(54) ADDITIVELY MANUFACTURED INTEGRATED VALVE AND ACTUATOR HOUSING FOR A GAS TURBINE ENGINE
(73) Hamilton Sundstrand Corporation
(72) ELDER, James S.
SANDU, Codrin Dan
KOWALSKI, John W.
(31) 201715850520
(32) 21.12.2017
(33) United States of America

(51) F01D 17/16
(11) EP2929151
(21) EP12889639.6
(47) 26.01.2022
(87) US2012067875
12.06.2014
(22) 05.12.2012
(54) METHOD FOR ADJUSTING EXHAUST GAS TEMPERATURE AND TURBOCHARGER WITH BYPASS ARRANGEMENT
(73) Mack Trucks, Inc.
(72) MYERS, Adam
GIBBLE, John

(51) F01D 17/16
(11) EP3176385
(21) EP15198097.6
(47) 26.01.2022
(22) 04.12.2015
(54) GUIDE- BLADE RIM HOUSING FOR A TURBOMACHINE AND TURBOMACHINE WITH GUIDE- BLADE RIM HOUSING
(73) MTU Aero Engines AG
(72) Mairhanser, Vitalis
Albers, Lothar
Zotz, Georg

(51) F01D 25/00
F02C 7/30
(11) EP2992184
(21) EP14727592.9
(47) 26.01.2022
(87) FR2014050987
06.11.2014
(22) 23.04.2014
(54) DEVICE FOR WASHING A TURBOMACHINE AIR INTAKE CASING
(73) Safran Helicopter Engines
(72) GOURDANT, Sylvain, Jacques, Marie
CHABANNE, Pierre
GIRARDOT, Julien
SCUILLER, Lionel
(31) 1353984
(32) 30.04.2013
(33) France

(51) F01D 25/16
F04D 29/58
F04D 25/12
F01D 1/06
F01D 25/12
(11) EP3705730
(21) EP19213863.4
(47) 26.01.2022
(22) 05.12.2019
(54) BEARING COOLING FLOW FOR TURBINE AND COMPRESSOR UTILIZED TO SUPPLY AIR FOR AIRCRAFT CABIN
(73) Hamilton Sundstrand Corporation
(72) COLSON, Darryl A.
BEERS, Craig M.
(31) 201916292677
(32) 05.03.2019
(33) United States of America

(51) F01D 25/18
F02C 7/06
F01M 11/06
F16N 19/00
(11) EP3707350
(21) EP18833487.4
(47) 26.01.2022
(87) FR2018053336
27.06.2019
(22) 17.12.2018
(54) DEVICE FOR SUPPLYING AN OIL TANK FROM A SECOND TANK
(73) SAFRAN AIRCRAFT ENGINES
(72) FRANTZ, Caroline, Marie
DUPAYS, Clément
SANTIN, Mathieu, Jean, Jacques
GAILLOT-DREVON, Benoît
(31) 1762603
(32) 20.12.2017
(33) France

(51) F01K 9/00
F01K 11/00
F01K 17/00
(11) EP3092376
(21) EP14815620.1
(47) 26.01.2022
(87) EP2014077157
25.06.2015
(22) 10.12.2014
(54) THERMAL POWER PLANT WITH HEAT RECOVERY, AND ENERGY CONVERSION METHOD USING SUCH A THERMAL POWER PLANT
(73) Mächler, Josef
(72) Mächler, Josef
(31) 21152013
(32) 20.12.2013
(33) Switzerland

(51) F01M 1/08

F01M 11/02
F16N 7/38
F02F 1/20
(11) EP3368751
(21) EP15907164.6
(47) 26.01.2022
(87) DK2015050329
04.05.2017
(22) 28.10.2015
(54) A LARGE SLOW-RUNNING TWO-STROKE ENGINE WITH SIP LUBRICANT INJECTOR
(73) Hans Jensen Lubricators A/S
(72) BENNEDSEN, Nick Paw

(51) F01N 3/20
(11) EP3803074
(21) EP19728598.4
(47) 26.01.2022
(87) EP2019063510
28.11.2019
(22) 24.05.2019
(54) SYSTEM FOR STORING AN AQUEOUS SOLUTION FOR A MOTOR VEHICLE
(73) Plastic Omnium Advanced Innovation And Research
(72) DERANGERE, Nicolas
LECLEC'H, Nicolas
GUILLERME, Hervé
(31) 1854365
(32) 24.05.2018
(33) France

(51) F01N 3/20
B01F 5/04
B01F 5/06
F01N 3/28
(11) EP3757364
(21) EP20177307.4
(47) 26.01.2022
(22) 29.05.2020
(54) MIXER FOR A SCR EXHAUST TREATMENT SYSTEM
(73) Purem GmbH
(72) Hoeckel, Sandra
Kurpejovic, Enver
Hass, Ruben
Friedrich, Florian
Vempati, Krishna Kumar
(31) 102019117459
(32) 28.06.2019
(33) Germany

(51) F01N 3/20
F01N 3/28
B01F 5/00
B01F 3/04
B01F 5/02
B01F 5/06
(11) EP3611354
(21) EP19190234.5
(47) 26.01.2022
(22) 06.08.2019
(54) MIXER
(73) Purem GmbH
(72) Kurpejovic, Enver
Yenugula, Krishna Siva Prasad Reddy
Vempati, Krishna Kumar
Hass, Ruben
(31) 102018119578
(32) 13.08.2018
(33) Germany

(51) F01N 3/28
B01F 5/06
F01N 3/20
(11) EP3412881
(21) EP17746951.7
(47) 26.01.2022
(87) CN2017072718
10.08.2017
(22) 26.01.2017
(54) MIXING CAVITY ASSEMBLY
(73) Tenneco GmbH
Tenneco (Suzhou) Emission System Co., Ltd.
(72) ZHAO, Zhiguo
YU, Yang
SI, Maxiang
PENG, Yu
WANG, Cong
HAN, Wenjun
SUN, Xiaogang
TWAROG, Szymon
PRUS, Lukasz
(31) 201610075594
(32) 03.02.2016
(33) China

(51) F02B 75/02
(11) EP3728814
(21) EP17818567.4
(47) 26.01.2022
(87) EP2017083801
27.06.2019
(22) 20.12.2017
(54) METHOD FOR OPERATING AN INTERNAL COMBUSTION ENGINE
(73) VOLVO TRUCK CORPORATION
(72) LASSESSON, Bengt
RAHM, Fredrik

(51) F02C 6/08
B64D 13/08
(11) EP3249198
(21) EP17173077.3
(47) 26.01.2022
(22) 26.05.2017
(54) MIXING RAM AND BLEED AIR IN A DUAL ENTRY TURBINE SYSTEM
(73) Hamilton Sundstrand Corporation
(72) BRUNO, Louis J.
HIPSKY, Harold W.
(31) 201662341845 P
(32) 26.05.2016
(33) United States of America

(51) F02C 7/06
B64D 41/00
F16H 57/04
F16K 3/06
F16K 31/30
F16N 19/00
(11) EP3792470
(21) EP19382788.8
(47) 26.01.2022
(22) 12.09.2019
(54) OVERFILL VALVE WITH A FLOATING VALVE
(73) Airbus Operations, S.L.
(72) CHIABRANDO, Marcos Javier
FERNÁNDEZ LÓPEZ, Pio

(51) F02C 7/143
F04D 29/58
F01D 5/08
F02C 9/18
F02C 7/18
F04D 27/02
(11) EP3181869
(21) EP16203857.4
(47) 26.01.2022
(22) 13.12.2016
(54) COMPRESSOR CORE INNER DIAMETER COOLING
(73) Raytheon Technologies Corporation
(72) FEULNER, Matthew R.
MERRY, Brian D.
SHARMA, Om P.
ACKERMANN, William K.
CHANDLER, Jesse M.
SUCIU, Gabriel L.
(31) 201514967518
(32) 14.12.2015
(33) United States of America

(51) F02D 35/02
F02D 41/40
(11) EP3674532
(21) EP19217517.2
(47) 26.01.2022
(22) 18.12.2019
(54) CONTROL DEVICE FOR COMPRESSION IGNITION ENGINE, COMPRESSION IGNITION ENGINE, VEHICLE, METHOD OF CONTROLLING COMPRESSION IGNITION ENGINE, AND COMPUTER PROGRAM PRODUCT
(73) Mazda Motor Corporation
(72) KIM, Sangkyu
SHIMO, Daisuke
MATSUO, Takeru
KAKUDA, Yoshie
(31) 2018240611
(32) 25.12.2018
(33) Japan

(51) F02D 41/10
F02B 37/16
F02B 37/20
(11) EP3455481
(21) EP17717371.3
(47) 26.01.2022
(87) EP2017058530
16.11.2017
(22) 10.04.2017
(54) METHOD FOR CONTROLLING THE QUANTITY OF AIR INTRODUCED TO THE INTAKE OF A SUPERCHARGED INTERNAL COMBUSTION ENGINE BY A SINGLE-INLET TURBOCOMPRESSOR
(73) IFP Energies nouvelles
(72) ZACCARDI, Jean-Marc
COLLIOU, Thierry
BAUDRAND, Olivier
(31) 1654191
(32) 11.05.2016
(33) France

(51) F02K 9/96
F02K 9/97
(11) EP3690225

(21) EP20160794.2
(47) 26.01.2022
(22) 04.08.2016
(54) SOLID ROCKET MOTOR HEALTH MONITORING
(73) Aerojet Rocketdyne, Inc.
(72) NOVAK, Scott
(31) 201562248458 P
201562248464 P
201562212476 P
(32) 30.10.2015
30.10.2015
31.08.2015
(33) United States of America
United States of America
United States of America

(51) F02M 25/12
F02M 27/04
F02D 19/06
F02D 41/00
F02D 41/18
F02B 43/10
F02D 41/20
(11) EP3380713
(21) EP16829063.3
(47) 26.01.2022
(87) DE2016100557
01.06.2017
(22) 28.11.2016
(54) METHOD FOR OPERATING AN INTERNAL COMBUSTION ENGINE WITH A GAS MIXTURE SUPPLIED TO THE COMBUSTION AIR AND PRODUCED BY WATER ELECTROLYSIS, AND ASSEMBLY AND ELECTROLYSIS DEVICE FOR CARRYING OUT SAID METHOD
(73) HMT Hydromotive GmbH
(72) GÖBEL, Gerhard
SCHNEIDER, Marcus
TÓTH, György
MANTHEI, Rainer
(31) 102015120545
(32) 26.11.2015
(33) Germany

(51) F02M 26/67
F02M 26/74
(11) EP3683434
(21) EP19217952.1
(47) 26.01.2022
(22) 19.12.2019
(54) EXHAUST RETURN VALVE FOR A COMBUSTION ENGINE
(73) Pierburg GmbH
(72) SIMONS, Norbert
(31) 102019101051
(32) 16.01.2019
(33) Germany

(51) F02M 59/10
F04B 11/00
F02M 55/04
F02M 37/00
F04B 53/16
(11) EP3430261
(21) EP17701506.2
(47) 26.01.2022
(87) EP2017051651
21.09.2017
(22) 26.01.2017
(54) HIGH-PRESSURE PUMP HAVING A FLUID TYPE PULSATION DAMPENER
(73) Robert Bosch GmbH
(72) KEILBACH, Daniel
(31) 102016204128
(32) 14.03.2016
(33) Germany

(51) F02P 5/15
F02P 7/067
F02P 9/00
F02P 5/152
F02P 3/04
F02N 3/04
F02D 41/00
F02P 5/155
(11) EP2221471
(21) EP10153230.7
(47) 26.01.2022
(22) 10.02.2010
(54) CONTROL APPARATUS FOR INTERNAL COMBUSTION ENGINE
(73) Hitachi Astemo, Ltd.
(72) Ishikawa, Shinichi
Tokugawa, Kazuhito
(31) 2009055423
2009055422
2009037461
2009037460
(32) 09.03.2009
09.03.2009
20.02.2009
20.02.2009
(33) Japan
Japan
Japan
Japan

(51) F03B 13/26
E02B 7/00
F03B 17/02
E02B 9/08
(11) EP3669070
(21) EP18846005.9
(47) 26.01.2022
(87) US2018000147
21.02.2019
(22) 15.08.2018
(54) INTEGRATED SYSTEM FOR OPTIMAL EXTRACTION OF HEAD-DRIVEN TIDAL ENERGY WITH MINIMAL OR NO ADVERSE ENVIRONMENTAL EFFECTS
(73) The University of North Florida Board of Trustees
(72) KOPP, Brian, Thomas
VIEIRA, Michelle, Ann
RESIO, Donald, Thomas
EL SAFTY, Abdallah Walid Mohamed, Kamal
(31) 201762545720 P
(32) 15.08.2017
(33) United States of America

(51) F03B 17/00
F03D 9/28
F03D 9/25
F03B 17/02
F04F 1/18
(11) EP3676491
(21) EP18850618.2
(47) 26.01.2022
(87) US2018048413
07.03.2019
(22) 28.08.2018
(54) AIR-DRIVEN GENERATOR
(73) Maynard, Mark, J.
(72) Maynard, Mark, J.
(31) 201762550836 P
(32) 28.08.2017
(33) United States of America

(51) F03C 2/30
B60G 17/00
F04C 2/344
F04C 14/22
F16F 9/00
(11) EP3653869
(21) EP19209543.8
(47) 26.01.2022
(22) 15.11.2019
(54) SHOCK ABSORBER
(73) AISIN SEIKI KABUSHIKI KAISHA
(72) KOMATSU, Satoshi
ONO, Hisashi
TAKASU, Katsuhiko
(31) 2019152632
2018215638
2018215637
(32) 23.08.2019
16.11.2018
16.11.2018
(33) Japan
Japan
Japan

(51) F03D 1/06
G01M 5/00
(11) EP2659133
(21) EP11815443.4
(47) 26.01.2022
(87) EP2011073244
05.07.2012
(22) 19.12.2011
(54) WIND TURBINE BLADE WITH CROSS-SECTIONAL SENSORS
(73) LM WP Patent Holding A/S
(72) MORTENSEN, Ivan Engmark
LINDBY, Torben
(31) 10197347
(32) 30.12.2010
(33) European Patent Office (EPO)

(51) F03D 7/02
F03D 13/35
(11) EP3710693
(21) EP18819190.2
(47) 26.01.2022
(87) FR2018052849
23.05.2019
(22) 15.11.2018
(54) SYSTEM AND METHOD FOR DIAGNOSING A ROTOR UNBALANCE OF A WIND TURBINE
(73) Sereema
(72) PINTO, Bruno
MICHEL, Kevin
IMBERT, Jérôme
(31) 1760715
(32) 15.11.2017
(33) France

(51) F03D 9/34

F03D 9/41
F03D 1/04
F03D 9/35
(11) EP3433489
(21) EP17769181.3
(47) 26.01.2022
(87) AU2017050201
28.09.2017
(22) 08.03.2017
(54) WIND TOWER
(73) Puta, Václav
(72) Puta, Václav
(31) 2016901049
(32) 21.03.2016
(33) Australia

(51) F03D 13/10
F03D 13/40
F03D 80/50
F03D 80/70
F16C 39/02
F16C 41/04
(11) EP3795822
(21) EP19198915.1
(47) 26.01.2022
(22) 23.09.2019
(54) ROTOR HUB SUPPORTING TOOL, WIND POWER PLANT HEAD AND METHOD FOR SUPPORTING A ROTOR HUB OF A WIND DRIVEN POWER PLANT
(73) Siemens Gamesa Renewable Energy Deutschland GmbH
(72) Rogg, Andreas

(51) F03D 13/10
F03D 80/50
(11) EP3343023
(21) EP17842352.1
(47) 26.01.2022
(87) CN2017091033
08.03.2018
(22) 30.06.2017
(54) DEVICE AND METHOD FOR ROTATING WIND TURBINE ROTOR AND WIND TURBINE
(73) Jiangsu Goldwind Science & Technology Co., Ltd.
(72) ZHANG, Zhu
LI, Ye
ZHANG, Xingang
ZHAO, Xiang
LI, Yanhui
LI, Huixun
(31) 201610765934
(32) 29.08.2016
(33) China

(51) F03D 17/00
F03D 7/04
F03D 7/02
(11) EP3406897
(21) EP17172443.8
(47) 26.01.2022
(22) 23.05.2017
(54) SYSTEM AND METHOD FOR DETERMINING WIND FARM WAKE LOSS
(73) General Electric Company
(72) AMBEKAR, Akshay Krishnamurty
KERN, Stefan
WILSON, Megan

(51) F04B 1/324
F04B 1/20
F04B 1/2042
F04B 1/2078
(11) EP3617501
(21) EP19194008.9
(47) 26.01.2022
(22) 28.08.2019
(54) HYDRAULIC SYSTEM
(73) Nabtesco Corporation
(72) YAMAGUCHI, Sho
AKAMI, Toshiya
(31) 2018163909
(32) 31.08.2018
(33) Japan

(51) F04B 7/00
F04B 7/02
F04B 15/02
(11) EP2891797
(21) EP14197773.6
(47) 26.01.2022
(22) 12.12.2014
(54) VISCOUS MATERIAL PUMP, ESPECIALLY FOR A MOBILE VISCOUS MATERIAL PUMP
(73) Liebherr-Mischtechnik GmbH
(72) Matter, Jürg
(31) 102013114008
(32) 13.12.2013
(33) Germany

(51) F04B 39/02
(11) EP3819501
(21) EP20205870.7
(47) 26.01.2022
(22) 05.11.2020
(54) COMPRESSOR AND MANUFACTURING METHOD THEREOF
(73) LG Electronics Inc.
(72) KIM, Donghan
(31) 20190142295
(32) 08.11.2019
(33) Korea (Republic)

(51) F04C 2/12
F04C 15/00
(11) EP3770433
(21) EP20181329.2
(47) 26.01.2022
(22) 22.06.2020
(54) MOTOR-DRIVEN ROOTS PUMP
(73) Kabushiki Kaisha Toyota Jidoshokki
(72) TAKANI, Naoki
KASHIWA, Shintaro
MASAKI, Daisuke
SHINODA, Fumiya
HIRANO, Takayuki
(31) 2019136205
(32) 24.07.2019
(33) Japan

(51) F04C 14/18
F04C 14/22
F04C 2/18
(11) EP3173624
(21) EP16206318.4
(47) 26.01.2022
(22) 09.07.2008
(54) PRESSURE PUMP WITH ADJUSTMENT VALVE FOR ADJUSTING THE SUPPLY VOLUME
(73) Schwäbische Hüttenwerke Automotive GmbH
(72) Bohner, Jürgen
Lamparski, Christof
(31) 102007033146
(32) 13.07.2007
(33) Germany

(51) F04C 25/02
F04C 28/28
F04C 29/00
F04C 18/16
F04C 18/12
(11) EP3064775
(21) EP15157105.6
(47) 26.01.2022
(22) 02.03.2015
(54) Vacuum pump and method for detecting a contact between at least one rotor and a stator of a vacuum pump
(73) Pfeiffer Vacuum GmbH
(72) Huber, Peter

(51) F04D 13/02
F04D 13/06
F04D 29/046
F04D 29/06
F04D 29/10
F04D 29/42
F04D 29/58
(11) EP3433496
(21) EP17717633.6
(47) 26.01.2022
(87) EP2017056881
28.09.2017
(22) 22.03.2017
(54) MAGNETIC COUPLING PUMP
(73) Klaus Union GmbH & Co. KG
(72) ESCHNER, Thomas
(31) 102016105309
(32) 22.03.2016
(33) Germany

(51) F04D 13/06
F04D 29/22
F04D 29/24
(11) EP3115613
(21) EP16176902.1
(47) 26.01.2022
(22) 29.06.2016
(54) ELECTRICALLY DRIVEN PUMP
(73) Zhejiang Sanhua Automotive Components Co., Ltd.
(72) NIU, Lianjing
BAO, Junfeng
ZHANG, Rongrong
ZHANG, Junchao
FANG, Chen
(31) 201510393337
(32) 06.07.2015
(33) China

(51) F04D 25/06
F04D 29/42
(11) EP3767111
(21) EP19196756.1
(47) 26.01.2022
(22) 11.09.2019
(54) FAN AND COVER FOR FAN

(73) Elektrosil GmbH
(72) Bubke, Niels
(31) 19186641
(32) 16.07.2019
(33) European Patent Office (EPO)

(51) F04D 29/08
F04D 29/42
F04D 29/44
F04D 29/62
(11) EP3847373
(21) EP19795539.6
(47) 26.01.2022
(87) EP2019079392
22.05.2020
(22) 28.10.2019
(54) BLOWER DEVICE COMPRISING A CLOSED TRIANGULAR SEALING GROOVE
(73) ebm-papst Landshut GmbH
(72) PETRYSZAK, Christian
SCHMIDT, Tobias
(31) 102018128255
(32) 12.11.2018
(33) Germany

(51) F04D 29/42
F04D 29/70
B60H 1/00
(11) EP3578826
(21) EP19175162.7
(47) 26.01.2022
(22) 17.05.2019
(54) BLOWER
(73) Valeo Japan Co., Ltd.
(72) ARAKI, Daisuke
(31) 2018107990
(32) 05.06.2018
(33) Japan

(51) F04D 29/54
(11) EP3617529
(21) EP19188756.1
(47) 26.01.2022
(22) 29.07.2019
(54) FAN FRAME OF A MOTOR VEHICLE
(73) Brose Fahrzeugteile SE & Co. Kommanditgesellschaft, Würzburg
(72) FINDEISEN, Antje
SCHÄFER, Tilman
(31) 102018214782
(32) 30.08.2018
(33) Germany

(51) F04F 5/20
F04F 5/44
F04F 5/52
(11) EP3760880
(21) EP20190316.8
(47) 26.01.2022
(22) 12.06.2019
(54) VACUUM EJECTOR AND SEAL VALVE UNIT
(73) SMC Corporation
(72) NAKAYAMA, Toru
USHIJIMA, Yasuhiro
SUGANO, Koji
(31) 2018114626
(32) 15.06.2018
(33) Japan

(51) F15B 7/00
F15B 11/17
F15B 20/00
(11) EP3159549
(21) EP16188813.6
(47) 26.01.2022
(22) 14.09.2016
(54) DEVICE FOR RECOVERY OF HYDRAULIC ENERGY IN A WORK DEVICE AND CORRESPONDING WORK DEVICE
(73) Liebherr-France SAS
(72) Helbling, Frank
Landmann, Thomas
(31) 102016003390
102015013768
(32) 18.03.2016
23.10.2015
(33) Germany
Germany

(51) F15B 11/028
E02F 3/43
E02F 9/22
F15B 11/02
F15B 11/044
F15B 11/08
F15B 11/17
E02F 9/20
(11) EP3438468
(21) EP16897038.2
(47) 26.01.2022
(87) JP2016084103
05.10.2017
(22) 17.11.2016
(54) CONSTRUCTION MACHINE WITH SPEED-UP CONTROL SECTION
(73) Hitachi Construction Machinery Co., Ltd.
(72) MORIKI Hidekazu
TANAKA Hiroaki
TSURUGA Yasutaka
SAKAMOTO Hiroshi
(31) 2016070130
(32) 31.03.2016
(33) Japan

(51) F15B 11/032
(11) EP3859166
(21) EP20154833.6
(47) 26.01.2022
(22) 31.01.2020
(54) HYDRAULIC PRESSURE AMPLIFIER ARRANGEMENT
(73) miniBOOSTER HYDRAULICS A/S
(72) Clausen, Peter Johan Mads
Espersen, Christen
Wollesen, Andreas
Petersen, Jan
Hansen, Leif
Thomsen, Jimmy
Leonhard Wasmer, Peter
Bollmann, Thyge

(51) F15B 15/14
F16J 1/12
(11) EP3491254
(21) EP17768343.0
(47) 26.01.2022
(87) DE2017000221
01.02.2018
(22) 25.07.2017
(54) PISTON UNIT OF A HYDRAULIC CYLINDER
(73) Bümach Engineering International B.V.
(72) BUETER, Josef
(31) 202016004643 U
(32) 28.07.2016
(33) Germany

(51) F15B 19/00
F16K 37/00
(11) EP3529500
(21) EP17787735.4
(47) 26.01.2022
(87) US2017055117
26.04.2018
(22) 04.10.2017
(54) METHODS AND APPARATUS OF TESTING A SOLOENOID VALVE OF AN EMERGENCY VALVE VIA A POSITIONER
(73) Fisher Controls International LLC
(72) SNOWBARGER, Jimmie, L.
JELKEN, Shannon
GRUMSTRUP, Bruce, F.
JUNK, Kenneth
(31) 201615298731
(32) 20.10.2016
(33) United States of America

(51) F15B 20/00
F15B 11/08
F15B 19/00
(11) EP3438470
(21) EP17775553.5
(47) 26.01.2022
(87) JP2017013646
05.10.2017
(22) 31.03.2017
(54) FAILURE DETECTION DEVICE
(73) Tadano Ltd.
(72) KAWABUCHI, Naoto
FUKUMORI, Yasuhiro
YOSHIDA, Naofumi
(31) 2016070993
(32) 31.03.2016
(33) Japan

(51) F15B 20/00
F15B 15/20
E04G 21/04
(11) EP3443182
(21) EP17720371.8
(47) 26.01.2022
(87) EP2017058510
19.10.2017
(22) 10.04.2017
(54) ELECTROHYDRAULIC CONTROL CIRCUIT FOR A LARGE MANIPULATOR
(73) Schwing GmbH
(72) SCHWEDHELM, Karl-Heinz
VIERKOTTEN, Reiner
HENIKL, Johannes
PRZEBINDA, Peter
LEHMANN, Andreas
(31) 102016106616
(32) 11.04.2016
(33) Germany

(51) F16B 7/04
F16B 11/00
F16B 21/20

(11) EP3508738
(21) EP17845459.1
(47) 26.01.2022
(87) CN2017099753
08.03.2018
(22) 30.08.2017
(54) LOCKING DEVICE
(73) Beijing Surgerii Technology Co., Ltd.
(72) DONG, Tianlai
LIANG, Bo
ZHAO, Jiangran
XU, Kai
DAI, Zhengchen
YANG, Zhixiong
(31) 201610797613
(32) 31.08.2016
(33) China

(51) F16B 19/05
B64D 45/02
F16B 19/00
F16B 33/00
F16B 37/08
F16B 39/02
(11) EP3546768
(21) EP19162430.3
(47) 26.01.2022
(22) 13.03.2019
(54) ELECTROMAGNETIC EFFECT PROTECTIVE FASTENER WITH SWAGEABLE TERMINATION BODY
(73) The Boeing Company
(72) Morden, Sean D.
Brockway, Monica J.
Chan, Kwok-Tung
Simpson, Blake A.
Sisco, Tanni
(31) 201815941676
(32) 30.03.2018
(33) United States of America

(51) F16B 21/00
F16B 21/02
F16B 21/12
(11) EP3759363
(21) EP19705970.2
(47) 26.01.2022
(87) EP2019054231
06.09.2019
(22) 20.02.2019
(54) DEVICE FOR POSITIONING TWO ELEMENTS IN A GIVEN POSITION, AND VEHICLE EQUIPPED WITH SAID POSITIONING DEVICE
(73) Airbus Defence and Space GmbH
(72) DESCHEEMAEKER, Denis
RAPPSILBER, Michael
FEDERHEN, Jens
(31) 1851832
(32) 02.03.2018
(33) France

(51) F16B 31/02
F16B 11/00
(11) EP3728874
(21) EP18825631.7
(47) 26.01.2022
(87) EP2018084956
27.06.2019
(22) 14.12.2018
(54) FASTENER ASSEMBLY
(73) Fairchild Fasteners Europe - VSD GmbH
(72) RÖSING, Jürgen
(31) PCT/EP2017/083393
(32) 18.12.2017
(33) World Intellectual Property Office (WIPO)

(51) F16C 3/02
B64C 13/28
F03D 15/00
F16F 15/10
F16D 1/06
(11) EP3734091
(21) EP19461531.6
(47) 26.01.2022
(22) 02.05.2019
(54) VIBRATION RESISTANT TORSIONALLY COMPLIANT TRANSMISSION SHAFT
(73) Goodrich Corporation
(72) Krulak, Maciej
Kielbowicz, Dariusz

(51) F16C 17/02
F16C 17/04
F16C 17/24
F16C 33/08
F16C 41/00
F16C 43/02
(11) EP3730809
(21) EP19210441.2
(47) 26.01.2022
(22) 20.11.2019
(54) FOIL BEARING WITH FOIL BEARING PROGNOSTIC CONDITION SENSOR
(73) Hamilton Sundstrand Corporation
(72) MARTIN, Luke
(31) 201916396255
(32) 26.04.2019
(33) United States of America

(51) F16C 17/03
F16C 17/02
F16C 17/04
F16C 17/10
F16C 19/04
F16C 19/10
F16C 19/14
F16C 19/24
F16C 19/30
F16C 19/34
(11) EP3765734
(21) EP19720398.7
(47) 26.01.2022
(87) EP2019058882
24.10.2019
(22) 09.04.2019
(54) METHOD FOR REFURBISHING A ROTARY BEARING, BEARING REFURBISHMENT ARRANGEMENT AND WIND TURBINE
(73) Siemens Gamesa Renewable Energy A/S
(72) OLESEN, Dennis
THORHAUGE, Morten
SOEE, Jeppe
FRYDENDAL, Niels Karl
THOMSEN, Kim
KANSTRUP, Troels
(31) 18167871
(32) 18.04.2018
(33) European Patent Office (EPO)

(51) F16C 17/24
F16C 29/00
F16C 29/02
F16C 41/00
(11) EP3864308
(21) EP19786540.5
(47) 26.01.2022
(87) EP2019077233
16.04.2020
(22) 08.10.2019
(54) DEVICE AND METHOD FOR DETERMINING THE LOCATION AND/OR POSITION OF A ROLLER IN A ROLLER FRAME
(73) SMS Group GmbH
(72) MÜLLER, Torsten
ALKEN, Johannes
HUGE, Thorsten
KIPPING, Matthias
HASCHKE, Thomas
(31) 102018217131
(32) 08.10.2018
(33) Germany

(51) F16C 29/00
B60N 2/07
(11) EP3548758
(21) EP17808419.0
(47) 26.01.2022
(87) EP2017080835
07.06.2018
(22) 29.11.2017
(54) SLIDING ASSEMBLY
(73) Saint-Gobain Performance Plastics Pampus GmbH
(72) HAINES, Paul
PLIOSKA, Lukas
ITTA, Florian
GREINWALD, Thomas
(31) 201762447189 P
201662428416 P
(32) 17.01.2017
30.11.2016
(33) United States of America
United States of America

(51) F16C 32/04
F04D 19/04
(11) EP3321528
(21) EP16821313.0
(47) 26.01.2022
(87) JP2016069573
12.01.2017
(22) 01.07.2016
(54) ELECTROMAGNET UNIT, MAGNETIC BEARING DEVICE, AND VACUUM PUMP
(73) Edwards Japan Limited
(72) KAWASHIMA, Toshiaki
(31) 2015135951
(32) 07.07.2015
(33) Japan

(51) F16C 33/10
B22F 5/00
F16C 17/02
F16C 33/12
(11) EP3534023
(21) EP17863566.0
(47) 26.01.2022
(87) JP2017038745
03.05.2018

(22) 26.10.2017
(54) OIL-IMPREGNATED SINTERED BEARING
(73) Diamet Corporation
(72) TAKEZOE Shinichi
TAMURA Yoshiki
(31) 2016209695
(32) 26.10.2016
(33) Japan

(51) F16C 33/38
F16C 19/16
(11) EP3744992
(21) EP19743867.4
(47) 26.01.2022
(87) JP2019002574
01.08.2019
(22) 25.01.2019
(54) ANGULAR BALL BEARING
(73) NSK LTD.
(72) KENMOCHI Kenta
SOGA Shuji
KATSUNO Yoshiaki
(31) 2018011353
(32) 26.01.2018
(33) Japan

(51) F16C 35/02
F16C 35/073
F16B 21/18
(11) EP3680501
(21) EP19212834.6
(47) 26.01.2022
(22) 02.12.2019
(54) RETAINING RING ASSEMBLIES
(73) Hamilton Sundstrand Corporation
(72) FRANKLIN, Mark J.
FINKE, Aaron M.
BORTOLI, Stephen Michael
(31) 201916247184
(32) 14.01.2019
(33) United States of America

(51) F16D 1/097
F04D 29/20
(11) EP2066910
(21) EP07794199.5
(47) 26.01.2022
(87) SE2007050589
03.04.2008
(22) 29.08.2007
(54) A DEVICE FOR INTERCONNECTING A FIRST ELEMENT AND A SECOND ELEMENT AS WELL AS A PUMP COMPRISING SUCH A DEVICE
(73) Xylem IP Holdings LLC
(72) HALLGREN, Gert
(31) 0602040
(32) 29.09.2006
(33) Sweden

(51) F16D 1/10
(11) EP3597948
(21) EP18461584.7
(47) 26.01.2022
(22) 20.07.2018
(54) AXIAL SHAFT COUPLING
(73) Hamilton Sundstrand Corporation
(72) CIS, Marcin
KIELBOWICZ, Dariusz

(51) F16D 28/00
F16D 48/06
(11) EP3755916
(21) EP18745825.2
(47) 26.01.2022
(87) EP2018065618
19.12.2019
(22) 13.06.2018
(54) ELECTRICALLY DRIVEN CLUTCH ACTUATOR
(73) KA Group AG
(72) ENGMAN, Jimmy

(51) F16D 55/227
F16D 65/097
F16D 65/40
(11) EP3253984
(21) EP16702963.6
(47) 26.01.2022
(87) EP2016052469
11.08.2016
(22) 05.02.2016
(54) DISK BRAKE COMPRISING AT LEAST ONE SPRING FOR THE ELASTIC RETURN OF A BRAKE PAD, ELASTIC RETURN SPRING, AND REPLACEMENT KIT
(73) Hitachi Astemo France
(72) MONTEGU, Didier
FOUCOIN, Alexandre
LABARRE, Xavier
(31) 1551607
1550928
(32) 25.02.2015
06.02.2015
(33) France
France

(51) F16D 65/12
F16D 55/36
(11) EP3715663
(21) EP19216315.2
(47) 26.01.2022
(22) 13.12.2019
(54) SEGMENTED RIVETLESS WEAR LINER WITH STRUCTURAL CARBON OR CERAMIC CORE
(73) Goodrich Corporation
(72) KURUP, Ramesh
O'NEIL, Matthew R.
(31) 201916367834
(32) 28.03.2019
(33) United States of America

(51) F16D 69/02
C08L 61/06
C08L 61/34
C08L 77/10
(11) EP3088764
(21) EP14873654.9
(47) 26.01.2022
(87) JP2014081821
02.07.2015
(22) 02.12.2014
(54) FRICTION MATERIAL
(73) Nisshinbo Brake Inc.
(72) YAGUCHI, Mitsuaki
KAJI, Shinya
(31) 2013265396
(32) 24.12.2013
(33) Japan

(51) F16F 13/14
B61F 15/20
(11) EP3737875
(21) EP18795326.0
(47) 26.01.2022
(87) EP2018078474
18.07.2019
(22) 18.10.2018
(54) HYDRAULIC BEARING BUSH
(73) ContiTech Luftfedersysteme GmbH
(72) GROTSCH, Sara
SANZ, Andre
(31) 102018200344
(32) 11.01.2018
(33) Germany

(51) F16G 5/20
D06M 15/41
D06M 15/693
F16G 5/00
F16G 5/06
D06M 101/40
(11) EP3650731
(21) EP18828658.7
(47) 26.01.2022
(87) JP2018025406
10.01.2019
(22) 04.07.2018
(54) V-RIBBED BELT
(73) Mitsuboshi Belting Ltd.
(72) MITSUTOMI Manabu
TAMURA Masashi
NISHIYAMA Takeshi
MATSUMURA Hiroshi
(31) 2018122265
2017130977
(32) 27.06.2018
04.07.2017
(33) Japan
Japan

(51) F16G 15/06
(11) EP3376065
(21) EP17161357.3
(47) 26.01.2022
(22) 16.03.2017
(54) CONNECTING PART FOR CHAIN SUSPENSIONS FOR FORMING A CHAIN LOOP ON A CHAIN LINK COMPOSED OF CHAIN ELEMENTS
(73) Pewag Austria GmbH
(72) OSWALD, Bernhard

(51) F16H 1/00
F02K 3/06
F02C 3/107
(11) EP3611398
(21) EP19186685.4
(47) 26.01.2022
(22) 17.07.2019
(54) STABILIZATION BEARING SYSTEM FOR GEARED TURBOFAN ENGINES
(73) Rolls-Royce Deutschland Ltd & Co KG
(72) WALKER, Philip Brian
(31) 102018119828
(32) 15.08.2018
(33) Germany

(51) F16H 1/28
F16H 57/08
F16H 57/04
(11) EP3710727
(21) EP18812236.0

(47) 26.01.2022
(87) FR2018052740
23.05.2019
(22) 06.11.2018
(54) TURBOMACHINE SPEED REDUCER WITH PLANETARY GEAR SET
(73) Safran Transmission Systems
(72) DOMBEK, Alexis, Claude, Michel
(31) 1760850
(32) 17.11.2017
(33) France

(51) F16H 1/36
F02C 7/36
F16H 57/08
(11) EP3800373
(21) EP20194604.3
(47) 26.01.2022
(22) 04.09.2020
(54) EPICYCLICAL GEAR SYSTEM HOUSING ASSEMBLY
(73) Rolls-Royce Corporation
(72) Winely, Mark
Bennett, Brian
(31) 201916592492
(32) 03.10.2019
(33) United States of America

(51) F16H 3/66
(11) EP3312458
(21) EP17191370.0
(47) 26.01.2022
(22) 15.09.2017
(54) MULTI-SPEED PLANETARY TRANSMISSION
(73) Allison Transmission, Inc.
(72) CRAFTON, Drew A.
IRVING, Mitchell
RASZKOWSKI, James
(31) 201615278951
(32) 28.09.2016
(33) United States of America

(51) F16H 13/02
F16H 55/32
B64C 25/40
(11) EP3093528
(21) EP16169219.9
(47) 26.01.2022
(22) 11.05.2016
(54) A DRIVE ROLLER
(73) Safran Landing Systems
(72) LARTIGUE, Norbert
(31) 1554274
(32) 12.05.2015
(33) France

(51) F16H 25/24
F02K 1/76
F16H 25/20
(11) EP3563075
(21) EP17829989.7
(47) 26.01.2022
(87) EP2017084592
05.07.2018
(22) 26.12.2017
(54) ACTUATOR WITH PASSIVE LOCKING
(73) Safran Electronics & Defense
(72) OMNES, Pascal
BASTIDE, Christophe
(31) 1663574
1663573
1663572
1663571
(32) 30.12.2016
30.12.2016
30.12.2016
30.12.2016
(33) France
France
France
France

(51) F16H 63/34
F16H 63/38
F16H 61/28
(11) EP3190315
(21) EP16206376.2
(47) 26.01.2022
(22) 22.12.2016
(54) CONTROL APPARATUS FOR VEHICLE DRIVING SYSTEM
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
(72) TANAKA, Takaaki
YOSHIKAWA, Masato
KOBAYASHI, Nobufusa
(31) 2015252565
(32) 24.12.2015
(33) Japan

(51) F16J 15/3268
G01F 15/18
F16J 15/06
(11) EP3783248
(21) EP20187890.7
(47) 26.01.2022
(22) 27.07.2020
(54) PROCESS CONNECTION WITH ANNULAR MOULDED SEAL
(73) SICK AG
(72) Schätzle, Sebastian
Scholder, Jochen
(31) 102019122624
(32) 22.08.2019
(33) Germany

(51) F16J 15/34
F16L 27/08
G01M 3/00
G01M 13/005
(11) EP3698073
(21) EP18782391.9
(47) 26.01.2022
(87) EP2018076757
25.04.2019
(22) 02.10.2018
(54) MECHANICAL SEAL FOR SEALING A CHANNEL WHICH CONDUCTS A FLUID AND/OR A CHAMBER AND METHOD FOR MONITORING THE WEAR OF A MECHANICAL SEAL
(73) Christian Maier GmbH & Co. KG Maschinenfabrik
(72) SCHWENK, Günther
(31) 102017218711
(32) 19.10.2017
(33) Germany

(51) F16K 31/385
(11) EP3679282
(21) EP18731419.0
(47) 26.01.2022
(87) EP2018065574
14.03.2019
(22) 13.06.2018
(54) VALVE ARRANGEMENT
(73) Neoperl GmbH
(72) TEMPEL, Marc
BIAN, Yichao
(31) 202017105426 U
(32) 07.09.2017
(33) Germany

(51) F16L 21/08
(11) EP3500786
(21) EP17754359.2
(47) 26.01.2022
(87) EP2017070974
01.03.2018
(22) 18.08.2017
(54) CLAWED SECURING MEANS
(73) NORMA Germany GmbH
(72) LECBYCH, Miroslav
KRÄMER, Markus
(31) 102016115536
(32) 22.08.2016
(33) Germany

(51) F16L 33/22
(11) EP3728924
(21) EP18834154.9
(47) 26.01.2022
(87) US2018066321
27.06.2019
(22) 18.12.2018
(54) JOINING METAL FITTINGS TO A POLYMER COMPOSITE PIPE
(73) Subsea 7 (US) LLC
(72) FIRMIAN, Michael
(31) 201721299
(32) 19.12.2017
(33) United Kingdom

(51) F16L 37/091
(11) EP3534050
(21) EP19159003.3
(47) 26.01.2022
(22) 26.01.2017
(54) COUPLING BODY FOR A PIPE CONNECTOR, IN PARTICULAR FOR PLASTIC PIPES
(73) Voss Automotive GmbH
(72) HAGEN, Harald
WASCHKEWITZ, Markus
FRANGENBERG, Markus
RÖHRIG, Lukas
(31) 102016101533
(32) 28.01.2016
(33) Germany

(51) F16L 37/098
F16B 7/04
F16L 37/088
F16L 37/133
F16L 37/084
(11) EP3460308
(21) EP17799148.6
(47) 26.01.2022
(87) JP2017016572
23.11.2017
(22) 26.04.2017
(54) LOCKING MECHANISM FOR TUBULAR BODY
(73) Nifco Inc.
(72) NEZU Mikio
(31) 2016101191

(32) 20.05.2016
(33) Japan

(51) F16L 37/23
F16L 37/34
(11) EP3377796
(21) EP16795043.5
(47) 26.01.2022
(87) EP2016077528
26.05.2017
(22) 14.11.2016
(54) COUPLING ELEMENT FOR A COUPLING FOR CONNECTING PRESSURE MEDIUM LINES
(73) U.M. Gewerbeimmobilien GmbH & Co. KG
(72) LAUFER, Klaus
GINCZEK, Christoph
(31) 102015222640
(32) 17.11.2015
(33) Germany

(51) F16L 53/00
H05B 3/56
H05B 3/58
(11) EP3436732
(21) EP17721955.7
(47) 26.01.2022
(87) EP2017000395
05.10.2017
(22) 31.03.2017
(54) PRE-FABRICATED HEATABLE MEDIA LINE
(73) Voss Automotive GmbH
(72) SCHWARZKOPF, Otfried
ETSCHEID, Tobias
(31) 102016003706
(32) 31.03.2016
(33) Germany

(51) F16M 11/22
A47B 37/02
A47B 91/04
F16F 15/08
(11) EP2501982
(21) EP10830985.7
(47) 26.01.2022
(87) CA2010001782
26.05.2011
(22) 16.11.2010
(54) VIBRATION DAMPING STAND
(73) D Morrison Consulting Inc.
(72) DICKIE, Robert, G.
MORRISON, David
(31) 620174
(32) 17.11.2009
(33) United States of America

(51) F16N 7/36
F01D 25/18
F02C 7/32
F16H 57/027
F16H 57/04
(11) EP3179058
(21) EP16202519.1
(47) 26.01.2022
(22) 06.12.2016
(54) VENTED GEAR SPLINE LUBRICATION
(73) Hamilton Sundstrand Corporation
(72) SLAYTER, Matthew Allen
BLEWETT, Michael R.
(31) 201514961086
(32) 07.12.2015
(33) United States of America

(51) F17C 1/00
F17C 13/00
B60K 15/03
(11) EP3175166
(21) EP15826628.8
(47) 26.01.2022
(87) US2015041410
04.02.2016
(22) 21.07.2015
(54) COMPOSITE PRESSURE TANK BOSS MOUNTING WITH PRESSURE RELIEF
(73) Quantum Fuel Systems LLC
(72) WARNER, Mark
LEAVITT, Mark
REA, David
(31) 201414444958
(32) 28.07.2014
(33) United States of America

(51) F17C 5/04
F17C 7/00
(11) EP3803188
(21) EP19732545.9
(47) 26.01.2022
(87) EP2019064496
12.12.2019
(22) 04.06.2019
(54) METHOD AND SYSTEM FOR STORAGE AND TRANSPORT OF LIQUEFIED PETROLEUM GASES
(73) Wärtsilä Gas Solutions Norway AS
(72) DYRLAND, Leidulf
GRØNNÆSS, Lars
SKJERVEN, Øyvind
(31) 20180755
(32) 04.06.2018
(33) Norway

(51) F21S 41/141
F21S 41/145
F21S 41/147
F21S 41/151
F21S 41/155
F21S 41/16
F21S 41/24
F21S 41/20
F21S 41/33
F21S 43/13
F21S 43/14
F21S 43/145
F21S 43/237
F21S 43/239
F21S 43/243
F21S 43/251
F21S 43/31
F21S 43/40
B60Q 1/00
F21S 43/20
G02B 3/00
G02B 3/08
(11) EP3169547
(21) EP15738622.8
(47) 26.01.2022
(87) EP2015066087
21.01.2016
(22) 14.07.2015
(54) VEHICLE LIGHTING MODULE
(73) Lumileds LLC
(72) WU, Ping
(31) PCT/CN2014/000673
14177937
(32) 15.07.2014
22.07.2014
(33) World Intellectual Property Office (WIPO)
European Patent Office (EPO)

(51) F21S 41/155
F21S 41/19
F21S 43/145
F21S 43/19
F21Y 115/15
(11) EP3447369
(21) EP18190246.1
(47) 26.01.2022
(22) 22.08.2018
(54) VEHICLE LAMP
(73) STANLEY ELECTRIC CO., LTD.
(72) ANO, Koichiro
CHIKAMA, Hiroyuki
IKEDA, Kai
(31) 2017160186
(32) 23.08.2017
(33) Japan

(51) F21S 45/43
F21S 45/47
F21V 29/67
F21V 29/76
F21V 29/80
(11) EP3561375
(21) EP18382297.2
(47) 26.01.2022
(22) 27.04.2018
(54) COOLING DEVICE FOR AN AUTOMOTIVE LUMINOUS DEVICE
(73) VALEO ILUMINACION,
(72) ANDRES, Alvaro
INFANTE, Sergio
RUIZ, Francisco
TUDELA, Santos
LOBATO, Miguel-Angel
MARTINEZ ARIAS, Borja

(51) F21S 45/43
F21S 45/60
B60H 1/00
B60H 1/22
(11) EP3336414
(21) EP16204296.4
(47) 26.01.2022
(22) 15.12.2016
(54) AUTOMOTIVE HEADLIGHT DEFOGGING/DEFROSTING
(73) FCA Italy S.p.A.
(72) GIROTTO, Emanuele
BEDUSCHI, Roberto
SAMMAROME, Angelo

(51) F21V 5/00
G02B 3/00
G02B 5/02
G02B 19/00
(11) EP3256775
(21) EP16704822.2
(47) 26.01.2022
(87) EP2016052800
18.08.2016
(22) 10.02.2016
(54) METHOD OF MANUFACTURING AN INJECTION MOLDING TOOL AND

METHOD OF MANUFACTURING AN OPTICAL ELEMENT
(73) Zumtobel Lighting GmbH
(72) SCHWÄRZLER, Erich
EBNER, Stephan
(31) 102015202515
(32) 12.02.2015
(33) Germany

(51) F21V 7/00
F21V 23/04
B60Q 1/26
F21S 10/06
B60Q 1/52
F21S 9/02
F21V 21/096
F21Y 115/10
F21W 111/00
(11) EP3473495
(21) EP17812809.6
(47) 26.01.2022
(87) ES2017070431
21.12.2017
(22) 15.06.2017
(54) MOVABLE EMERGENCY LIGHT DEVICE
(73) Netun Solutions, S.L.
(72) TORRE SARMIENTO, Jorge
(31) 201630780 U
(32) 16.06.2016
(33) Spain

(51) F21V 8/00
(11) EP3224536
(21) EP14907073.2
(47) 26.01.2022
(87) CN2014092012
02.06.2016
(22) 24.11.2014
(54) LIGHT EMISSION STRUCTURE AND DEVICE WITH LIGHT EMISSION STRUCTURE
(73) InterDigital Madison Patent Holdings, SAS
(72) ZHOU, Zuke
HUANG, Wenxin
QIN, George

(51) F21V 19/00
F21V 29/503
(11) EP3380784
(21) EP16801493.4
(47) 26.01.2022
(87) EP2016078872
01.06.2017
(22) 25.11.2016
(54) LIGHTING SYSTEM
(73) Engelmann, Christian
(72) Engelmann, Christian
(31) 102015120490
(32) 26.11.2015
(33) Germany

(51) F21V 23/06
F21V 25/00
(11) EP3739260
(21) EP20173973.7
(47) 26.01.2022
(22) 11.05.2020
(54) GROUNDING SPRING FOR LAMP HOUSING
(73) Siteco GmbH
(72) Machatschek, Claudia
(31) 102019112457
(32) 13.05.2019
(33) Germany

(51) F23C 9/00
F23N 3/00
F23N 3/06
F23N 3/08
(11) EP3857124
(21) EP18796746.8
(47) 26.01.2022
(87) IB2018057490
02.04.2020
(22) 27.09.2018
(54) MIXER FOR EXHAUST FUMES RECIRCULATION BURNERS
(73) C.I.B. Unigas S.p.A.
(72) PANCOLINI, Riccardo

(51) F23C 10/18
F22B 31/00
F23M 5/08
F22B 21/02
(11) EP2634484
(21) EP11835637.7
(47) 26.01.2022
(87) CN2011081402
03.05.2012
(22) 27.10.2011
(54) CIRCULATING FLUIDIZED BED BOILER
(73) Institute Of Engineering Thermophysics, Chinese Academy Of Sciences
(72) LV, Qinggang
SUN, Yunkai
SONG, Guoliang
WANG, Dongyu
BAO, Shaolin
GAO, Ming
LI, Shiyuan
(31) 201010531433
(32) 29.10.2010
(33) China

(51) F23D 3/08
(11) EP3036479
(21) EP14837380.6
(47) 26.01.2022
(87) US2014051673
26.02.2015
(22) 19.08.2014
(54) SOLID FUEL BURNING SYSTEM AND METHOD
(73) Masterson Enterprises Inc.
(72) MASTERSON, Daniel J.
(31) 201461967524 P
201361959181 P
(32) 21.03.2014
19.08.2013
(33) United States of America
United States of America

(51) F23D 11/00
F23L 5/02
(11) EP3611432
(21) EP19191221.1
(47) 26.01.2022
(22) 12.08.2019
(54) VEHICLE HEATER
(73) Eberspächer Climate Control Systems GmbH
(72) Grotstollen, Uwe
Findeis, Thorsten
Haefner, Michael
Collmer, Andreas
(31) 102018120030
(32) 17.08.2018
(33) Germany

(51) F23K 5/14
F16K 3/08
(11) EP3828467
(21) EP20382040.2
(47) 26.01.2022
(22) 23.01.2020
(54) REGULATING VALVE FOR A GAS COOKING APPLIANCE, AND GAS COOKING APPLIANCE INCORPORATING SAID REGULATING VALVE
(73) Copreci, S.Coop.
(72) QUEREJETA ANDUEZA, Félix
AYASTUY ARETXAGA, Iñaki
ARRIOLA-BENGOA UNZUETA, Imanol
(31) 19383066
(32) 29.11.2019
(33) European Patent Office (EPO)

(51) F23M 5/00
F23M 5/08
F23R 3/42
F02C 7/12
F02C 7/24
F23R 3/00
(11) EP3084303
(21) EP14871314.2
(47) 26.01.2022
(87) US2014071601
25.06.2015
(22) 19.12.2014
(54) THERMAL MECHANICAL DIMPLE ARRAY FOR A COMBUSTOR WALL ASSEMBLY
(73) Raytheon Technologies Corporation
(72) CHANG, Hoyt Y.
(31) 201361918436 P
(32) 19.12.2013
(33) United States of America

(51) F23N 3/00
F02C 9/18
F02C 9/22
F23N 5/02
(11) EP3447379
(21) EP17188016.4
(47) 26.01.2022
(22) 25.08.2017
(54) METHOD FOR OPERATING A GAS TURBINE PLANT AND GAS TURBINE PLANT
(73) Ansaldo Energia IP UK Limited
(72) FERREIRA-PROVIDAKIS, Theodoros
THERKORN, Dirk
WIECK, Jakob
JAKOBY, Ralf

(51) F23R 3/00
(11) EP3486567
(21) EP18206586.2
(47) 26.01.2022
(22) 15.11.2018
(54) CAN COMBUSTOR FOR A GAS TURBINE AND GAS TURBINE

COMPRISING SUCH A CAN COMBUSTOR
(73) Ansaldo Energia Switzerland AG
(72) BOTHIEN, Mirko Ruben
(31) 17201899
(32) 15.11.2017
(33) European Patent Office (EPO)

(51) F23R 3/00
F23R 3/06
(11) EP3502563
(21) EP18214255.4
(47) 26.01.2022
(22) 19.12.2018
(54) APPARATUS FOR MITIGATING PARTICULATE ACCUMULATION ON A COMBUSTOR WALL OF A GAS TURBINE
(73) Raytheon Technologies Corporation
(72) MOURA, Dennis M.
CLUM, Carey
(31) 201762607599 P
(32) 19.12.2017
(33) United States of America

(51) F23R 3/28
F23D 11/10
(11) EP3462091
(21) EP18196253.1
(47) 26.01.2022
(22) 24.09.2018
(54) COMBUSTION CHAMBER MODULE WITH NOZZLE WITH AXIALLY PROTRUDING AIR GUIDING ELEMENT FOR A NON-STAGED COMBUSTOR DEVICE OF AN ENGINE
(73) Rolls-Royce Deutschland Ltd & Co KG
(72) STAUFER, Max
GERENDAS, Miklos
EGGELS, Ruud
(31) 102017217329
(32) 28.09.2017
(33) Germany

(51) F23R 3/28
F23R 3/34
F23D 11/38
(11) EP3671040
(21) EP19217150.2
(47) 26.01.2022
(22) 17.12.2019
(54) ENHANCEMENT FOR FUEL SPRAY BREAKUP
(73) Raytheon Technologies Corporation
(72) LOVETT, Jeffery A.
(31) 201816222568
(32) 17.12.2018
(33) United States of America

(51) F24C 15/16
H05B 6/64
(11) EP3527896
(21) EP19156359.2
(47) 26.01.2022
(22) 11.02.2019
(54) TELESCOPIC RAIL FOR A MICROWAVE OVEN
(73) Accuride International GmbH
(72) Heffel, Andreas
Raudies, Michael
Reuter, Christina
Krebs, Philipp
(31) 202018100931 U
(32) 20.02.2018
(33) Germany

(51) F24C 15/20
(11) EP3473937
(21) EP18200574.4
(47) 26.01.2022
(22) 16.10.2018
(54) SYSTEM AND METHOD FOR EXTRACTING AND FILTERING OF COOKING FUMES
(73) WESCO AG
(72) Ernst, Beat
(31) 12802017
(32) 19.10.2017
(33) Switzerland

(51) F24D 19/10
(11) EP3367005
(21) EP18155484.1
(47) 26.01.2022
(22) 07.02.2018
(54) HEATING SYSTEM
(73) Robert Bosch GmbH
(72) Holtz, Gerald
(31) 102017203133
(32) 27.02.2017
(33) Germany

(51) F24F 1/01
F24F 13/06
F24F 13/26
(11) EP2573475
(21) EP12005778.1
(47) 26.01.2022
(22) 09.08.2012
(54) Ventilation device in the form of an induction device and method for operating the device
(73) LTG Aktiengesellschaft
(72) Leis, Hermann
Roth, Hans-Werner, Dr.-Ing.
Wagner, Ralf
(31) 102011114335
(32) 21.09.2011
(33) Germany

(51) F24F 1/22
F24F 13/20
(11) EP3667187
(21) EP18843136.5
(47) 26.01.2022
(87) JP2018029405
14.02.2019
(22) 06.08.2018
(54) OUTDOOR UNIT FOR REFRIGERATION DEVICE
(73) Daikin Industries, Ltd.
(72) KOSHIJI, Taichi
KAMITANI, Shigeki
KUROKAWA, Miho
(31) 2017154721
(32) 09.08.2017
(33) Japan

(51) F24F 3/14
F28D 21/00
F28C 1/00
F01K 9/00
(11) EP3027972
(21) EP14748054.5
(47) 26.01.2022
(87) US2014047230
05.02.2015
(22) 18.07.2014
(54) HEAT DISSIPATION SYSTEMS WITH HYGROSCOPIC WORKING FLUID
(73) Energy & Environmental Research Center Foundation
(72) MARTIN, Christopher L.
(31) 201313953332
(32) 29.07.2013
(33) United States of America

(51) F24F 11/00
F25B 49/02
F24F 11/30
(11) EP3430321
(21) EP17767461.1
(47) 26.01.2022
(87) US2017022563
21.09.2017
(22) 15.03.2017
(54) SYSTEM AND METHOD OF CONTROLLING A VARIABLE-CAPACITY COMPRESSOR AND A VARIABLE-CAPACITY FAN USING A TWO-STAGE THERMOSTAT
(73) Emerson Climate Technologies, Inc.
(72) OAKLEY, Michael D.
TRUDEAU, Edward J.
(31) 201715457418
201662309048 P
(32) 13.03.2017
16.03.2016
(33) United States of America
United States of America

(51) F24F 11/46
F24F 11/84
(11) EP3627064
(21) EP19194175.6
(47) 26.01.2022
(22) 28.08.2019
(54) HVAC SYSTEM, METHOD AND CONTROLLER FOR IMPROVING LATENT CAPACITY
(73) Lennox Industries Inc.
(72) GOEL, Rakesh
RAJAN, Siddarth
(31) 201816140075
(32) 24.09.2018
(33) United States of America

(51) F24F 13/14
F24F 1/0011
(11) EP3604963
(21) EP18841222.5
(47) 26.01.2022
(87) CN2018084926
07.02.2019
(22) 27.04.2018
(54) INDOOR AIR-CONDITIONING UNIT
(73) GD Midea Air-Conditioning Equipment Co., Ltd.
(72) LI, Shengqi
ZHU, Maocheng
(31) 201720948669 U
201710642952
(32) 31.07.2017
31.07.2017
(33) China

China
(51) F24F 13/20
F24F 7/08
F24F 12/00
(11) EP3724554
(21) EP18814545.2
(47) 26.01.2022
(87) EP2018083133
20.06.2019
(22) 30.11.2018
(54) VENTILATION DEVICE AND METHOD OF OPERATING THE SAME
(73) SIEGENIA-AUBI KG
(72) GRÄBENER, Julian
STURM, Michael
BECKER, Christoph
BAUER, Marlena
SASSMANNSHAUSEN, Jürgen
(31) 202017006353 U
(32) 11.12.2017
(33) Germany

(51) F24H 1/18
B28D 1/22
(11) EP3222397
(21) EP17000288.5
(47) 26.01.2022
(22) 23.02.2017
(54) SEPARATOR DEVICE APPLICABLE TO MANUAL CERAMIC CUTTERS
(73) Germans Boada, S.A.
(72) Sarmiento, Miguel Angel
(31) 201630338
(32) 21.03.2016
(33) Spain

(51) F24S 10/00
F24S 25/00
H02S 20/23
(11) EP3143345
(21) EP15728578.4
(47) 26.01.2022
(87) GB2015051331
19.11.2015
(22) 06.05.2015
(54) SOLAR-COLLECTOR ROOFING ASSEMBLY
(73) Solar Frame Solutions Limited
(72) WYLIE, Gordon
(31) 201505655
201408725
(32) 01.04.2015
16.05.2014
(33) United Kingdom
United Kingdom

(51) F25B 1/00
F04B 39/06
F04C 29/04
F25B 31/00
F25B 49/00
F25B 13/00
F25B 19/00
(11) EP3406990
(21) EP16886300.9
(47) 26.01.2022
(87) JP2016051581
27.07.2017
(22) 20.01.2016
(54) REFRIGERATION CYCLE DEVICE
(73) Mitsubishi Electric Corporation
(72) HATANAKA, Kensaku
TANAKA, Kosuke
NISHIYAMA, Takumi

(51) F25B 9/00
F25B 19/00
F25B 23/00
(11) EP3511649
(21) EP18020651.8
(47) 26.01.2022
(22) 21.12.2018
(54) METHOD AND DEVICE FOR COOLING A CONSUMER AND SYSTEM WITH CORRESPONDING DEVICE AND CONSUMERS
(73) Linde GmbH
Linde Kryotechnik AG
(72) van Dorth, Wim
Decker, Lutz
Alekseev, Alexander
(31) 18020015
(32) 12.01.2018
(33) European Patent Office (EPO)

(51) F25B 9/00
F25B 23/00
F25B 19/00
(11) EP3511650
(21) EP18020652.6
(47) 26.01.2022
(22) 21.12.2018
(54) METHOD AND DEVICE FOR COOLING A CONSUMER AND SYSTEM WITH CORRESPONDING DEVICE AND CONSUMERS
(73) Linde GmbH
Linde Kryotechnik AG
(72) Alekseev, Alexander
Decker, Lutz
(31) 18020016
(32) 12.01.2018
(33) European Patent Office (EPO)

(51) F25B 9/14
F17C 13/08
F25B 49/00
H01F 6/04
(11) EP2840334
(21) EP14181435.0
(47) 26.01.2022
(22) 19.08.2014
(54) MONITORING METHOD AND COOLING SYSTEM
(73) SUMITOMO HEAVY INDUSTRIES, LTD.
(72) Maruyama, Toru
Hamasaki, Jyunya
(31) 2013169405
(32) 19.08.2013
(33) Japan

(51) F25B 47/02
F25B 13/00
(11) EP3667203
(21) EP18844887.2
(47) 26.01.2022
(87) JP2018029827
14.02.2019
(22) 08.08.2018
(54) REFRIGERATION DEVICE
(73) Daikin Industries, Ltd.
(72) MOROI, Naoki
TOMIYAMA, You
MAKINO, Tatsuya
(31) 2017153079
(32) 08.08.2017
(33) Japan

(51) F25D 17/06
(11) EP3343143
(21) EP16838408.9
(47) 26.01.2022
(87) CN2016086184
02.03.2017
(22) 17.06.2016
(54) REFRIGERATOR
(73) Qingdao Haier Joint Stock Co., Ltd
(72) QI, Feifei
JI, Lisheng
LIU, Jianru
TAO, Haibo
(31) 201510534155
(32) 26.08.2015
(33) China

(51) F25D 17/06
(11) EP3343144
(21) EP16838410.5
(47) 26.01.2022
(87) CN2016086186
02.03.2017
(22) 17.06.2016
(54) REFRIGERATOR
(73) Qingdao Haier Joint Stock Co., Ltd
(72) TAO, Haibo
NIE, Shengyuan
LIU, Jianru
WANG, Ke
(31) 201510534154
(32) 26.08.2015
(33) China

(51) F25D 17/06
(11) EP3505852
(21) EP18214600.1
(47) 26.01.2022
(22) 20.12.2018
(54) REFRIGERATOR COMPRISING AN AIR DUCT
(73) Whirlpool Corporation
(72) Walter, David
Zhang, Yan
Avhale, Amit A.
Clark, Taylor
Spletzer, Richard
Pickles, E. Calvin
Jimenez, Benjamin G.
(31) 201762611725 P
(32) 29.12.2017
(33) United States of America

(51) F25D 21/14
(11) EP2894422
(21) EP14197104.4
(47) 26.01.2022
(22) 10.12.2014
(54) REFRIGERATING SYSTEM AND DISPLAY CABINET HAVING SAME
(73) Carrier Corporation
(72) Zhang, Chao Chang
(31) 201410009421
(32) 09.01.2014
(33) China

(51) F25D 21/14

F25D 17/06
(11) EP3309482
(21) EP17195960.4
(47) 26.01.2022
(22) 11.10.2017
(54) REFRIGERATION DEVICE WITH EVAPORATION CHAMBER AND CONDENSATE DRAIN
(73) BSH Hausgeräte GmbH
(72) Schmidt, Benjamin
(31) 102016220158
(32) 14.10.2016
(33) Germany

(51) F25D 23/02
F25D 29/00
(11) EP3460367
(21) EP16902269.6
(47) 26.01.2022
(87) CN2016112822
23.11.2017
(22) 29.12.2016
(54) REFRIGERATOR AND METHOD FOR MANUFACTURING SAME
(73) Qingdao Haier Joint Stock Co., Ltd
(72) XIA, Enpin
ZHU, Xiaobing
ZHANG, Hao
HE, Guoshun
(31) 201610344072
(32) 20.05.2016
(33) China

(51) F25D 23/06
F25D 21/04
(11) EP3230668
(21) EP15800838.3
(47) 26.01.2022
(87) EP2015077650
16.06.2016
(22) 25.11.2015
(54) A DEVICE FOR A HOUSEHOLD COOLING APPLIANCE
(73) BSH Hausgeräte GmbH
(72) STAHL, Robert
(31) 102014225196
(32) 09.12.2014
(33) Germany

(51) F25D 31/00
B65D 81/18
F25D 3/06
(11) EP3545249
(21) EP17821709.7
(47) 26.01.2022
(87) GB2017053507
31.05.2018
(22) 22.11.2017
(54) PORTABLE CONTAINER WITH TEMPERATURE REGULATOR
(73) Chintala, Sandeep Kumar
(72) Chintala, Sandeep Kumar
(31) 201611039878
(32) 22.11.2016
(33) India

(51) F25J 3/04
(11) EP3105520
(21) EP15706916.2
(47) 26.01.2022
(87) FR2015050355
20.08.2015
(22) 13.02.2015
(54) COLUMN FOR SEPARATING AIR BY CRYOGENIC DISTILLATION, AIR SEPARATION DEVICE COMPRISING SUCH A COLUMN AND METHOD FOR PRODUCING SUCH A COLUMN
(73) L'Air Liquide Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude
(72) SCHMITT, Nathalie
HAIK-BERAUD, Natacha
CAVAGNE, Patrice
DE CAYEUX, Olivier
(31) 1451166
(32) 14.02.2014
(33) France

(51) F41A 9/60
(11) EP3742102
(21) EP19175940.6
(47) 26.01.2022
(22) 22.05.2019
(54) EJECTING DEVICE FOR AMMUNITION LINKS
(73) John Cockerill Defense SA
(72) COLOMINE, Anthony
GRITSKEVITCH, Innokenty

(51) F41A 9/60
F41A 9/37
(11) EP3737906
(21) EP18836237.0
(47) 26.01.2022
(87) EP2018086126
18.07.2019
(22) 20.12.2018
(54) DEVICE FOR DEFLECTING LINKS AND TURRET EQUIPPED WITH SUCH A DEFLECTOR DEVICE
(73) NEXTER Systems
(72) BAERT, Steve
(31) 1800018
(32) 09.01.2018
(33) France

(51) F41A 23/18
B60R 7/14
F41C 33/02
(11) EP3719437
(21) EP20167514.7
(47) 26.01.2022
(22) 01.04.2020
(54) HOLDING DEVICE
(73) Krauss-Maffei Wegmann GmbH & Co. KG
(72) MOCIGEMBA, Jaroslaw
(31) 102019108863
(32) 04.04.2019
(33) Germany

(51) F41B 11/64
F41B 6/00
(11) EP3377839
(21) EP16808928.2
(47) 26.01.2022
(87) EP2016078034
26.05.2017
(22) 17.11.2016
(54) DEVICE FOR PROJECTING A PROJECTILE BY COMPRESSED AIR USING ELECTROMAGNETIC PISTON COMPRESSION, ASSOCIATED CONTROL METHOD
(73) Tokyo Marui Co., Ltd.
(72) LEMARQUAND, Guy
(31) 1561055
(32) 17.11.2015
(33) France

(51) F41G 3/14
F41G 3/06
F41G 3/16
F41G 5/22
(11) EP3377840
(21) EP16778410.7
(47) 26.01.2022
(87) EP2016074169
26.05.2017
(22) 10.10.2016
(54) REMOTELY CONTROLLABLE WEAPON STATION AND METHOD FOR OPERATING A REMOTELY CONTROLLABLE WEAPON STATION
(73) Rheinmetall Defence Electronics GmbH
(72) KROGMANN, Günter
(31) 102015120036
(32) 19.11.2015
(33) Germany

(51) F41G 3/26
G01J 1/04
G09B 9/00
G01V 8/20
F41J 5/02
G01J 1/02
(11) EP3519759
(21) EP17800594.8
(47) 26.01.2022
(87) IB2017055953
05.04.2018
(22) 28.09.2017
(54) AN OPTICAL SENSOR
(73) LACS S.r.l.
(72) MIAN, Sergio
(31) 201600097814
(32) 29.09.2016
(33) Italy

(51) F41G 7/22
G01S 7/495
F41H 11/04
H04K 3/00
F41H 13/00
F42B 4/26
(11) EP3728984
(21) EP17825536.0
(47) 26.01.2022
(87) EP2017084260
27.06.2019
(22) 21.12.2017
(54) IRCM SYSTEM BASED ON COORDINATED MANAGEMENT OF FLARES AND DIRCM SYSTEMS FOR PROTECTION AGAINST IR-GUIDED MISSILES
(73) Elettronica S.p.A.
(72) TAFUTO, Antonio
USAI, Andrea

(51) F42B 5/02
F42B 5/307
F42B 12/48
F42B 14/06

(11) EP3601935
(21) EP18711925.0
(47) 26.01.2022
(87) EP2018056639
27.09.2018
(22) 16.03.2018
(54) ADAPTIVE PROJECTILE
(73) Rheinmetall Waffe Munition GmbH
(72) MAYER, Toni
SCHLUHE, Björn
GUTH, Sven
(31) 102017106333
(32) 23.03.2017
(33) Germany

(51) F42C 17/04
F41A 9/22
F42C 11/06
(11) EP3688403
(21) EP18862385.4
(47) 26.01.2022
(87) SE2018050925
04.04.2019
(22) 12.09.2018
(54) METHOD AND SYSTEM FOR INDUCTIVE PROGRAMMING OF A FUZE IN A MAGAZINE
(73) BAE Systems Bofors AB
(72) LARSSON, Jonas
SÄRNMAR, Thomas
OLSSON, Mikael
(31) 1700228
(32) 28.09.2017
(33) Sweden

(51) G01B 3/56
B21D 5/00
G01B 5/02
B21D 5/02
(11) EP3740734
(21) EP18840020.4
(47) 26.01.2022
(87) AT2018060310
27.06.2019
(22) 19.12.2018
(54) DETERMINING THE BEND DEDUCTION OF A SHEET METAL WORKPIECE TO BE BENT
(73) TRUMPF Maschinen Austria GmbH & Co. KG.
(72) KNEIDINGER, Harald
(31) 510812017
(32) 22.12.2017
(33) Austria

(51) G01B 5/008
G05B 19/401
B23Q 17/22
(11) EP3511121
(21) EP16915730.2
(47) 26.01.2022
(87) JP2016076700
15.03.2018
(22) 09.09.2016
(54) WORKPIECE MEASUREMENT METHOD
(73) Makino Milling Machine Co., Ltd.
(72) STANCU, Alexandra Florentina
KASAI, Koji
ISHII, Kazunari

(51) G01B 9/02
G01B 11/06
G01B 11/16
G01B 11/24
(11) EP2715276
(21) EP12723812.9
(47) 26.01.2022
(87) US2012038942
06.12.2012
(22) 22.05.2012
(54) COMPOUND DOUBLE COMMON-PATH INTERFEROMETER WITH MONOLITHIC OPTICAL CAVITY
(73) Corning Incorporated
(72) LEE, Christopher Alan
FRANKOVICH, John Weston
LITZENBERGER, Michael Joseph
(31) 201113117291
(32) 27.05.2011
(33) United States of America

(51) G01B 9/02
G01M 11/02
G01M 11/00
G01B 11/06
(11) EP3423782
(21) EP15823404.7
(47) 26.01.2022
(87) PL2015050065
23.03.2017
(22) 30.11.2015
(54) DEVICE AND METHOD FOR MEASURING THE PARAMETERS OF PHASE ELEMENTS
(73) Polskie Centrum Fotoniki i Swiatlowodów
(72) SZOSTKIEWICZ, Lukasz
HOLDYNSKI, Zbigniew
STEPIEN, Karol
ZIOLOWICZ, Anna
STANCZYK, Tomasz
LIPINSKI, Stanislaw
MURAWSKI, Michal
NAPIERALA, Marek
JÓZWIK, Michalina
NASILOWSKI, Tomasz
(31) 41406415
(32) 18.09.2015
(33) Poland

(51) G01B 11/06
(11) EP3427004
(21) EP17718811.7
(47) 26.01.2022
(87) DE2017100180
14.09.2017
(22) 08.03.2017
(54) METHOD AND MEASURING DEVICE FOR DETERMINING A LAYER THICKNESS OF A PLASTIC FILM
(73) iNOEX GmbH Innovationen und Ausrüstungen für die Extrusionstechnik
(72) NERLING, Christoph
PETERMANN, Jan Hendrik
(31) 102016104145
(32) 08.03.2016
(33) Germany

(51) G01B 11/16
(11) EP3781898
(21) EP19718145.6
(47) 26.01.2022
(87) EP2019059533
24.10.2019
(22) 12.04.2019
(54) SENSOR ASSEMBLY, ACTUATOR, CONTROLLER, ELECTRICALLY ADJUSTABLE PIECE OF FURNITURE AND METHOD FOR OPERATING AN ELECTRICALLY ADJUSTABLE PIECE OF FURNITURE
(73) LOGICDATA Electronic & Software Entwicklungs GmbH
(72) LUKAS, Stefan
KRASSER, Edwin
(31) 102018109215
(32) 18.04.2018
(33) Germany

(51) G01B 11/22
G01B 11/25
G01M 17/02
B60C 11/24
B60C 99/00
(11) EP3754294
(21) EP20167283.9
(47) 26.01.2022
(22) 25.04.2017
(54) HAND-HELD TYRE SCANNER
(73) Sigmavision Limited
(72) SISODIA, Kshitij
PRYCE, Andrew
GUSTAFSSON, Björn
PEARSON, Allen
(31) 201607166
(32) 25.04.2016
(33) United Kingdom

(51) G01B 11/24
G01M 11/02
A61B 5/00
A61B 5/107
(11) EP3517889
(21) EP17852956.6
(47) 26.01.2022
(87) JP2017033340
29.03.2018
(22) 14.09.2017
(54) MEASUREMENT DEVICE
(73) FUJIFILM Corporation
(72) ARAI, Hisao
KATAYAMA, Mayumi
KITAHASHI, Tsukasa
OKADA, Ken
HU, Yi
(31) 2016183781
(32) 21.09.2016
(33) Japan

(51) G01B 11/25
G06T 7/521
(11) EP3575742
(21) EP19176898.5
(47) 26.01.2022
(22) 28.05.2019
(54) A 3D OBJECT SCANNING USING STRUCTURED LIGHT
(73) Global Scanning Denmark A/S
(72) VERHAEGH, Gerard
ENGHOLM, Nis
(31) 18174872
(32) 29.05.2018
(33) European Patent Office (EPO)

(51) G01B 11/30

G01B 11/25
G01N 21/88
(11) EP3568668
(21) EP18705829.2
(47) 26.01.2022
(87) EP2018000009
19.07.2018
(22) 08.01.2018
(54) MOBILE AND AUTOMATED APPARATUS FOR THE DETECTION AND CLASSIFICATION OF DAMAGES ON THE BODY OF A VEHICLE
(73) Autoscan GmbH
(72) OZIM, Matej
(31) 201700002416
(32) 11.01.2017
(33) Italy

(51) G01B 15/02
G01B 15/00
G01F 23/284
G01F 23/288
B22D 2/00
F27D 21/00
(11) EP3561448
(21) EP18168729.4
(47) 26.01.2022
(22) 23.04.2018
(54) METHOD FOR DETECTING A LEVEL OF A MELT, METHOD FOR DETECTING A THICKNESS OF A CASTING POWDER, AND DETECTOR SYSTEM
(73) Berthold Technologies GmbH & Co. KG
(72) Rödfalk, Albert

(51) G01C 1/04
G02B 27/10
G01C 15/00
(11) EP3457080
(21) EP18194114.7
(47) 26.01.2022
(22) 12.09.2018
(54) SURVEYING INSTRUMENT
(73) TOPCON CORPORATION
(72) YOSHINO, Ken-ichiro
YUASA, Taichi
(31) 2017175509
(32) 13.09.2017
(33) Japan

(51) G01C 3/08
G01C 25/00
G06K 9/00
G06K 9/20
G01B 11/02
G01S 7/481
G01S 17/48
G01S 17/931
(11) EP3552180
(21) EP17877506.0
(47) 26.01.2022
(87) US2017064681
14.06.2018
(22) 05.12.2017
(54) DISTANCE SENSOR INCLUDING ADJUSTABLE FOCUS IMAGING SENSOR
(73) Magik Eye Inc.
(72) KIMURA, Akiteru
(31) 201662430998 P
(32) 07.12.2016
(33) United States of America

(51) G01C 5/00
G01C 15/00
(11) EP3620746
(21) EP18794258.6
(47) 26.01.2022
(87) CN2018083633
08.11.2018
(22) 19.04.2018
(54) TRAVERSE-TYPE MEASUREMENT METHOD FOR DUAL-SYSTEM BILATERAL-SURVEY COMPOSITE LEVEL
(73) Dalian Senbior Surveying Instrument Technology Co., Ltd.
(72) LIU, Yao
LIU, Yanchun
MENG, Qiang
(31) 201710304982
(32) 03.05.2017
(33) China

(51) G01C 9/28
(11) EP3792590
(21) EP19197021.9
(47) 26.01.2022
(22) 12.09.2019
(54) LEVEL REFINEMENT
(73) Bayerische Mass-Industrie Arno Keller GmbH
(72) HUBERT, Ralf

(51) G01C 19/5776
(11) EP3623757
(21) EP19195761.2
(47) 26.01.2022
(22) 05.09.2019
(54) SPINTRONIC GYROSCOPIC SENSOR DEVICE
(73) Honeywell International Inc.
(72) KATTI, Romney R.
(31) 201816195515
201862729881 P
(32) 19.11.2018
11.09.2018
(33) United States of America
United States of America

(51) G01C 21/00
B60L 3/12
G01C 21/32
B60L 3/00
(11) EP2664892
(21) EP11855555.6
(47) 26.01.2022
(87) JP2011050266
19.07.2012
(22) 11.01.2011
(54) INFORMATION PROCESSING DEVICE
(73) TOYOTA JIDOSHA KABUSHIKI KAISHA
(72) SAGATA, Koji

(51) G01C 21/00
G05D 1/02
G01S 1/00
G01S 19/49
(11) EP3444565
(21) EP17781905.9
(47) 26.01.2022
(87) CN2017080313
19.10.2017
(22) 12.04.2017
(54) AUTOMATIC MOVEMENT DEVICE FOR AUTOMATIC WORKING SYSTEM, AND CONTROL METHOD THEREFOR
(73) Positec Power Tools (Suzhou) Co., Ltd
(72) HE, Mingming
SHAO, Yong
RAO, Yue
SUN, Gen
ZHOU, Chang
YANG, Zhou
(31) 201610805198
201610224652
(32) 06.09.2016
12.04.2016
(33) China
China

(51) G01C 21/16
F16F 15/02
F16F 1/38
F16F 15/08
(11) EP3724604
(21) EP18811312.0
(47) 26.01.2022
(87) EP2018083848
20.06.2019
(22) 06.12.2018
(54) IMPROVED INERTIAL UNIT WITH SUSPENDED INERTIAL DEVICE
(73) SAFRAN ELECTRONICS & DEFENSE
(72) GIORGIO, Alain
(31) 1762016
(32) 12.12.2017
(33) France

(51) G01C 21/18
(11) EP3527945
(21) EP19157989.5
(47) 26.01.2022
(22) 19.02.2019
(54) OPEN ARCHITECTURE GIMBALED NAVIGATION SYSTEM USING LATTICE SHELLS
(73) The Boeing Company
(72) BUTSCHER, Stephen
(31) 201815899144
(32) 19.02.2018
(33) United States of America

(51) G01C 21/20
G01C 21/08
A63B 24/00
A63B 47/00
G01R 33/00
G01R 33/02
G01V 3/08
A63B 102/02
A63B 102/24
A63B 102/32
(11) EP2778612
(21) EP14157584.5
(47) 26.01.2022
(22) 04.03.2014
(54) Methods of determining performance information for individuals and sports objects
(73) Adidas AG
(72) Coza, Aurel
(31) 201313797361
(32) 12.03.2013

(33) United States of America

(51) G01C 21/20
G06Q 10/04
G08G 5/00
(11) EP3543654
(21) EP19163747.9
(47) 26.01.2022
(22) 19.03.2019
(54) METHOD AND SYSTEM FOR ASSISTING AN OPERATOR WITH CREATING A FLIGHT PLAN OF AN AIRCRAFT PASSING THROUGH A SET OF MISSION AREAS TO BE COVERED
(73) Thales
(72) ARNEAU, David
BILLAULT, Ludovic
DUPONT, Guillaume
(31) 1800241
(32) 22.03.2018
(33) France

(51) G01C 21/26
G01C 21/34
G01C 21/36
G08G 1/005
G08G 1/13
G06Q 10/02
G06Q 10/04
G09B 29/00
(11) EP3232158
(21) EP15867777.3
(47) 26.01.2022
(87) JP2015075267
16.06.2016
(22) 04.09.2015
(54) INFORMATION PROCESSING DEVICE, CONTROL METHOD, AND PROGRAM
(73) Sony Group Corporation
(72) MUKAIYAMA, Ryo
MURAKOSHI, Sho
AOKI, Suguru
YAMAURA, Kenichi
TAMURA, Renji
(31) 2014248566
(32) 09.12.2014
(33) Japan

(51) G01D 5/04
G01D 5/14
F16H 55/06
G01P 3/487
(11) EP3625522
(21) EP18725180.6
(47) 26.01.2022
(87) EP2018062489
22.11.2018
(22) 15.05.2018
(54) MULTITURN ANGLE MEASURING DEVICE
(73) Hengstler GmbH
(72) LINDEN, Martin
BLUST, Thorsten
KLAEGER, Kai
(31) 102017004672
(32) 16.05.2017
(33) Germany

(51) G01D 5/14
G01C 21/16
(11) EP3653999
(21) EP19194594.8
(47) 26.01.2022
(22) 24.03.2008
(54) MULTI-SENSOR DATA COLLECTION AND/OR PROCESSING
(73) QUALCOMM Incorporated
(72) SHEYNBLAT, Leonid
HODISAN, Alexander
WOLF, Thomas G.
(31) 914716 P
909380 P
896795 P
(32) 27.04.2007
30.03.2007
23.03.2007
(33) United States of America
United States of America
United States of America

(51) G01F 1/00
G01F 1/66
G01F 23/296
(11) EP3649437
(21) EP18766094.9
(47) 26.01.2022
(87) US2018047886
28.02.2019
(22) 24.08.2018
(54) MULTI-LAYER FLOW AND LEVEL METER
(73) Saudi Arabian Oil Company
(72) ALSAHAN, Fawaz
(31) 201715686302
(32) 25.08.2017
(33) United States of America

(51) G01F 1/66
G01D 4/00
G01F 15/06
(11) EP2880407
(21) EP13744725.6
(47) 26.01.2022
(87) FR2013051654
06.02.2014
(22) 10.07.2013
(54) SYSTEM FOR ESTIMATING THE INDIVIDUAL WATER USE
(73) Oxeau Invest
(72) LE FLOC'H, Jacques
(31) 1257350
(32) 30.07.2012
(33) France

(51) G01F 1/74
G01F 1/84
(11) EP3649442
(21) EP18732755.6
(47) 26.01.2022
(87) EP2018066273
10.01.2019
(22) 19.06.2018
(54) MEASURING TRANSDUCER TO DETERMINE THE MASS FLOW OF A LIQUID
(73) Endress+Hauser Flowtec AG
(72) ZHU, Hao
SCHERRER, Rémy
(31) 102017115251
(32) 07.07.2017
(33) Germany

(51) G01F 1/84
G01F 15/18
(11) EP3387391
(21) EP15817722.0
(47) 26.01.2022
(87) US2015065356
15.06.2017
(22) 11.12.2015
(54) ASYMMETRIC FLOWMETER AND RELATED METHOD
(73) Micro Motion, Inc.
(72) SKINKLE, David

(51) G01F 3/22
G01F 1/66
G06Q 50/06
G08B 21/16
G08B 23/00
G08C 15/00
H04Q 9/00
G01F 1/00
F17D 5/06
(11) EP3647744
(21) EP18824715.9
(47) 26.01.2022
(87) JP2018023798
03.01.2019
(22) 22.06.2018
(54) GAS METER MANAGEMENT SYSTEM
(73) Panasonic Intellectual Property Management Co., Ltd.
(72) TAMURA, Yoshikuni
MURABAYASHI, Nobuaki
SHIRASAWA Tadanori
KAWAUCHI, Akiyoshi
(31) 2017128359
(32) 30.06.2017
(33) Japan

(51) G01F 5/00
F23N 5/18
F23N 1/00
(11) EP3857178
(21) EP18796106.5
(47) 26.01.2022
(87) IB2018057492
02.04.2020
(22) 27.09.2018
(54) A MODULE FOR MEASURING THE FLOW RATE OF FUEL AND A BURNER COMPRISING SUCH MODULE
(73) C.I.B. Unigas S.p.A.
(72) PANCOLINI, Riccardo

(51) G01F 15/18
F16L 23/00
G01B 5/25
(11) EP3353506
(21) EP16775390.4
(47) 26.01.2022
(87) US2016051853
30.03.2017
(22) 15.09.2016
(54) ALIGNEMENT DEVICE FOR FLANGELESS FLOWMETER
(73) Dieterich Standard, Inc.
(72) BINGHAM, Bryce, Arthur
KENYON, Nathaniel, Kirk
STEHLE, John, Henry
(31) 201514865057
(32) 25.09.2015
(33) United States of America

(51) G01F 23/20

G01F 23/00
(11) EP3699557
(21) EP19216317.8
(47) 26.01.2022
(22) 13.12.2019
(54) TANK CONTINUOUS LEVEL SENSING
(73) B/E Aerospace, Inc.
(72) BUNIAK, Bradley J.
HASIRUMANE, Avinash Srikantegowda
HOANG, Thao
(31) 201916280484
(32) 20.02.2019
(33) United States of America

(51) G01F 23/284
H01Q 1/22
H01Q 13/20
(11) EP3087355
(21) EP14824810.7
(47) 26.01.2022
(87) EP2014078250
02.07.2015
(22) 17.12.2014
(54) GUIDED WAVE RADAR LEVEL GAUGING WITH PROBE RETAINING ELEMENT
(73) Rosemount Tank Radar AB
(72) EDVARDSSON, Olov
(31) 201314138611
(32) 23.12.2013
(33) United States of America

(51) G01G 11/00
G01G 11/04
(11) EP3370042
(21) EP18167484.7
(47) 26.01.2022
(22) 07.12.2010
(54) MULTI-TRACK CHECKWEIGHER
(73) Bizerba SE & Co. KG
(72) Horn, Sebastian
Berger, Hermann
Oppermann, Christian
(31) 102009060234
(32) 23.12.2009
(33) Germany

(51) G01G 19/02
(11) EP3593099
(21) EP18707894.4
(47) 26.01.2022
(87) EP2018054561
13.09.2018
(22) 23.02.2018
(54) METHOD FOR OPERATING AN ON-BOARD WEIGHING SYSTEM, AND TACHOGRAPH SYSTEM COMPRISING A WEIGHING SYSTEM
(73) Continental Automotive GmbH
(72) BERTL, Svenja
WALKNER, Heiko
DOHMEN, Ralf
(31) 102017203949
(32) 09.03.2017
(33) Germany

(51) G01G 19/02
G01B 11/16
G06K 9/00
G06K 9/40
(11) EP3591354
(21) EP17898398.7
(47) 26.01.2022
(87) JP2017034423
07.09.2018
(22) 25.09.2017
(54) AXLE-LOAD MEASURING APPARATUS AND AXLE-LOAD MEASURING METHOD
(73) Panasonic Intellectual Property Management Co., Ltd.
(72) IMAGAWA Taro
NODA Akihiro
KUSAKA Hiroya
(31) 2017036232
(32) 28.02.2017
(33) Japan

(51) G01H 9/00
G01S 5/22
G01S 3/808
(11) EP2499471
(21) EP10785488.7
(47) 26.01.2022
(87) GB2010002073
19.05.2011
(22) 11.11.2010
(54) IMPROVEMENTS IN DISTRIBUTED SENSING
(73) OptaSense Holdings Limited
(72) McEWEN-KING, Magnus
HILL, David John
(31) 0919904
(32) 13.11.2009
(33) United Kingdom

(51) G01H 11/08
B06B 1/06
G01N 29/24
(11) EP3240641
(21) EP15841115.7
(47) 26.01.2022
(87) NL2015050910
07.07.2016
(22) 28.12.2015
(54) FLEXIBLE ULTRASONIC TRANSDUCER AND A TRANSDUCER BLOCK
(73) GE SENSING EMEA
(72) ENGEL, Michiel Petrus Lambertus
RAMSARAN, Dheeradj
AUGUSTIJN, Cornelis Marinus
VAN DER HEIJDEN, Steven Johannes
(31) 2014080
2014068
(32) 31.12.2014
29.12.2014
(33) Netherlands
Netherlands

(51) G01J 3/28
G01N 21/27
G02B 21/00
G01J 3/12
G01J 3/02
G01J 3/10
(11) EP3206015
(21) EP15849137.3
(47) 26.01.2022
(87) ES2015070732
14.04.2016
(22) 08.10.2015
(54) SPECTROPHOTOMETER
(73) Consejo Superior De Investigaciones Científicas
(72) RAMOS VEGA, Daniel
MALVAR VIDAL, Oscar
CALLEJA GOMEZ, Montserrat
MONTEIRO KOSAKA, Priscila
ENCINAR DEL POZO, Mario
RUZ MARTINEZ, Jose Jaime
TAMAYO DE MIGUEL, Francisco, Javier
PINI, Valerio
(31) 201431491
(32) 10.10.2014
(33) Spain

(51) G01J 5/02
G01J 5/20
(11) EP3211390
(21) EP17157579.8
(47) 26.01.2022
(22) 23.02.2017
(54) DEVICE FOR THE DETECTION OF ELECTROMAGNETIC RADIATION WITH OVERHEAD ELECTRICAL CONNECTION PAD
(73) Commissariat à l'énergie atomique et aux énergies alternatives
LYNRED
(72) ARNAUD, Agnès
YON, Jean-Jacques
POCAS, Stephane
CORTIAL, Sébastien
(31) 1651511
(32) 24.02.2016
(33) France

(51) G01J 5/52
G01J 5/08
(11) EP3665454
(21) EP18765193.0
(47) 26.01.2022
(87) IB2018056010
14.02.2019
(22) 09.08.2018
(54) GEOMETRIC AND RADIOMETRIC CALIBRATION AND TEST APPARATUS FOR TESTING ELECTRO-OPTICAL THERMAL-IR INSTRUMENTS
(73) Leonardo S.p.A.
(72) BROGI, Stefano
BARILLI, Marco
(31) 17425088
(32) 09.08.2017
(33) European Patent Office (EPO)

(51) G01K 1/08
G01K 1/14
G01K 13/02
G01K 13/024
A61M 16/16
A61M 16/10
A61M 16/00
G01F 1/44
G01F 1/69
(11) EP3551978
(21) EP17877750.4
(47) 26.01.2022
(87) NZ2017050157
14.06.2018
(22) 07.12.2017
(54) SENSING ARRANGEMENTS FOR MEDICAL DEVICES

(73) Fisher&Paykel Healthcare Limited
(72) SMITH, Graeme Matthew
OSBORNE, Hamish Adrian
MCINTYRE, Joshua Peter
INGRAM, Benjamin John
BOGGS, Samuel Graham
MARINOVICH, Matthew Michael
(31) 201662431372 P
(32) 07.12.2016
(33) United States of America

(51) G01K 3/00
G06K 19/073
B64C 9/00
B64C 13/24
G06K 19/07
G06K 19/077
B64D 45/00
(11) EP3680635
(21) EP19213128.2
(47) 26.01.2022
(22) 03.12.2019
(54) ACTUATOR SYSTEM FOR AN AIRCRAFT AND METHOD OF DETERMINING THAT A MECHANICAL ELEMENT OF AN ACTUATOR SYSTEM HAS EXPERIENCED AN OVERHEAT CONDITION.
(73) Hamilton Sundstrand Corporation
(72) DOLFI, Eugene W.
ANKNEY, Darrell E.
(31) 201916243481
(32) 09.01.2019
(33) United States of America

(51) G01L 1/14
D03D 1/00
(11) EP3789746
(21) EP19397526.5
(47) 26.01.2022
(22) 06.09.2019
(54) DEFORMABLE SENSOR
(73) Forciot OY
(72) TURUNEN, Mikko
JÄRVINEN, Petri
ISO-KETOLA, Pekka

(51) G01L 1/22
G01B 7/16
(11) EP3532816
(21) EP17795007.8
(47) 26.01.2022
(87) GB2017053220
03.05.2018
(22) 25.10.2017
(54) STRAIN GAUGE
(73) Datum Electronics Limited
(72) HABENS, Malcolm
(31) 201618295
(32) 28.10.2016
(33) United Kingdom

(51) G01L 25/00
G01L 1/02
F15B 15/02
G01G 23/01
G01L 27/00
(11) EP3492897
(21) EP17833606.1
(47) 26.01.2022
(87) CN2017095075
01.02.2018
(22) 29.07.2017
(54) PRECISION MEASUREMENT DEVICE FOR FORCE STANDARD MACHINE, AND FORCE VALUE COMPARISON MACHINE
(73) Shanghai Institute of Process Automation & Instrumentation
Kunshan Innovation Testing Instruments Co., Ltd.
(72) TAO, Zecheng
BIAN, Aimin
ZHANG, Huaisuo
(31) 201610608135
(32) 29.07.2016
(33) China

(51) G01M 9/02
A63G 31/00
G10K 11/16
B64D 23/00
(11) EP3601989
(21) EP17903406.1
(47) 26.01.2022
(87) IB2017051730
04.10.2018
(22) 27.03.2017
(54) AN OPEN VERTICAL WIND TUNNEL
(73) Aerodium Technologies, SIA
(72) VOROBJOVS, Dmitrijs
LUCKINSKIS, Sergejs
SVILPE, Arturs

(51) G01M 13/04
G01H 1/00
G01M 13/02
(11) EP2370800
(21) EP09799436.2
(47) 26.01.2022
(87) SE2009051488
01.07.2010
(22) 22.12.2009
(54) AN ANALYSIS SYSTEM
(73) S.P.M. Instrument AB
(72) HEDIN, Lars-Olov Elis
(31) 0950309
0850179
175514 P
(32) 05.05.2009
22.12.2008
05.05.2009
(33) Sweden
Sweden
United States of America

(51) G01M 13/045
G01H 1/00
(11) EP2373971
(21) EP09799438.8
(47) 26.01.2022
(87) SE2009051494
01.07.2010
(22) 22.12.2009
(54) AN ANALYSIS SYSTEM
(73) S.P.M. Instrument AB
(72) HEDIN, Lars-Olov Elis
(31) 0950312
0850177
175505
(32) 05.05.2009
22.12.2008
05.05.2009
(33) Sweden
Sweden
United States of America

(51) G01N 1/22
(11) EP3505904
(21) EP18197117.7
(47) 26.01.2022
(22) 27.09.2018
(54) EXHAUST GAS SAMPLING APPARATUS AND METHOD HAVING A FLOW RATE CHANGEABLE MECHANISM
(73) Horiba, Ltd.
(72) TSURUMI, Kazuya
(31) 2017252486
(32) 27.12.2017
(33) Japan

(51) G01N 1/34
G01N 1/38
B01L 3/00
G01N 35/00
(11) EP3304031
(21) EP16736295.3
(47) 26.01.2022
(87) US2016035634
08.12.2016
(22) 03.06.2016
(54) A COMPONENT OF A DEVICE, A DEVICE, AND A METHOD FOR PURIFYING AND TESTING BIOMOLECULES FROM BIOLOGICAL SAMPLES
(73) AVANBIO INC.
(72) LI, Yongmei
LI, Li
(31) 201514732423
(32) 05.06.2015
(33) United States of America

(51) G01N 15/06
(11) EP3722781
(21) EP18885474.9
(47) 26.01.2022
(87) CN2018118697
13.06.2019
(22) 30.11.2018
(54) DETECTION SYSTEM AND METHOD FOR CONCENTRATION FLUID NONMETAL PARTICLES
(73) Fatri United Testing & Control (Quanzhou) Technologies Co., Ltd.
(72) ZHANG, Zhongping
NIE, Yongzhong
(31) 201711267524
(32) 05.12.2017
(33) China

(51) G01N 15/14
(11) EP3421968
(21) EP18178803.5
(47) 26.01.2022
(22) 20.06.2018
(54) OPTICAL PARTICLE ANALYSIS USING SHEATH FLOW
(73) ARKRAY, Inc.
(72) MASUDA, Shigeki
(31) 2017125413
(32) 27.06.2017
(33) Japan

(51) G01N 19/02
A61K 8/04
(11) EP3602004
(21) EP18711146.3
(47) 26.01.2022
(87) EP2018057210
04.10.2018
(22) 21.03.2018
(54) METHOD FOR MEASURING WET FRICTION OF HAIR
(73) Unilever IP Holdings B.V.
(72) ZHOU, Rongrong
BELL, Fraser, Ian
MOGHADAM, Sophia, Paraskevi, Clare
BARNES, Andrew, Anthony, Howard
GILES, Colin, Christopher, David
(31) 17163626
(32) 29.03.2017
(33) European Patent Office (EPO)

(51) G01N 21/00
A61M 5/00
G01F 1/00
(11) EP3320327
(21) EP16823948.1
(47) 26.01.2022
(87) IB2016053374
19.01.2017
(22) 08.06.2016
(54) COVER FOR LIQUID DELIVERY SYSTEM WITH INTEGRATED PLUNGER POSITION SENSING, AND CORRESPONDING METHOD
(73) Patients Pending Ltd.
(72) SHEKALIM, Avraham
(31) 201662325470 P
201562191411 P
(32) 21.04.2016
12.07.2015
(33) United States of America
United States of America

(51) G01N 21/25
G01N 21/88
B29C 70/00
G01N 21/17
G01N 21/84
B29C 70/54
(11) EP3599457
(21) EP19170135.8
(47) 26.01.2022
(22) 18.04.2019
(54) CHARACTERIZATION OF MELTED VEIL STRAND RATIOS IN PLIES OF FIBER MATERIAL
(73) The Boeing Company
(72) Szarski, Martin Alexander
(31) 201816042040
(32) 23.07.2018
(33) United States of America

(51) G01N 21/3504
G01N 21/03
G01N 21/39
G01J 3/433
G01J 3/02
G01N 21/09
(11) EP3591379
(21) EP18181731.3
(47) 26.01.2022
(22) 04.07.2018
(54) PORTABLE OPTICAL SPECTROSCOPY DEVICE FOR ANALYZING GAS SAMPLES
(73) Q.E.D. Environmental Systems Limited
(72) BOUNAIX, Fabrice Marcel Serge
CORTINA, Antonio
FINARDI, Gabriele

(51) G01N 21/64
G01N 21/65
G01N 21/03
G01N 21/11
(11) EP3271706
(21) EP15899850.0
(47) 26.01.2022
(87) US2015042652
02.02.2017
(22) 29.07.2015
(54) ANALYTE DETECTION PACKAGE HOUSING
(73) Hewlett-Packard Development Company, L.P.
(72) BARCELO, Steven
GE, Ning
LI, Zhiyong
DOOLEY, Kevin

(51) G01N 21/65
G01N 21/64
(11) EP3353534
(21) EP16891854.8
(47) 26.01.2022
(87) US2016019998
31.08.2017
(22) 28.02.2016
(54) BREAKDOWN OF SAMPLE SUBSTANCE MOLECULAR BONDS AND COLLECTION OF SURFACE ENHANCED LUMINESCENCE
(73) Hewlett-Packard Development Company, L.P.
(72) ROGACS, Anita
GE, Ning
SHKOLNIKOV, Viktor
BENNING, Paul J.

(51) G01N 21/85
G01N 21/84
B07C 5/342
(11) EP2893329
(21) EP13756145.2
(47) 26.01.2022
(87) EP2013068031
13.03.2014
(22) 30.08.2013
(54) METHOD AND APPARATUS FOR HANDLING HARVESTED ROOT CROPS
(73) Tomra Sorting Limited
(72) FROST, James
McGLOUGHLIN, John
MOYNIHAN, Maurice
(31) 20120388
(32) 07.09.2012
(33) Ireland

(51) G01N 21/956
G01N 21/39
G01B 11/25
(11) EP3411695
(21) EP16889639.7
(47) 26.01.2022
(87) US2016060599
10.08.2017
(22) 04.11.2016
(54) METHOD AND SYSTEM FOR OPTICAL THREE-DIMENSIONAL TOPOGRAPHY MEASUREMENT
(73) KLA-Tencor Corporation
(72) VAN DER BURGT, Maarten
LIU, Sheng
ZHAO, Guoheng
VAN GILS, Karel
DE GREEVE, Johan
HILL, Andy
(31) 201662289889 P
(32) 01.02.2016
(33) United States of America

(51) G01N 23/04
G01V 5/00
G06T 7/00
(11) EP3242126
(21) EP15875158.6
(47) 26.01.2022
(87) CN2015098470
07.07.2016
(22) 23.12.2015
(54) DUAL-ENERGY RAY IMAGING METHOD AND SYSTEM
(73) Tsinghua University
Nuctech Company Limited
(72) LI, Liang
XING, Yuxiang
ZHANG, Li
KANG, Kejun
GU, Jianping
CHEN, Zhiqiang
ZHAO, Ziran
XIAO, Yongshun
ZHENG, Juan
(31) 201410842363
(32) 30.12.2014
(33) China

(51) G01N 23/207
G01N 23/205
(11) EP3260850
(21) EP17177106.6
(47) 26.01.2022
(22) 21.06.2017
(54) PROCESSING METHOD, PROCESSING APPARATUS AND PROCESSING PROGRAM
(73) Rigaku Corporation
(72) Himeda, Akihiro
Mitsunaga, Toru
Nagao, Keigo
Konaka, Hisashi
(31) 2016125248
(32) 24.06.2016
(33) Japan

(51) G01N 25/72
(11) EP3649463
(21) EP18743340.4
(47) 26.01.2022
(87) US2018040334
10.01.2019
(22) 29.06.2018
(54) APPARATUS AND METHOD FOR NONDESTRUCTIVELY INSPECTING

FIBERGLASS AND NONMETALLIC PIPES
(73) Saudi Arabian Oil Company
(72) AL-OMARI, Ahmed S.
(31) 201715640874
(32) 03.07.2017
(33) United States of America

(51) G01N 27/04
G01N 27/20
G01M 5/00
G01B 11/02
G01N 21/84
(11) EP2905610
(21) EP15154033.3
(47) 26.01.2022
(22) 05.02.2015
(54) DETERMINATION OF ANISOTROPIC CONDUCTION CHARACTERISTICS
(73) The Boeing Company
(72) KHOSRAVANI, Shahriar
(31) 201414174768
(32) 06.02.2014
(33) United States of America

(51) G01N 27/327
G01N 33/487
(11) EP3844490
(21) EP19787145.2
(47) 26.01.2022
(87) CZ2019050042
15.10.2020
(22) 02.10.2019
(54) BLOOD SUGAR TESTING INSTRUMENT WITH HYGROSCOPIC DISPLAY
(73) XGLU LABS a.s.
(72) NOVÁK, Marek
(31) 201900228 U
(32) 11.04.2019
(33) Czech Republic

(51) G01N 29/04
G01N 25/72
G01N 29/30
(11) EP3850353
(21) EP19772970.0
(47) 26.01.2022
(87) AT2019060291
19.03.2020
(22) 10.09.2019
(54) METHOD FOR PRODUCING A FIBRE-PLASTIC-COMPOSITE REFERENCE BODY AND TEST METHOD
(73) FACC AG
(72) HÖLLER, Helmuth
(31) 507642018
(32) 10.09.2018
(33) Austria

(51) G01N 29/24
G01H 9/00
G01V 1/40
G01V 1/22
E21B 47/0224
E21B 47/135
G01K 11/32
(11) EP3427045
(21) EP17764137.0
(47) 26.01.2022
(87) US2017021659
14.09.2017
(22) 09.03.2017
(54) DAS METHOD OF ESTIMATING FLUID DISTRIBUTION
(73) ConocoPhillips Company
(72) GIBSON, Mark R.
FRIEHAUF, Kyle
(31) 201715453044
201662305758 P
201662305777 P
(32) 08.03.2017
09.03.2016
09.03.2016
(33) United States of America
United States of America
United States of America

(51) G01N 29/26
G01N 29/06
G01N 29/44
G01N 29/24
(11) EP2929344
(21) EP13815218.6
(47) 26.01.2022
(87) US2013072798
12.06.2014
(22) 03.12.2013
(54) ULTRASONIC PHASED ARRAY PROBE
(73) General Electric Company
(72) KLEINERT, Wolf-Dietrich
OBERDOERFER, York
KOCH, Roman, Heinrich
(31) 201213706531
(32) 06.12.2012
(33) United States of America

(51) G01N 30/00
G01N 15/02
(11) EP2856141
(21) EP13730286.5
(47) 26.01.2022
(87) FI2013050572
28.11.2013
(22) 24.05.2013
(54) METHOD AND SYSTEM FOR ANALYZING SOLID MATTER CONTAINING LIQUIDS AND MONITORING OR CONTROLLING PROCESSES CONTAINING SUCH LIQUIDS
(73) Kemira Oyj
(72) SAARI, Eija
JOENSUU, Iiris
VÄHÄSALO, Lari
PIIRONEN, Marjatta
(31) 20125560
(32) 25.05.2012
(33) Finland

(51) G01N 30/02
G01N 30/50
G01N 30/60
G01N 1/40
G01N 35/10
B01L 3/02
B01D 15/22
B01J 20/285
B01J 20/286
B82Y 30/00
(11) EP1784637
(21) EP05788638.4
(47) 26.01.2022
(87) US2005029289
02.03.2006
(22) 17.08.2005
(54) METHOD OF MAINTAINING A PIPETTE TIP COLUMN IN A WET STATE AND PIPETTE TIP COLUMN
(73) Phynexus, Inc.
(72) GJERDE, Douglas, T.
BURGE, Allen
YENGOYAN, Leon, S.
JONES, Ronald
HANNA, Christopher, P.
(31) 920922
(32) 17.08.2004
(33) United States of America

(51) G01N 30/60
F16L 19/00
(11) EP2745104
(21) EP12762041.7
(47) 26.01.2022
(87) IB2012001629
21.02.2013
(22) 09.08.2012
(54) PIPE CONTAINING A METAL CASING WITH A PLASTICS MATERIAL INLAY FOR USE IN LOW AND HIGH PRESSURE APPLICATIONS, IN PARTICULAR AS AN HPLC COLUMN
(73) Möller Medical GmbH
(72) HIRMER, Frank
FRANK, Michael
(31) 13372011
(32) 15.08.2011
(33) Switzerland

(51) G01N 31/16
G01N 33/18
(11) EP3156792
(21) EP16193440.1
(47) 26.01.2022
(22) 12.10.2016
(54) METHOD FOR ESTIMATING THE CONCENTRATION OF COMPOUNDS OF INTEREST IN A DIGESTER SUBSTRATE OR DIGESTATE
(73) Institut national de recherche pour l'agriculture, l'alimentation et l'environnement
BIOENTECH
(72) LARDON, Laurent
STEYER, Jean-Philippe
GUIZARD, Guillaume
LATRILLE, Eric
MIROUX, Jérémie
CHARNIER, Cyrille
(31) 1559767
(32) 14.10.2015
(33) France

(51) G01N 33/487
G01N 33/49
G01N 35/00
G01N 35/02
G01N 35/10
(11) EP3559663
(21) EP17808467.9
(47) 26.01.2022
(87) EP2017081316
28.06.2018
(22) 04.12.2017

(54) AN APPARATUS AND A METHOD FOR ANALYZING A BODY FLUID SAMPLE FROM A SAMPLER
(73) Radiometer Medical ApS
(72) BUNDGAARD, Frederik
HVIDTFELDT, Kristian
LAURSEN, Nina Pytter
SØRENSEN, Kasper Nedergaard
(31) PA201600791
(32) 23.12.2016
(33) Denmark

(51) G01N 33/49
A61B 5/15
A61B 5/154
B01L 3/00
(11) EP3803389
(21) EP19734193.6
(47) 26.01.2022
(87) US2019035761
12.12.2019
(22) 06.06.2019
(54) BIOLOGICAL FLUID SEPARATION DEVICE
(73) Becton, Dickinson and Company
(72) WENTZELL, Scott
LI, Peng
(31) 201862681894 P
(32) 07.06.2018
(33) United States of America

(51) G01N 33/50
G01N 33/566
(11) EP3270157
(21) EP16178864.1
(47) 26.01.2022
(22) 11.07.2016
(54) SCREENING ASSAY FOR SWEETNESS
(73) Firmenich SA
(72) MES, Jurriaan, Johannes
KERSCH-COUNET, Christine
PAQUES, Marcel
BASTIAAN-NET, Shanna

(51) G01N 33/53
A61K 39/00
A61K 35/17
G01N 33/537
G01N 33/542
G01N 33/569
(11) EP3712617
(21) EP19163598.6
(47) 26.01.2022
(22) 19.03.2019
(54) METHOD FOR PROVIDING PERSONALIZED CELLS WITH CHIMERIC ANTIGEN RECEPTORS (CAR)
(73) Miltenyi Biotec B.V. & Co. KG
(72) HERBEL, Christoph
ECKARDT, Dominik
BOSIO, Andreas
HARDT, Olaf

(51) G01N 33/542
G01N 33/66
C08L 5/02
C08B 37/02
(11) EP3615939
(21) EP18727089.7
(47) 26.01.2022
(87) US2018029823
01.11.2018
(22) 27.04.2018
(54) USING A BLUE-SHIFTED REFERENCE DYE IN AN OPTICAL GLUCOSE ASSAY
(73) Medtronic MiniMed, Inc.
(72) SVENNING KRISTENSEN, Jesper
AASMUL, Soren
(31) 201715581540
(32) 28.04.2017
(33) United States of America

(51) G01N 33/543
A61B 5/145
(11) EP3180618
(21) EP15831340.3
(47) 26.01.2022
(87) US2015042247
18.02.2016
(22) 27.07.2015
(54) NONINVASIVE BODY FLUID STRESS SENSING
(73) Arizona Board of Regents on behalf of Arizona State University
(72) HASELWOOD, Brittney
LABELLE, Jeffrey
HAKIMI, Tina
(31) 201562101143 P
201462037006 P
(32) 08.01.2015
13.08.2014
(33) United States of America
United States of America

(51) G01N 33/558
C07K 16/18
G01N 33/53
G01N 21/78
G01N 21/84
G01N 33/543
G01N 33/553
G01N 21/77
(11) EP3370515
(21) EP16858381.3
(47) 26.01.2022
(87) US2016058290
27.04.2017
(22) 21.10.2016
(54) BED BUGS DETECTION DEVICE
(73) Redcoat Solutions, Inc.
(72) ZIN, Benedict Louis
WANG, Min
HALL, William John
STURMAN, Andy
(31) 201562244188 P
(32) 21.10.2015
(33) United States of America

(51) G01N 33/574
A61K 39/00
G01N 33/68
(11) EP3425400
(21) EP17179714.5
(47) 26.01.2022
(22) 05.07.2017
(54) METHOD FOR MANUFACTURING A TUMOR VACCINE
(73) VCC Medical Deutschland GmbH
(72) Kiessig, Stephan
Rönnau, Helge

(51) G01N 33/574
C12Q 1/6886
A61P 35/00
(11) EP3715850
(21) EP20166115.4
(47) 26.01.2022
(22) 27.03.2020
(54) METHOD AND APPARATUS FOR DETERMINING SENSITIVITY OF CYCLIN-DEPENDENT KINASE 4/6 INHIBITOR
(73) SYSMEX CORPORATION
(72) Noda, Kenta
Yokose, Noriko
(31) 2019063185
(32) 28.03.2019
(33) Japan

(51) G01N 33/68
(11) EP3756015
(21) EP19707087.3
(47) 26.01.2022
(87) GB2019050416
22.08.2019
(22) 18.02.2019
(54) URINE MARKERS AND FORMULA FOR DIAGNOSING OVERACTIVE BLADDER DISORDER
(73) University of Portsmouth Higher Education Corporation
(72) YOUNG, John S.
FIROUZMAND, Sepinoud
(31) 201802653
(32) 19.02.2018
(33) United Kingdom

(51) G01N 35/00
(11) EP3267202
(21) EP16758712.0
(47) 26.01.2022
(87) JP2016053574
09.09.2016
(22) 05.02.2016
(54) AUTOMATIC ANALYSIS DEVICE
(73) Hitachi High-Tech Corporation
(72) NAKANO, Toshirou
(31) 2015040429
(32) 02.03.2015
(33) Japan

(51) G01P 3/489
G01P 3/488
(11) EP3418753
(21) EP18177655.0
(47) 26.01.2022
(22) 14.06.2018
(54) METHOD FOR PROCESSING A ROTATIONAL SPEED SIGNAL OF AN AIRCRAFT ENGINE SHAFT AFFECTED BY NOISE
(73) SAFRAN AIRCRAFT ENGINES
(72) DJELASSI, Cedrik
(31) 1755340
(32) 14.06.2017
(33) France

(51) G01Q 40/00
G01Q 60/32
G01N 29/06
(11) EP3443363
(21) EP17718157.5
(47) 26.01.2022
(87) NL2017050227
19.10.2017

(22) 13.04.2017
(54) METHOD OF TUNING PARAMETER SETTINGS FOR PERFORMING ACOUSTIC SCANNING PROBE MICROSCOPY FOR SUBSURFACE IMAGING, SCANNING PROBE MICROSCOPY SYSTEM, AND COMPUTER PROGRAM PRODUCT
(73) Nederlandse Organisatie voor toegepast-natuurwetenschappelijk onderzoek TNO
(72) VAN ES, Maarten Hubertus
SADEGHIAN MARNANI, Hamed
MEIJER TIMMERMAN THIJSSEN, Rutger
(31) 16165256
(32) 14.04.2016
(33) European Patent Office (EPO)

(51) G01R 13/02
(11) EP3106883
(21) EP16175116.9
(47) 26.01.2022
(22) 17.06.2016
(54) CALIBRATION FOR TEST AND MEASUREMENT INSTRUMENT INCLUDING ASYNCHRONOUS TIME-INTERLEAVED DIGITIZER USING HARMONIC MIXING
(73) Tektronix, Inc.
(72) HICKMAN, Barton
KNIERIM, Daniel
(31) 201514971727
201562182216 P
(32) 16.12.2015
19.06.2015
(33) United States of America
United States of America

(51) G01R 15/18
H02M 7/487
H02H 9/02
G01R 31/26
G01R 19/00
G01R 19/165
G01R 31/52
H02H 7/122
H02M 7/00
(11) EP3602083
(21) EP18716245.8
(47) 26.01.2022
(87) EP2018058788
18.10.2018
(22) 05.04.2018
(54) SHORT-CIRCUIT CURRENT SENSOR FOR POWER ELECTRONICS MODULE
(73) ABB Schweiz AG
(72) TRAUB, Felix
(31) 17165711
(32) 10.04.2017
(33) European Patent Office (EPO)

(51) G01R 15/20
(11) EP3594697
(21) EP18763253.4
(47) 26.01.2022
(87) JP2018003784
13.09.2018
(22) 05.02.2018
(54) CURRENT SENSOR
(73) Alps Alpine Co., Ltd.
(72) TAMURA, Manabu
HEBIGUCHI, Hiroyuki
MATSUYAMA, Eiichiro
(31) 2017041786
(32) 06.03.2017
(33) Japan

(51) G01R 19/00
H01H 1/00
G01R 31/327
H01H 71/04
G01R 31/52
H01H 47/00
(11) EP3336560
(21) EP17202694.0
(47) 26.01.2022
(22) 21.11.2017
(54) METHOD AND DEVICE FOR DIAGNOSING WEAR OF AN ELECTRICAL SWITCHING UNIT, AND ELECTRICAL UNIT COMPRISING SUCH A DEVICE
(73) Schneider Electric Industries SAS
(72) ROLARD, François Jean Maurice
REMY, Maël Eugène Alain
DESFORGES, José
(31) 1662576
(32) 16.12.2016
(33) France

(51) G01R 21/00
G01R 19/00
(11) EP3575805
(21) EP18305663.9
(47) 26.01.2022
(22) 30.05.2018
(54) DC SUBSTATION AND METHOD FOR DETECTING AN ELECTRICAL ENERGY FLOW IN SAID SUBSTATION
(73) ALSTOM Transport Technologies
(72) SÖFFKER, Carsten
HOFSTÄDTER, Raphael

(51) G01R 22/06
G01R 22/10
G05F 3/30
H03F 3/393
H03F 3/45
H03F 3/343
G05F 1/56
(11) EP3621200
(21) EP19196183.8
(47) 26.01.2022
(22) 09.09.2019
(54) VOLTAGE-TO-CURRENT CONVERTER
(73) Analog Devices International Unlimited Company
(72) HURWITZ, Jonathan Ephraim David
(31) 201916562141
201862729171 P
(32) 05.09.2019
10.09.2018
(33) United States of America
United States of America

(51) G01R 27/26
G01R 31/58
(11) EP3201636
(21) EP15846076.6
(47) 26.01.2022
(87) US2015053185
07.04.2016
(22) 30.09.2015
(54) ELECTRICAL CABLE DIAGNOSTIC SYSTEM
(73) Instrument Manufacturing Company
(72) SZATKOWSKI, Andrzej Pawel
MASHIKIAN, Matthew S.
(31) 201414505857
(32) 03.10.2014
(33) United States of America

(51) G01R 27/32
(11) EP3444622
(21) EP18162710.0
(47) 26.01.2022
(22) 20.03.2018
(54) VECTOR NETWORK ANALYZER WITH DIGITAL INTERFACE
(73) Rohde & Schwarz GmbH & Co. KG
(72) Heuel, Steffen
Neidhardt, Steffen
Bednorz, Thilo
(31) 201815898874
201762547195 P
(32) 19.02.2018
18.08.2017
(33) United States of America
United States of America

(51) G01R 31/00
(11) EP3724669
(21) EP18833927.9
(47) 26.01.2022
(87) FR2018053219
20.06.2019
(22) 12.12.2018
(54) METHOD AND SYSTEM FOR MONITORING A MESHED CURRENT RETURN ELECTRICAL NETWORK FOR AN AIRCRAFT MADE OF COMPOSITE MATERIAL
(73) Université Grenoble Alpes
Centre National de la Recherche Scientifique
Safran Electrical & Power
(72) DIEUDONNE, Anca-Lucia
RETIERE, Nicolas Marie Henri
GODDET, Etienne
GUICHON, Jean-Michel
(31) 1762093
(32) 13.12.2017
(33) France

(51) G01R 31/00
G01R 31/69
G01R 31/54
(11) EP2981837
(21) EP14716264.8
(47) 26.01.2022
(87) EP2014056566
09.10.2014
(22) 02.04.2014
(54) DEVICE AND PROCEDURE FOR MONITORING A TRAILER ELECTRICITY CONNECTOR
(73) HELLA GmbH & Co. KGaA
(72) DOME, Juri
SCHMÄLING, Jan
(31) 102013103307
(32) 03.04.2013
(33) Germany

(51) G01R 31/367
G01R 31/374

G01R 31/3835
G01R 31/388
G01R 31/392
(11) EP3745151
(21) EP20171750.1
(47) 26.01.2022
(22) 28.04.2020
(54) METHOD AND APPARATUS FOR CORRECTING SOC, BATTERY MANAGEMENT SYSTEM AND STORAGE MEDIUM
(73) Contemporary Amperex Technology Co., Limited
(72) LI, Shichao
RUAN, Jian
DU, Mingshu
LU, Yanhua
ZHANG, Wei
TANG, Shenzhi
(31) 201910441422
(32) 24.05.2019
(33) China

(51) G01R 33/00
G01R 33/09
(11) EP3462201
(21) EP18188234.1
(47) 26.01.2022
(22) 09.08.2018
(54) MAGNETIC FIELD SENSOR WITH COIL STRUCTURE AND METHOD OF FABRICATION
(73) NXP B.V.
(72) ISLER, Mark
(31) 201715719932
(32) 29.09.2017
(33) United States of America

(51) G01R 33/26
(11) EP3605130
(21) EP19183917.4
(47) 26.01.2022
(22) 02.07.2019
(54) PULSED-BEAM ATOMIC MAGNETOMETER SYSTEM
(73) Northrop Grumman Systems Corporation
(72) WALKER, Thad G.
BULATOWICZ, Michael D.
LARSEN, Michael S.
(31) 201816053535
(32) 02.08.2018
(33) United States of America

(51) G01R 33/36
G01R 33/54
(11) EP3803424
(21) EP19728443.3
(47) 26.01.2022
(87) EP2019064742
19.12.2019
(22) 06.06.2019
(54) A METHOD FOR CONFIGURING AN RF TRANSMIT ASSEMBLY
(73) Koninklijke Philips N.V.
(72) VERNICKEL, Peter
LEUSSLER, Christoph
(31) 18176930
(32) 11.06.2018
(33) European Patent Office (EPO)

(51) G01R 33/3875
G01R 33/3815
(11) EP3667351
(21) EP19214146.3
(47) 26.01.2022
(22) 06.12.2019
(54) METHOD FOR CHARGING AN HTS SHIM DEVICE
(73) Bruker Switzerland AG
(72) Schauwecker, Robert
Günter, Kenneth J.
(31) 102018221322
(32) 10.12.2018
(33) Germany

(51) G01R 33/48
G01R 33/561
A61B 6/02
A61B 6/00
G01R 33/56
(11) EP3447518
(21) EP17187933.1
(47) 26.01.2022
(22) 25.08.2017
(54) FAN- OR CONE-BEAM GEOMETRY FOR MAGNETIC RESONANCE IMAGING AND X-RAY IMAGING
(73) Siemens Healthcare GmbH
(72) Stimpel, Bernhard
Leghissa, Martino
Syben, Christopher
Maier, Andreas

(51) G01R 33/56
G01R 33/54
A61B 5/055
(11) EP3502727
(21) EP17209923.6
(47) 26.01.2022
(22) 22.12.2017
(54) METHOD FOR DETERMINING AN IMAGING QUALITY INFORMATION FOR A MAGNETIC RESONANCE IMAGING APPARATUS FROM A SIGNAL-TO-NOISE RATIO AT AN ANATOMICAL LANDMARK
(73) Siemens Healthcare GmbH
(72) Kannengießer, Stephan
Landschütz, Wilfried
de Oliveira, Andre
Harder, Martin

(51) G01R 33/567
(11) EP3413076
(21) EP17179814.3
(47) 26.01.2022
(22) 05.07.2017
(54) MRI INVOLVING THE GENERATION OF A PHYSIOLOGICAL MOTION SIGNAL USING A PILOT TONE NAVIGATOR
(73) Siemens Healthcare GmbH
(72) Bacher, Mario
Speier, Peter
(31) 102017209710
102017209708
(32) 08.06.2017
08.06.2017
(33) Germany
Germany

(51) G01S 7/02
G01S 7/36
G01S 13/20
G01S 13/26
G01S 13/30
G01S 13/28
G01S 13/02
(11) EP3726243
(21) EP20175581.6
(47) 26.01.2022
(22) 04.12.2019
(54) METHOD FOR SCRAMBLING OF THE ELECTRONIC SIGNATURE TRANSMITTED BY A RADAR, AND TRANSMITTING/RECEIVING DEVICE SUITABLE FOR IMPLEMENTING SAME
(73) THALES
(72) CORNIC, Pascal
GARREC, Patrick
POREZ, Nicolas
(31) 1872651
(32) 11.12.2018
(33) France

(51) G01S 13/72
G01S 7/41
(11) EP3567399
(21) EP19171633.1
(47) 26.01.2022
(22) 29.04.2019
(54) METHOD FOR TRACKING TARGETS, PARTICULARLY AT SEA, AND RADAR IMPLEMENTING SUCH A METHOD
(73) Thales
(72) CORRETJA, Vincent
KEMKEMIAN, Stéphane
MAGNANT, Clément
PETITJEAN, Julien
(31) 1800437
(32) 09.05.2018
(33) France

(51) G01S 13/90
G01S 7/40
G01S 7/00
(11) EP3425422
(21) EP18178739.1
(47) 26.01.2022
(22) 20.06.2018
(54) SYNTHETIC APERTURE RADAR METHOD AND SYNTHETIC APERTURE RADAR SYSTEM
(73) Deutsches Zentrum für Luft- und Raumfahrt e.V.
(72) Krieger, Gerhard
Rodriguez-Cassola, Marc
Lopez-Dekker, Francisco
Zonno, Mariantonietta
Moreira, Alberto
(31) 102017211294
(32) 03.07.2017
(33) Germany

(51) G01S 13/90
H04W 84/18
G01S 11/14
H04W 56/00
G01S 15/74
G01S 15/87
(11) EP3824316
(21) EP18819037.5
(47) 26.01.2022
(87) EP2018083805
13.06.2019
(22) 06.12.2018

(54) A SELF-ORGANIZING NODE AND A SENSOR NETWORK WITH SELF-ORGANIZING NODES
(73) Teade Oü
(72) MERKEL, Harald
(31) 1751501
(32) 06.12.2017
(33) Sweden

(51) G01S 13/931
G05D 1/02
(11) EP3732506
(21) EP18826754.6
(47) 26.01.2022
(87) EP2018097113
04.07.2019
(22) 28.12.2018
(54) AN AUTONOMOUS MOBILE CLEANING ROBOT
(73) Acconeer AB
(72) GRUBECK, Hans
EGARD, Mikael
ATLEVI, Per
NELANDER, Rikard
(31) 17211114
(32) 29.12.2017
(33) European Patent Office (EPO)

(51) G01S 17/10
G01S 17/48
G01S 7/4863
G01S 7/4865
G01S 7/486
G01S 7/487
(11) EP3671276
(21) EP19210041.0
(47) 26.01.2022
(22) 19.11.2019
(54) OPTOELECTRONIC SENSOR AND METHOD FOR DETECTING AN OBJECT
(73) SICK AG
(72) Waslowski, Kai
Wiethege, Friedhelm
(31) 102018132473
(32) 17.12.2018
(33) Germany

(51) G01S 17/86
G01S 17/89
G01S 7/42
G01S 7/481
H04N 7/18
(11) EP3819671
(21) EP20202090.5
(47) 26.01.2022
(22) 15.10.2020
(54) OPTOELECTRONIC SENSOR AND METHOD FOR DETECTING OBJECTS
(73) SICK AG
(72) Müller, Romain
Tschuch, Sebastian
Russ, Thomas
(31) 102019129986
(32) 07.11.2019
(33) Germany

(51) G01S 17/89
G01S 7/481
(11) EP3699640
(21) EP19158077.8
(47) 26.01.2022
(22) 19.02.2019
(54) OPTOELECTRONIC SENSOR AND METHOD FOR DETECTING AN OBJECT
(73) SICK AG
(72) Buser, Roger
Ostojic, Oliver

(51) G01S 19/48
G01S 5/02
H04W 4/02
(11) EP3465251
(21) EP17724251.8
(47) 26.01.2022
(87) US2017031702
14.12.2017
(22) 09.05.2017
(54) HYBRID POSITIONING SYSTEM USING A REAL-TIME LOCATION SYSTEM AND ROBOTIC TOTAL STATION
(73) Topcon Positioning Systems, Inc.
(72) HALLETT, Jason
(31) 201615175168
(32) 07.06.2016
(33) United States of America

(51) G01T 1/17
G01T 1/29
(11) EP3479145
(21) EP17739904.5
(47) 26.01.2022
(87) EP2017066139
04.01.2018
(22) 29.06.2017
(54) PHOTON-COUNTING COMPUTED TOMOGRAPHY
(73) Koninklijke Philips N.V.
(72) STEADMAN, Roger
PROKSA, Roland
ROESSL, Ewald
HERRMANN, Christoph
(31) 16176936
(32) 29.06.2016
(33) European Patent Office (EPO)

(51) G01V 1/00
G01V 1/24
G01V 3/38
(11) EP2652528
(21) EP11849155.4
(47) 26.01.2022
(87) US2011063545
21.06.2012
(22) 06.12.2011
(54) AUTONOMOUS ELECTRICAL METHODS NODE
(73) ConocoPhillips Company
(72) EICK, Peter M.
BREWER, Joel D.
JANISZEWSKI, Frank D.
(31) 422759 P
(32) 14.12.2010
(33) United States of America

(51) G01V 1/00
G01V 1/28
G01V 1/36
(11) EP3685190
(21) EP17801096.3
(47) 26.01.2022
(87) IB2017001336
21.03.2019
(22) 18.09.2017
(54) PROCESSING A 4D SEISMIC SIGNAL BASED ON NOISE MODEL
(73) TotalEnergies SE
(72) SHCHUKINA, Natalia
HUBANS, Christian

(51) G01V 1/36
(11) EP2920614
(21) EP13854562.9
(47) 26.01.2022
(87) US2013070671
22.05.2014
(22) 19.11.2013
(54) DEGHOSTING MEASURED SURVEY DATA
(73) WesternGeco Seismic Holdings Limited
(72) COATES, Richard T.
BEASLEY, Craig J.
(31) 201313773398
201261728189 P
(32) 21.02.2013
19.11.2012
(33) United States of America
United States of America

(51) G01V 1/38
G01V 1/18
G01V 1/20
(11) EP3436854
(21) EP17776341.4
(47) 26.01.2022
(87) US2017023938
05.10.2017
(22) 24.03.2017
(54) MARINE SEISMIC ACQUISITION SYSTEM
(73) Schlumberger Technology B.V.
(72) MOLDOVEANU, Nicolae
(31) 201662316101 P
(32) 31.03.2016
(33) United States of America

(51) G01V 3/08
G01V 3/12
G01V 15/00
(11) EP3325996
(21) EP16828660.7
(47) 26.01.2022
(87) US2016043720
26.01.2017
(22) 22.07.2016
(54) SYSTEM AND METHOD FOR LOCATING A MARKER USING A LOCATOR WITH MULTIPLE TRANSMITTERS
(73) Metrotech Corporation
(72) PETHERICK, Stephen John
(31) 201615216503
201562195736 P
(32) 21.07.2016
22.07.2015
(33) United States of America
United States of America

(51) G01V 3/08
G06F 3/046
G06F 3/0354
G06F 3/041
(11) EP3230771
(21) EP15805186.2
(47) 26.01.2022

(87) EP2015078814
16.06.2016
(22) 07.12.2015
(54) METHOD FOR LOCATING AT LEAST ONE MOVABLE MAGNETIC OBJECT AND ASSOCIATED SYSTEM
(73) Advanced Magnetic Interaction, AMI
(72) HAUTSON, Tristan
ALOUI, Rabeb
(31) 1462106
(32) 09.12.2014
(33) France

(51) G01V 3/15
G01V 3/08
(11) EP3341766
(21) EP16771023.5
(47) 26.01.2022
(87) US2016048774
02.03.2017
(22) 25.08.2016
(54) LOCATING DEVICES, SYSTEMS, AND METHODS USING FREQUENCY SUITES FOR UTILITY DETECTION
(73) SeeScan, Inc.
(72) MARTIN, Michael
RUTLEDGE, Austin
BENCH, Stephanie
WISECAVER, Paul
MEREWETHER, Ray
OLSSON, Mark
(31) 201562209824 P
(32) 25.08.2015
(33) United States of America

(51) G01V 13/00
G01V 3/28
(11) EP3492952
(21) EP18209775.8
(47) 26.01.2022
(22) 03.12.2018
(54) CALIBRATION OF ELECTROMAGNETIC MEASUREMENT TOOL
(73) Schlumberger Technology B.V.
(72) FREY, Mark
(31) 201762593321 P
(32) 01.12.2017
(33) United States of America

(51) G02B 5/18
G02B 6/12
G02B 6/122
G02B 6/124
G02B 6/136
G02B 6/34
G02B 6/42
(11) EP3872537
(21) EP20212582.9
(47) 26.01.2022
(22) 08.12.2020
(54) DEVICE FOR EMISSION OF ARBITRARY OPTICAL BEAM PROFILES FROM A CHIP TO FREE SPACE
(73) Honeywell International Inc.
(72) PUCKETT, Matthew Wade
NELSON, Karl D.
(31) 202016800877
(32) 25.02.2020
(33) United States of America

(51) G02B 6/00
F21V 8/00
G02B 6/42
G09F 9/305
G09F 9/33
(11) EP2643717
(21) EP11810779.6
(47) 26.01.2022
(87) AT2011000468
31.05.2012
(22) 17.11.2011
(54) COLOR-MIXING CONVERGENT OPTICAL SYSTEM
(73) Swarco Futurit Verkehrssignalsysteme Ges.m.b.H.
(72) ERNST, Wolfgang
OTTO, Alexander
SCHUCH, Michael
(31) 19512010
(32) 23.11.2010
(33) Austria

(51) G02B 6/00
G02B 6/24
H01P 3/16
H01L 31/054
G01S 17/48
H04N 5/232
(11) EP3465297
(21) EP17810827.0
(47) 26.01.2022
(87) US2017036086
14.12.2017
(22) 06.06.2017
(54) SCANNING DEVICE
(73) AMI Research & Development, LLC
(72) MOUYOS, William
APOSTOLOS, John T.
(31) 201762454393 P
201662346779 P
201662346757 P
(32) 03.02.2017
07.06.2016
07.06.2016
(33) United States of America
United States of America
United States of America

(51) G02B 6/02
G02B 6/04
G02B 6/028
G02B 6/036
(11) EP3239748
(21) EP15872247.0
(47) 26.01.2022
(87) JP2015006372
30.06.2016
(22) 22.12.2015
(54) METHOD FOR MANUFACTURING OPTICAL FIBER ROD
(73) Kuraray Co., Ltd.
(72) IWAKAWA, Ryuichi
(31) 2014262155
(32) 25.12.2014
(33) Japan

(51) G02B 6/122
G02B 6/125
G02B 6/28
G02B 6/293
G02B 6/12
(11) EP3203282
(21) EP15846939.5
(47) 26.01.2022
(87) JP2015004689
07.04.2016
(22) 15.09.2015
(54) RIB TYPE OPTICAL WAVEGUIDE AND OPTICAL MULTIPLEXER/ DEMULTIPLEXER USING SAME
(73) NEC Corporation
(72) NAKAMURA, Shigeru
KATO, Tomoaki
(31) 2014204120
(32) 02.10.2014
(33) Japan

(51) G02B 6/30
G02B 6/122
G02B 6/136
H01L 21/306
G02B 6/132
G02B 6/12
(11) EP3451032
(21) EP18188999.9
(47) 26.01.2022
(22) 14.08.2018
(54) SMOOTH WAVEGUIDE STRUCTURES AND MANFACTURING METHODS
(73) Juniper Networks, Inc.
(72) BAUTERS, Jared
FESHALI, Avi
HUTCHINSON, John
(31) 201715689296
(32) 29.08.2017
(33) United States of America

(51) G02B 6/36
G02B 6/42
(11) EP3441809
(21) EP18184677.5
(47) 26.01.2022
(22) 20.07.2018
(54) OPTICAL FIBER ASSEMBLY AND CONNECTION STRUCTURE OF OPTICAL FIBER ASSEMBLY AND ELECTRONIC DEVICE
(73) Hosiden Corporation
(72) SASADA, Kosukei
NAGATA, Takayuki
(31) 2017152146
(32) 07.08.2017
(33) Japan

(51) G02B 6/38
(11) EP3516438
(21) EP17769069.0
(47) 26.01.2022
(87) EP2017073629
29.03.2018
(22) 19.09.2017
(54) CONNECTOR AND METHOD FOR LOCKING AND/OR UNLOCKING MECHANISM OF A CONNECTOR
(73) Reichle & De-Massari AG
(72) ANDRES, Hans
(31) 102016117909
(32) 22.09.2016
(33) Germany

(51) G02B 6/38
(11) EP3745175
(21) EP20173208.8

(47) 26.01.2022
(22) 06.05.2020
(54) OPTICAL CONNECTOR
(73) YAZAKI CORPORATION
(72) Miyazaki, Hiroshi
Hikosaka, Tomohiro
(31) 2019098679
(32) 27.05.2019
(33) Japan

(51) G02B 6/38
G02B 6/02
G02B 6/42
(11) EP3394652
(21) EP16877821.5
(47) 26.01.2022
(87) DK2016050459
29.06.2017
(22) 22.12.2016
(54) PHOTONIC CRYSTAL FIBER ASSEMBLY
(73) NKT Photonics A/S
(72) LYNGSØE, Jens Kristian
JAKOBSEN, Christian
MAACK, Martin Dybendal
PAPIOR, Sidsel Rübner
MICHIELETTO, Mattia
ALKESKJOLD, Thomas Tanggaard
(31) 201570876
(32) 23.12.2015
(33) Denmark

(51) G02B 6/38
G02B 6/44
(11) EP3646088
(21) EP18743172.1
(47) 26.01.2022
(87) US2018039494
03.01.2019
(22) 26.06.2018
(54) MULTIPORT ASSEMBLIES INCLUDING RETENTION FEATURES
(73) Corning Research & Development Corporation
(72) WIMMER, Michael
ZHANG, Zhiye
ROSSON, Joel Christopher
WILCOX, Dayne
DANNOUX, Thierry Luc Alain
WOODY, Shane
SCOTTA, Felice
(31) 201762526195 P
201762526018 P
201762526011 P
(32) 28.06.2017
28.06.2017
28.06.2017
(33) United States of America
United States of America
United States of America

(51) G02B 6/38
H01R 13/46
(11) EP3258300
(21) EP17172114.5
(47) 26.01.2022
(22) 22.05.2017
(54) PLUG CONNECTOR
(73) Reichle & De-Massari AG
(72) SUZIC, Dusko
(31) 202016103178 U
(32) 16.06.2016
(33) Germany

(51) G02B 6/42
G02B 6/36
G02B 26/08
G02B 27/09
G02B 6/036
(11) EP3553575
(21) EP17879762.7
(47) 26.01.2022
(87) JP2017033804
21.06.2018
(22) 20.09.2017
(54) FIBER COUPLING DEVICE
(73) Panasonic Intellectual Property Management Co., Ltd.
(72) TAKENAKA, Yoshiaki
NISHIMURA, Hitoshi
WANG, Jingbo
RYUDO, Makoto
MUKAI, Yasushi
YAMAGUCHI, Hideaki
NISHIO, Masatoshi
EIZUMI, Kiyotaka
ISHIKAWA, Ryo
NAGAYASU, Doukei
(31) 2016240056
(32) 12.12.2016
(33) Japan

(51) G02B 7/02
F41G 1/38
G02B 23/14
G02B 23/16
G02B 27/36
F41G 1/34
(11) EP3273284
(21) EP17182613.4
(47) 26.01.2022
(22) 21.07.2017
(54) LONG RANGE OPTICAL DEVICE WITH A RETICLE
(73) Swarovski-Optik KG.
(72) HERMANN, Herbert
ZANGERL, Rene
DOHR, Mario
SALZBURGER, Thomas
THALER, Wilfried
(31) 506742016
(32) 22.07.2016
(33) Austria

(51) G02B 21/00
G02B 21/24
G02B 21/36
(11) EP3479157
(21) EP17734077.5
(47) 26.01.2022
(87) EP2017066135
04.01.2018
(22) 29.06.2017
(54) INCLINATION MEASUREMENT AND CORRECTION OF THE COVER GLASS IN THE OPTICAL PATH OF A MICROSCOPE
(73) Carl Zeiss Microscopy GmbH
(72) SIEBENMORGEN, Jörg
KALKBRENNER, Thomas
(31) 102016212019
(32) 01.07.2016
(33) Germany

(51) G02B 21/00
G02B 27/58
G02B 6/06
(11) EP2860566
(21) EP14185414.1
(47) 26.01.2022
(22) 18.09.2014
(54) High resolution scanning microscopy
(73) Carl Zeiss Microscopy GmbH
(72) Kalkbrenner, Thomas
Novikau, Yauheni
Netz, Ralf
Wolleschensky, Ralf
Kleppe, Ingo
(31) 102013015933
(32) 19.09.2013
(33) Germany

(51) G02B 21/16
G01N 21/17
G01N 21/64
G02B 21/36
(11) EP2418473
(21) EP10761751.6
(47) 26.01.2022
(87) JP2010056421
14.10.2010
(22) 09.04.2010
(54) ORGANISM SAMPLE OBSERVATION DEVICE
(73) Nikon Corporation
(72) KIYOTA Yasujiro
WATANABE Hirotada
WADA Yoichi
UOZUMI Takayuki
KOSHIBA Ryuji
KURODA Hideo
(31) 2009095505
(32) 10.04.2009
(33) Japan

(51) G02B 26/08
B81B 3/00
(11) EP2769256
(21) EP12780314.6
(47) 26.01.2022
(87) NL2012050704
18.04.2013
(22) 10.10.2012
(54) MEMS SCANNING MICROMIRROR
(73) Infineon Technologies AG
(72) SUIJLEN, Matthijs Alexander Gerard
VAN LIEROP, Hendrikus Wilhelmus Leonardus Antonius
VAN OS, Marijn Johannes
(31) 2007554
(32) 10.10.2011
(33) Netherlands

(51) G02B 26/12
G01S 7/481
G02B 5/09
(11) EP3792653
(21) EP19196895.7
(47) 26.01.2022
(22) 12.09.2019
(54) LASER SCANNER
(73) RIEGL Laser Measurement Systems GmbH
(72) PFENNIGBAUER, Martin

RIEGER, Peter
RIEGL, Johannes
REICHERT, Rainer

(51) G02B 27/00
H04N 13/30
G03H 1/26
B42D 25/435
B41M 5/26
B41M 3/14
B42D 25/373
H04N 13/324
(11) EP3729167
(21) EP19708853.7
(47) 26.01.2022
(87) EP2019055455
12.09.2019
(22) 05.03.2019
(54) METHOD FOR BUILDING A SECURITY IMAGE BY MULTIPLEXING COLOR IMAGES
(73) Centre National de la Recherche Scientifique
HID Global CID SAS
Université Jean Monnet Saint Etienne
(72) VANGHELUWE, Marie
HÉBERT, Mathieu
VERMEULIN, Alice
DESTOUCHES, Nathalie
(31) 1851892
(32) 05.03.2018
(33) France

(51) G02B 27/01
G02B 6/10
G02B 27/28
F21V 8/00
G02B 6/00
G02B 5/30
G02B 27/00
B29D 11/00
(11) EP3163357
(21) EP16202995.3
(47) 26.01.2022
(22) 08.02.2006
(54) SUBSTRATE-GUIDED OPTICAL DEVICE UTILIZING POLARISATION BEAM SPLITTERS
(73) Lumus Ltd
(72) AMITAI, Yaakov
(31) 16679905
(32) 10.02.2005
(33) Israel

(51) G02C 7/08
A61F 2/16
(11) EP3710885
(21) EP18807824.0
(47) 26.01.2022
(87) US2018059686
23.05.2019
(22) 07.11.2018
(54) FLEXIBLE BARRIER LAYER INCLUDING SUPERELASTIC ALLOYS
(73) Verily Life Sciences LLC
(72) KUIPER, Stein
OTTS, Daniel
(31) 201762587279 P
(32) 16.11.2017
(33) United States of America

(51) G02F 1/01
H04B 10/516
G02F 1/225
(11) EP3605205
(21) EP18771380.5
(47) 26.01.2022
(87) JP2018011156
27.09.2018
(22) 20.03.2018
(54) IQ OPTICAL MODULATOR
(73) Nippon Telegraph And Telephone Corporation
(72) UEDA Yuta
OZAKI Josuke
OGISO Yoshihiro
(31) 2017056626
(32) 22.03.2017
(33) Japan

(51) G02F 1/1333
G02F 1/1335
G02F 1/13357
(11) EP3647860
(21) EP19194834.8
(47) 26.01.2022
(22) 02.09.2019
(54) DISPLAY APPARATUS
(73) Samsung Electronics Co., Ltd.
(72) KIM, Daeyoung
YOO, Yongsung
LEE, Kilhong
KIM, Hyungki
JEON, Taehee
JEON, Dukjin
(31) 20180130434
(32) 30.10.2018
(33) Korea (Republic)

(51) G02F 1/1335
(11) EP3591461
(21) EP19177116.1
(47) 26.01.2022
(22) 28.05.2019
(54) DISPLAY APPARATUS
(73) Samsung Electronics Co., Ltd.
(72) ROH, Namseok
MIN, Kwansik
CHO, Byoungjin
LEE, Youngchol
(31) 20180078764
(32) 06.07.2018
(33) Korea (Republic)

(51) G02F 1/1368
G02F 1/1362
G02F 1/133
G09G 3/36
(11) EP3584631
(21) EP17896430.0
(47) 26.01.2022
(87) CN2017077090
23.08.2018
(22) 17.03.2017
(54) LCD ARRAY SUBSTRATE, LCD PANEL, AND LCD PIXEL CIRCUIT
(73) Shenzhen China Star Optoelectronics Technology Co. Ltd.
(72) AN, Liyang
(31) 201710082276
(32) 15.02.2017
(33) China

(51) G02F 1/39
H04L 9/08
(11) EP3572870
(21) EP19176175.8
(47) 26.01.2022
(22) 23.05.2019
(54) METHOD FOR ENTANGLED PHOTON DISTRIBUTION WITH SPACE-DIVISION DE-MULTIPLEXING
(73) Österreichische Akademie der Wissenschaften
(72) STEINLECHNER, Fabian
(31) 18174171
(32) 24.05.2018
(33) European Patent Office (EPO)

(51) G03B 9/08
G03B 11/04
G03B 17/02
H04N 5/225
G06F 3/16
H04N 5/63
(11) EP3227752
(21) EP15865374.1
(47) 26.01.2022
(87) US2015064156
09.06.2016
(22) 06.12.2015
(54) COMPUTING DEVICE CAMERA VIEW CONTROLLER AND SHUTTER
(73) Harman Professional, Inc.
(72) ROBINSON, Shaun
SERENO, Miguel Alejandro
(31) 201414561753
(32) 05.12.2014
(33) United States of America

(51) G03F 1/00
G03F 1/20
G03F 7/20
(11) EP3025194
(21) EP14742345.3
(47) 26.01.2022
(87) GB2014052224
29.01.2015
(22) 21.07.2014
(54) METHOD OF FORMING A DESIRED PATTERN ON A SUBSTRATE
(73) Vestlandets Innovasjonsselskap AS
(72) HOLST, Bodil
(31) 201313054
(32) 22.07.2013
(33) United Kingdom

(51) G03F 1/84
G03F 7/20
(11) EP3086175
(21) EP15164693.2
(47) 26.01.2022
(22) 22.04.2015
(54) METHOD FOR HOTSPOT DETECTION AND RANKING OF A LITHOGRAPHIC MASK
(73) IMEC VZW
(72) Leray, Philippe
Van Den Heuvel, Dieter
Halder, Sandip
Truffert, Vincent

(51) G03G 9/09
G03G 9/08
(11) EP3355120
(21) EP17210836.7

(47) 26.01.2022
(22) 28.12.2017
(54) TONER AND IMAGE FORMATION METHOD
(73) Konica Minolta, Inc.
(72) Kawasaki, Hidekazu
Takahashi, Seijiro
(31) 2017015618
(32) 31.01.2017
(33) Japan

(51) G03G 15/00
(11) EP2863264
(21) EP14182943.2
(47) 26.01.2022
(22) 29.08.2014
(54) Image forming apparatus and method for reducing image banding of the image forming apparatus
(73) Hewlett-Packard Development Company, L.P.
(72) Woo, Sang Bum
Sung, Chang Yong
Kim, Soo Yong
Yu, Jae Il
(31) 20130123977
(32) 17.10.2013
(33) Korea (Republic)

(51) G03G 15/00
G03G 15/08
G03G 21/18
G03G 21/16
(11) EP3690548
(21) EP20156293.1
(47) 26.01.2022
(22) 18.03.2016
(54) ELECTROPHOTOGRAPHIC IMAGE FORMING APPARATUS
(73) Hewlett-Packard Development Company, L.P.
(72) SIM, Yun-kyu
KANG, Sung-wook
KIM, Young-chae
MOON, Ji-won
KIM, Joon-hee
KIM, Jin-hong
KIM, Sung gi
(31) 20150124231
(32) 02.09.2015
(33) Korea (Republic)

(51) G03G 15/06
G03G 21/16
(11) EP3176640
(21) EP15838867.8
(47) 26.01.2022
(87) KR2015004062
10.03.2016
(22) 23.04.2015
(54) IMAGE FORMING APPARATUS
(73) Hewlett-Packard Development Company, L.P.
(72) LEE, Han Jun
CHOI, Mun Hyub
(31) 20140117001
(32) 03.09.2014
(33) Korea (Republic)

(51) G03G 15/08
(11) EP2796933
(21) EP14165631.4
(47) 26.01.2022
(22) 23.04.2014
(54) Toner cartridge and image forming apparatus incorporating same
(73) Ricoh Company, Ltd.
(72) Nodera, Kentaro
Koshizuka, Shinnosuke
Kikuchi, Teppei
Kosugi, Hideki
Kubo, Tatsuya
Fujimori, Akira
(31) 2013264285
2013092129
(32) 20.12.2013
25.04.2013
(33) Japan
Japan

(51) G03G 15/08
(11) EP3762784
(21) EP18927809.6
(47) 26.01.2022
(87) KR2018015226
30.01.2020
(22) 04.12.2018
(54) STRUCTURE FOR RELEASING INTERNAL PRESSURE IN DEVELOPMENT CARTRIDGE WHEN REFILLING TONER
(73) Hewlett-Packard Development Company, L.P.
(72) MOON, Ji Won
HONG, Jin Hwa
AHN, Yong Nam
LEE, Seung Gweon
MOON, Yong Il
CHOI, Woong Yong
(31) 20180087217
(32) 26.07.2018
(33) Korea (Republic)

(51) G03G 15/08
G03G 21/12
(11) EP3255502
(21) EP16206973.6
(47) 26.01.2022
(22) 27.12.2016
(54) TONER CONTAINER, IMAGE FORMING APPARATUS
(73) Kyocera Document Solutions Inc.
(72) Takenaka, Hidenori
Nagashima, Teruhiko
(31) 2016114512
(32) 08.06.2016
(33) Japan

(51) G03G 21/16
(11) EP3722883
(21) EP20162142.2
(47) 26.01.2022
(22) 10.03.2020
(54) PROCESS CARTRIDGE AND IMAGE FORMING APPARATUS
(73) Toshiba TEC Kabushiki Kaisha
(72) KOJIMA, Takahiro
MATSUSHIMA, Toshihiro
(31) 2019218802
2019055496
(32) 03.12.2019
22.03.2019
(33) Japan

Japan

(51) G03G 21/16
G03G 21/18
(11) EP3674813
(21) EP20151506.1
(47) 26.01.2022
(22) 22.08.2016
(54) DEVELOPING CARTRIDGE
(73) BROTHER KOGYO KABUSHIKI KAISHA
(72) YOKOI, Junichi
ITABASHI, Nao

(51) G04B 1/12
G04B 1/18
G04B 1/22
(11) EP3580618
(21) EP18706317.7
(47) 26.01.2022
(87) IB2018050834
16.08.2018
(22) 12.02.2018
(54) TIMEPIECE DRIVING ORGAN
(73) Patek Philippe SA Genève
(72) LE BRIS, Jean-Baptiste
(31) 17155883
(32) 13.02.2017
(33) European Patent Office (EPO)

(51) G04B 3/04
G04B 37/10
G04F 7/08
(11) EP3742235
(21) EP19176219.4
(47) 26.01.2022
(22) 23.05.2019
(54) PUSH BUTTON SYSTEM, AND TIMEPIECE COMPRISING SAME
(73) Meco S.A.
(72) AVRIL, Hervé
GEISER, Samuel

(51) G04B 9/02
G04B 21/10
G04B 23/12
G04B 31/08
G04D 3/00
G04B 21/14
(11) EP3435176
(21) EP17207336.3
(47) 26.01.2022
(22) 14.12.2017
(54) TORQUE SMOOTHING FOR TIMEPIECE WITH CHIMING MECHANISM, IN PARTICULAR WITH CHIMING MECHANISM
(73) Blancpain SA
(72) REYMOND, Cédric
PETER, Julien
(31) 17182973
(32) 25.07.2017
(33) European Patent Office (EPO)

(51) G04B 17/04
G04B 31/02
G04B 43/00
(11) EP3561606
(21) EP18169741.8
(47) 26.01.2022
(22) 27.04.2018

(54) SHOCK PROTECTION OF A LEAF SPRING RESONATOR WITH RCC PIVOT
(73) The Swatch Group Research and Development Ltd
(72) Born, Jean-Jacques

(51) G04B 19/08
G04B 19/20
(11) EP3430482
(21) EP17712847.7
(47) 26.01.2022
(87) IB2017051511
21.09.2017
(22) 15.03.2017
(54) MECHANISM FOR A WATCH MOVEMENT
(73) G. et F. Châtelain, succursale de Chanel SARL
(72) WATRELOT, Guilhem
GERBER, Yves
MOJON, Sébastien
(31) 3502016
(32) 15.03.2016
(33) Switzerland

(51) G04B 19/10
G04B 19/18
G04D 3/00
B22D 19/00
B21J 1/00
(11) EP2370865
(21) EP09760860.8
(47) 26.01.2022
(87) EP2009065910
03.06.2010
(22) 26.11.2009
(54) Three-dimensional decoration method
(73) The Swatch Group Research and Development Ltd.
(72) BOURBAN, Stewes
WINKLER, Yves
GROSSENBACHER, Pascal
(31) 08020713
(32) 28.11.2008
(33) European Patent Office (EPO)

(51) G04B 19/26
G04B 13/00
(11) EP3740821
(21) EP19704047.0
(47) 26.01.2022
(87) IB2019050286
25.07.2019
(22) 15.01.2019
(54) TIMEPIECE MECHANISM FOR THE DISPLAY OF INFORMATION
(73) Patek Philippe SA Genève
(72) LEMONNIER, Marc
(31) 18152022
(32) 17.01.2018
(33) European Patent Office (EPO)

(51) G04B 21/08
G10F 1/06
(11) EP3540527
(21) EP18162207.7
(47) 26.01.2022
(22) 16.03.2018
(54) MUSICAL KEYBOARD FOR A CHIMING MECHANISM OF A TIMEPIECE
(73) Montres Breguet S.A.
(72) KARAPATIS, Polychronis Nakis
KADMIRI, Younes

(51) G04G 13/02
(11) EP3382474
(21) EP18160685.6
(47) 26.01.2022
(22) 08.03.2018
(54) INFORMATION PROCESSING APPARATUS, INFORMATION PROCESSING SYSTEM, AND INFORMATION PROCESSING METHOD
(73) Yamaha Corporation
(72) Kano, Masaya
(31) 2017058379
(32) 24.03.2017
(33) Japan

(51) G05B 9/02
G05B 19/042
G05B 19/048
(11) EP3422121
(21) EP18172056.6
(47) 26.01.2022
(22) 14.05.2018
(54) WIRELESS EMERGENCY STOP SYSTEMS AND CORRESPONDING METHODS OF OPERATING A WIRELESS EMERGENCY STOP SYSTEM FOR A MACHINE SAFETY INTERFACE
(73) Cattron North America, Inc.
(72) Stagg, David
(31) 201715664606
201762527853 P
(32) 31.07.2017
30.06.2017
(33) United States of America
United States of America

(51) G05B 13/02
G01N 27/90
G01N 29/04
(11) EP3561614
(21) EP18168816.9
(47) 26.01.2022
(22) 23.04.2018
(54) PROCESS FOR TRAINING A SELF-LEARNING MACHINE IN A DEFECT MONITORING SYSTEM
(73) Sensima Inspection Sàrl
(72) Lany, Marc
Frédéric, Monnier
Santi, Gilles
Revaz, Bernard

(51) G05B 19/042
C01B 13/11
(11) EP3646124
(21) EP18737846.8
(47) 26.01.2022
(87) EP2018067519
03.01.2019
(22) 29.06.2018
(54) METHOD FOR CONTROLLING AN OZONE GENERATING MACHINE
(73) SUEZ Groupe
(72) RAMOINO, Luca
SCHERRER, Tito
BERCHTOLD, Martin
(31) 17305838
(32) 30.06.2017
(33) European Patent Office (EPO)

(51) G05B 19/042
G05B 23/02
G06F 13/42
H04L 12/24
H04L 12/26
(11) EP3575902
(21) EP19177005.6
(47) 26.01.2022
(22) 28.05.2019
(54) DISRUPTIONLESS MESSAGE CAPTURING WITHIN AN INDUSTRIAL CONTROL SYSTEM
(73) Schneider Electric Systems USA, Inc.
(72) Kumar, Naveen
Mendu, Krishna R.
Hu, Christopher
Linscott, Richard Linwood
(31) 201862677414 P
(32) 29.05.2018
(33) United States of America

(51) G05B 19/05
H02H 7/08
H02P 29/02
(11) EP2972608
(21) EP14720725.2
(47) 26.01.2022
(87) US2014022259
02.10.2014
(22) 10.03.2014
(54) METHOD AND APPARATUS FOR MONITORING MOTOR CURRENT FOR AN ELECTRIC VALVE POSITIONER
(73) Fisher Controls International LLC
(72) EISENBEIS, Clyde, T.
(31) 201361785139 P
(32) 14.03.2013
(33) United States of America

(51) G05B 19/18
G05B 19/41
B23F 1/00
B23F 23/12
B23F 1/02
(11) EP3242175
(21) EP17166807.2
(47) 26.01.2022
(22) 18.04.2017
(54) METHOD FOR COGGING A WORKPIECE
(73) Liebherr-Verzahntechnik GmbH
(72) Würfel, Robert
(31) 102016005257
(32) 28.04.2016
(33) Germany

(51) G05B 19/401
B25J 9/16
G06F 3/041
(11) EP3602214
(21) EP17902752.9
(47) 26.01.2022
(87) CN2017078263
04.10.2018
(22) 27.03.2017
(54) METHOD AND APPARATUS FOR ESTIMATING SYSTEM ERROR OF COMMISSIONING TOOL OF INDUSTRIAL ROBOT

(73) ABB Schweiz AG
(72) GU, Hao
TIAN, Jihuan
LI, Cheng

(51) G05B 19/4097
G05B 19/4103
(11) EP3776111
(21) EP19845913.3
(47) 26.01.2022
(87) JP2019051647
01.10.2020
(22) 25.12.2019
(54) SYSTEM AND METHOD FOR GENERATING OPTIMAL LATTICE TOOL PATHS
(73) MITSUBISHI ELECTRIC CORPORATION
(72) BRAND, Matthew
(31) 201916368148
(32) 28.03.2019
(33) United States of America

(51) G05B 19/4099
(11) EP3572892
(21) EP19175346.6
(47) 26.01.2022
(22) 20.05.2019
(54) ROBOTIC ARM ASSEMBLY CONSTRUCTION
(73) General Electric Company
(72) GRAHAM, Andrew
DIWINSKY, David
(31) 201815986978
(32) 23.05.2018
(33) United States of America

(51) G05B 19/418
H04L 12/24
(11) EP3598255
(21) EP18183958.0
(47) 26.01.2022
(22) 17.07.2018
(54) ARRANGEMENT WITH OPERATOR SERVERS AND WITH OPERATOR CLIENTS
(73) Siemens Aktiengesellschaft
(72) Hoffmann, Markus
Lutz, Benjamin
Engert, Ralf

(51) G05B 23/00
G01H 5/00
G01N 29/46
G01N 29/24
G01N 29/14
(11) EP2909685
(21) EP13848354.0
(47) 26.01.2022
(87) IL2013050825
01.05.2014
(22) 14.10.2013
(54) AUTOMATIC MECHANICAL SYSTEM DIAGNOSIS
(73) Augury Systems Ltd.
(72) SHAUL, Gal
YOSKOVITZ, Saar
(31) 201213657037
(32) 22.10.2012
(33) United States of America

(51) G05B 23/02
(11) EP2827209
(21) EP14176673.3
(47) 26.01.2022
(22) 11.07.2014
(54) System and method for assessing cumulative effects of a failure in an aircraft
(73) The Boeing Company
(72) King, Kevin
Fucke, Lars
Fogarty, Daniel J.
Petri, Tyler J.
Nicholson, Roger
Jones, David H.
Douglas, Chad R.
Fricks, Ricardo M.
Sweeney, Stephen
(31) 201313941785
(32) 15.07.2013
(33) United States of America

(51) G05B 23/02
F03D 1/00
(11) EP2710437
(21) EP12733515.6
(47) 26.01.2022
(87) GB2012051153
29.11.2012
(22) 21.05.2012
(54) DETERMINING REMAINING USEFUL LIFE OF ROTATING MACHINERY INCLUDING DRIVE TRAINS, GEARBOXES, AND GENERATORS
(73) Insight Analytics Solutions Holdings Limited
(72) MA, Xiaoqin
COULTATE, John Karl
POON, Andy
GOLYSHEVA, Evgenia
(31) 201110360
201110003
201108476
(32) 20.06.2011
14.06.2011
20.05.2011
(33) United Kingdom
United Kingdom
United Kingdom

(51) G05B 23/02
G05B 19/042
G05B 19/409
(11) EP3140709
(21) EP15724455.9
(47) 26.01.2022
(87) US2015029906
12.11.2015
(22) 08.05.2015
(54) AUTOMATION OPERATING AND MANAGEMENT SYSTEM
(73) BEET, Inc.
(72) WANG, David Jingqiu
(31) 201514705421
201461990172 P
201461990170 P
201461990169 P
201461990163 P
201461990159 P
201461990158 P
201461990156 P
201461990151 P
201461990148 P
(32) 06.05.2015
08.05.2014
08.05.2014
08.05.2014
08.05.2014
08.05.2014
08.05.2014
08.05.2014
08.05.2014
08.05.2014
(33) United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America

(51) G05B 23/02
H01L 21/00
(11) EP3499331
(21) EP18195845.5
(47) 26.01.2022
(22) 21.09.2018
(54) MONITORING SYSTEM, LEARNING APPARATUS, LEARNING METHOD, MONITORING APPARATUS, AND MONITORING METHOD
(73) OMRON CORPORATION
(72) EGAMI, Shin
KOYAMA, Hiroki
FUJII, Toru
OTA, Yuya
TSURUTA, Kosuke
(31) 2017238786
(32) 13.12.2017
(33) Japan

(51) G05D 1/00
(11) EP3347783
(21) EP16741284.0
(47) 26.01.2022
(87) EP2016066855
16.03.2017
(22) 15.07.2016
(54) METHOD AND DEVICE FOR DRIVERLESSLY GUIDING A MOTOR VEHICLE PARKED AT A STARTING POSITION OF A PARKING SPACE
(73) Robert Bosch GmbH
(72) AURACHER, Juergen
HOFFMANN, Stefan
NICODEMUS, Rolf
NORDBRUCH, Stefan
(31) 102015217278
(32) 10.09.2015
(33) Germany

(51) G05D 1/02
(11) EP3735622
(21) EP18830072.7
(47) 26.01.2022
(87) US2018063760
11.07.2019
(22) 04.12.2018

(54) ADJUSTABLE OBJECT AVOIDANCE PROXIMITY THRESHOLD OF A ROBOTIC VEHICLE BASED ON PRESENCE OF DETECTED PAYLOAD(S)
(73) QUALCOMM INCORPORATED
(72) MELLINGER, Daniel Warren III
TAVEIRA, Michael Franco
(31) 201815860897
(32) 03.01.2018
(33) United States of America

(51) G05D 1/02
B60W 40/08
G06K 9/62
G06N 20/00
G06Q 10/00
G08G 1/01
G08G 1/04
G08G 1/16
G07C 5/08
G06K 9/00
(11) EP3638542
(21) EP18772853.0
(47) 26.01.2022
(87) IB2018000748
20.12.2018
(22) 18.06.2018
(54) SYSTEM AND METHOD FOR CONTEXTUALIZED VEHICLE OPERATION DETERMINATION
(73) Nauto, Inc.
(72) LEVKOVA, Ludmilla
THOMPSON, Alex
SATZODA, Ravi, Kumar
SATHYANARAYANA, Suchitra
GLEESON-MAY, Michael
(31) 201762521091 P
(32) 16.06.2017
(33) United States of America

(51) G05D 1/02
G06K 9/00
(11) EP3454158
(21) EP18189895.8
(47) 26.01.2022
(22) 21.08.2018
(54) METHOD AND DEVICE FOR NAVIGATION OF AN INDUSTRIAL TRUCK
(73) STILL GmbH
(72) ABEL, Bengt
SCHÜTHE, Dennis
(31) 102017121000
(32) 12.09.2017
(33) Germany

(51) G05D 1/02
G08G 5/00
(11) EP3735623
(21) EP18830336.6
(47) 26.01.2022
(87) US2018063752
11.07.2019
(22) 04.12.2018
(54) ADJUSTABLE OBJECT AVOIDANCE PROXIMITY THRESHOLD BASED ON PRESENCE OF PROPELLER GUARD(S)
(73) QUALCOMM INCORPORATED
(72) MELLINGER III, Daniel Warren
TAVEIRA, Michael Franco
(31) 201815860821
(32) 03.01.2018
(33) United States of America

(51) G05D 7/01
F16K 1/44
F16K 31/14
F16K 27/02
(11) EP3418847
(21) EP18177248.4
(47) 26.01.2022
(22) 24.03.2016
(54) FLOW REGULATION VALVE
(73) Honeywell Technologies Sarl
(72) Hynek, Marcel

(51) G05D 16/06
F16K 31/12
F24D 19/10
(11) EP3736654
(21) EP20173248.4
(47) 26.01.2022
(22) 06.05.2020
(54) PRESSURE REDUCER
(73) Pittway Sarl
(72) Weidner, Kurt
(31) 102019111981
(32) 08.05.2019
(33) Germany

(51) G05D 16/10
(11) EP3507669
(21) EP17755549.7
(47) 26.01.2022
(87) EP2017071638
08.03.2018
(22) 29.08.2017
(54) COMPACT AND PRESSURE COMPENSATED GAS PRESSURE REGULATOR
(73) ROTAREX S.A.
(72) SELEN, Stephan
SCHMITZ, Philippe
(31) 93187
(32) 31.08.2016
(33) Luxembourg

(51) G05F 3/24
G01K 7/01
G05F 3/30
(11) EP3721314
(21) EP18829584.4
(47) 26.01.2022
(87) US2018063911
13.06.2019
(22) 04.12.2018
(54) PROGRAMMABLE TEMPERATURE COEFFICIENT ANALOG SECOND-ORDER CURVATURE COMPENSATED VOLTAGE REFERENCE AND TRIM TECHNIQUES FOR VOLTAGE REFERENCE CIRCUITS
(73) Xilinx, Inc.
(72) WALSH, Darragh
CICAL, Ionut, C.
KAMATH, Umanath, R.
JENNINGS, John, K.
CULLEN, Edward
(31) 201715848357
201715832515
(32) 20.12.2017
05.12.2017
(33) United States of America
United States of America

(51) G06F 1/16
(11) EP3602232
(21) EP17804998.7
(47) 26.01.2022
(87) US2017059009
27.09.2018
(22) 30.10.2017
(54) AUDIO OUTPUT DEVICE AND AUDIO OUTPUT PORT OF COMPUTING DEVICE
(73) Google LLC
(72) NÚÑEZ, Bernardo
SAINI, Vivek
LAM, Lawrence
(31) 201715465301
(32) 21.03.2017
(33) United States of America

(51) G06F 1/20
G06F 1/16
(11) EP3440529
(21) EP16898105.8
(47) 26.01.2022
(87) US2016026202
12.10.2017
(22) 06.04.2016
(54) COVER FOR AN ELECTRONIC DEVICE
(73) Hewlett-Packard Development Company, L.P.
(72) YEH, Ya-Ting
WU, Kuan-Ting
VOSS, Kevin
LI, Ai-Tsung
DELPIER, Michael

(51) G06F 1/20
H05K 7/20
H05K 7/14
(11) EP3518635
(21) EP18189254.8
(47) 26.01.2022
(22) 16.08.2018
(54) DESIGN TO EXPAND PANEL PORT NUMBER
(73) Quanta Computer Inc.
(72) SU, Chin-Lung
CHEN, Chih-Chung
(31) 201815960939
201862623718 P
(32) 24.04.2018
30.01.2018
(33) United States of America
United States of America

(51) G06F 1/28
H02J 7/00
G06F 1/3212
(11) EP3575923
(21) EP17897779.9
(47) 26.01.2022
(87) JP2017047154
30.08.2018
(22) 28.12.2017
(54) INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, AND PROGRAM
(73) Sony Group Corporation
(72) SAKAMOTO, Noriaki

MIZUKAMI, Tomoo
KAWARAZAKI, Shota
KOBAYASHI, Yoshiyuki
NAKAGAWA, Ryo
TSUJIKAWA, Tomonobu
(31) 2017034158
(32) 24.02.2017
(33) Japan

(51) G06F 1/32
G06F 13/38
H04W 52/02
G06F 1/3234
G06F 1/3287
H04W 4/60
(11) EP3531238
(21) EP19162655.5
(47) 26.01.2022
(22) 15.12.2014
(54) POWER SAVING TECHNIQUES IN COMPUTING DEVICES
(73) Qualcomm Incorporated
(72) Babbar, Uppinder Singh
Krishnamurthy, Arunn Coimbatore
Krishnamoorthy, Muralidhar Coimbatore
Sukumar, Hariharan
Pius, Roshan
Maheshwari, Shailesh
Kumar, Vanitha Aravamudhan
Klacar, Neven
Danaila, Andrei
Mitra, Alok
Kaushik, Vinod, Harimohan
Kumar, Vaibhav
(31) 201414568694
201462019073 P
201361916498 P
(32) 12.12.2014
30.06.2014
16.12.2013
(33) United States of America
United States of America
United States of America

(51) G06F 3/00
(11) EP3281086
(21) EP15888113.6
(47) 26.01.2022
(87) CN2015075994
13.10.2016
(22) 07.04.2015
(54) AVATAR KEYBOARD
(73) INTEL Corporation
(72) LI, Wenlong
ZENG, Fucen
LORENZO, Jose Elmer S.

(51) G06F 3/01
G06F 3/0346
G06F 3/038
(11) EP3559789
(21) EP17854227.0
(47) 26.01.2022
(87) US2017066906
28.06.2018
(22) 18.12.2017
(54) MAGNETIC INTERFERENCE DETECTION AND CORRECTION
(73) Microsoft Technology Licensing, LLC
(72) SKARIA, Simon
FULLAM, Scott Francis
MILLER, Quentin Simon Charles
VELAT, Steven James
CHERKASHIN, Lev
(31) 201715495618
201662438309 P
(32) 24.04.2017
22.12.2016
(33) United States of America
United States of America

(51) G06F 3/01
G06F 3/0481
(11) EP3443489
(21) EP17796431.9
(47) 26.01.2022
(87) KR2017004955
16.11.2017
(22) 12.05.2017
(54) METHOD AND APPARATUS FOR PROVIDING CONTENT NAVIGATION
(73) Samsung Electronics Co., Ltd.
(72) MARTINEAU, Justin
CURREY, Jonathan J.
(31) 201715435186
201662335458 P
(32) 16.02.2017
12.05.2016
(33) United States of America
United States of America

(51) G06F 3/01
G06T 7/00
G06T 19/00
H04R 29/00
G02B 27/01
(11) EP3345073
(21) EP16751426.4
(47) 26.01.2022
(87) US2016044951
09.03.2017
(22) 01.08.2016
(54) LOCALIZING DEVICES IN AN AUGMENTED REALITY ENVIRONMENT
(73) Microsoft Technology Licensing, LLC
(72) ALT, Gregory
SADAK, Christian
MUEHLHAUSEN, Andrew Frederick
GIRALDI, Riccardo
HEUVEL, Joseph van den
HELD, Robert Thomas
CHUA, Michelle
GAVRILIUC, Anatolie
OMOTANI, Todd Alan
WIFALL, Richard J.
(31) 201514843596
(32) 02.09.2015
(33) United States of America

(51) G06F 3/041
(11) EP3702893
(21) EP18884386.6
(47) 26.01.2022
(87) CN2018114062
06.06.2019
(22) 06.11.2018
(54) TOUCH SENSING SIGNAL PROCESSING METHOD AND SYSTEM
(73) Guangzhou Shirui Electronics Co., Ltd.
Guangzhou Shiyuan Electronics Co., Ltd.
(72) HE, Xin
(31) 201711225565
(32) 29.11.2017
(33) China

(51) G06F 3/041
G06F 3/044
(11) EP3324276
(21) EP17178875.5
(47) 26.01.2022
(22) 29.06.2017
(54) TOUCH INPUT DEVICE
(73) Hideep Inc.
(72) KIM, Seyeob
CHOI, Hyukjae
KIM, Bonkee
(31) 20160155875
(32) 22.11.2016
(33) Korea (Republic)

(51) G06F 3/042
(11) EP3724749
(21) EP18833941.0
(47) 26.01.2022
(87) FR2018053306
20.06.2019
(22) 14.12.2018
(54) DEVICE FOR AUGMENTED REALITY APPLICATION
(73) Société BIC
(72) ROUDAUT, Etienne
FOLGOAS, Loïc
(31) 1762132
(32) 14.12.2017
(33) France

(51) G06F 3/044
G06F 3/041
(11) EP3301554
(21) EP17192045.7
(47) 26.01.2022
(22) 20.09.2017
(54) TOUCH DISPLAY DEVICE
(73) LG Display Co., Ltd.
(72) KIM, TaeHoon
CHUNG, Jinsoo
YOO, JunWook
SEO, JeongKil
LEE, DongHoon
(31) 20160125600
(32) 29.09.2016
(33) Korea (Republic)

(51) G06F 3/044
H03K 17/96
(11) EP3140720
(21) EP14891222.3
(47) 26.01.2022
(87) CN2014076848
12.11.2015
(22) 06.05.2014
(54) CAPACITIVE TOUCH SENSOR AND METHOD
(73) Texas Instruments Incorporated
(72) SHEN, Ge
ZHANG, Jun
ZHOU, Yi
MENG, Hao
JI, Rujun
XU, Kangcheng

(51) G06F 3/046
H03K 17/955

G06F 3/041
(11) EP3167355
(21) EP15747268.9
(47) 26.01.2022
(87) US2015039279
14.01.2016
(22) 07.07.2015
(54) 3D GESTURE RECOGNITION
(73) Microsoft Technology Licensing, LLC
(72) GILAD-BACHRACH, Ran
ALANIS REYES, Eden Alejandro
THAI, Trang T.
LYMBEROPOULOS, Dimitrios
DEJEAN, Gerald Reuben II
(31) 201414329875
(32) 11.07.2014
(33) United States of America

(51) G06F 3/06
G06F 12/02
(11) EP3176688
(21) EP16176480.8
(47) 26.01.2022
(22) 23.12.2013
(54) METHOD AND SYSTEM FOR ASYNCHRONOUS DIE OPERATIONS IN A NON-VOLATILE MEMORY
(73) SanDisk Technologies LLC
(72) THOMAS, Nicholas, James
SINCLAIR, Alan, Welsh
WRIGHT, Barry
(31) 201313827499
201313827351
201313826848
201313827038
201261747916 P
201261747646 P
201261747892 P
201261747896 P
(32) 14.03.2013
14.03.2013
14.03.2013
14.03.2013
31.12.2012
31.12.2012
31.12.2012
31.12.2012
(33) United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America

(51) G06F 3/12
G06Q 10/04
G06Q 30/02
(11) EP3483719
(21) EP18204280.4
(47) 26.01.2022
(22) 05.11.2018
(54) MECHANISM TO PREDICT PRINT PERFORMANCE USING PRINT METADATA
(73) Ricoh Company, Ltd.
(72) KAHWAJI, Omar
JACKSON, Ryan
(31) 201715806594
(32) 08.11.2017
(33) United States of America

(51) G06F 3/14
(11) EP3137985
(21) EP15730892.5
(47) 26.01.2022
(87) US2015032518
03.12.2015
(22) 27.05.2015
(54) METHOD AND SYSTEM TO CREATE A RENDERING PIPELINE
(73) Apple Inc.
(72) AVKAROGULLARI, Gokhan
SUNALP, Eric, O.
KAN, Alexander, K.
SCHREYER, Richard, W.
(31) 201414501933
201462005131 P
(32) 30.09.2014
30.05.2014
(33) United States of America
United States of America

(51) G06F 7/487
G06F 7/523
(11) EP3674883
(21) EP18858914.7
(47) 26.01.2022
(87) CN2018106559
28.03.2019
(22) 19.09.2018
(54) MULTIPLICATION CIRCUIT, SYSTEM ON CHIP, AND ELECTRONIC DEVICE
(73) Huawei Technologies Co., Ltd.
(72) TIAN, Qinglin
XU, Bin
WANG, Kaixing
(31) 201710852544
(32) 19.09.2017
(33) China

(51) G06F 7/58
(11) EP3751410
(21) EP20189059.7
(47) 26.01.2022
(22) 07.03.2017
(54) RANDOM NUMBER GENERATION AND ACQUISITION METHOD AND DEVICE
(73) Advanced New Technologies Co., Ltd.
(72) WEN, Jiaxiang
(31) 201610152995
(32) 17.03.2016
(33) China

(51) G06F 8/36
G06F 16/93
(11) EP3561665
(21) EP18168773.2
(47) 26.01.2022
(22) 23.04.2018
(54) METHOD AND DEVICE FOR THE COMPUTER-ASSISTED CONFIGURING OF A TECHNICAL SYSTEM
(73) Siemens Aktiengesellschaft
(72) Fiegert, Michael
Feiten, Wendelin

(51) G06F 8/41
G06F 21/51
G06F 21/62
(11) EP2909775
(21) EP13848027.2
(47) 26.01.2022
(87) US2013065799
24.04.2014
(22) 18.10.2013
(54) MOBILE APPLICATION MANAGEMENT
(73) McAfee, LLC
(72) KRISHNAPUR, Venkatasubrahmanyam
NALLURI, Srikanth
KULKARNI, Dattatraya
SINHA, Raja
NAGARAJAN, Venkata Krishnan
DHRUW, Kaushal Kumar
HALDER, Kamlesh
(31) 1215KO2012
(32) 19.10.2012
(33) India

(51) G06F 9/44
H04L 9/32
G06F 21/32
G06F 3/041
G06K 9/00
G06G 5/00
G06F 3/0481
G09G 5/00
(11) EP3416050
(21) EP16925985.0
(47) 26.01.2022
(87) CN2016112073
05.07.2018
(22) 26.12.2016
(54) METHOD AND DEVICE FOR GUIDING FINGERPRINT RECOGNITION
(73) Shenzhen Goodix Technology Co., Ltd.
(72) ZHONG, Zhixin
DENG, Gengchun

(51) G06F 9/4401
G06F 13/10
G06F 9/455
(11) EP3084591
(21) EP14828255.1
(47) 26.01.2022
(87) FR2014053454
25.06.2015
(22) 19.12.2014
(54) EMULATION OF PHYSICAL EQUIPMENT
(73) ORANGE
(72) ROUL, Guillaume
LE GUILLOU, Xavier
BRICHETEAU, Dimitri
(31) 1363332
(32) 20.12.2013
(33) France

(51) G06F 9/451
(11) EP3627318
(21) EP19195158.1
(47) 26.01.2022
(22) 03.09.2019
(54) GAME RENDERING METHOD AND APPARATUS, TERMINAL, AND NON-TRANSITORY COMPUTER-READABLE STORAGE MEDIUM
(73) SHENZHEN HEYTAP TECHNOLOGY CORP., LTD.
(72) LI, Senlin
(31) 201811063404
(32) 12.09.2018

(33) China

(51) G06F 9/48
G06F 9/455
(11) EP3106983
(21) EP14885161.1
(47) 26.01.2022
(87) CN2014090323
17.09.2015
(22) 05.11.2014
(54) VIRTUAL MACHINE MIGRATION CONTROL METHOD AND APPARATUS
(73) Huawei Technologies Co., Ltd.
(72) ZOU, Tao
(31) 201410091247
(32) 12.03.2014
(33) China

(51) G06F 9/54
(11) EP3538996
(21) EP17794354.5
(47) 26.01.2022
(87) EP2017078924
17.05.2018
(22) 10.11.2017
(54) INTERCHANGING REAL-TIME DATA BETWEEN PROGRAM MODULES
(73) Phoenix Contact GmbH & Co. KG
(72) BECK, Alexander
DREWES, Tobias
KLEINOW, Rolf
FRIEBEN, Jens
HEUTGER, Henning
(31) 93300
(32) 10.11.2016
(33) Luxembourg

(51) G06F 11/07
G06F 11/14
(11) EP3757791
(21) EP20190028.9
(47) 26.01.2022
(22) 23.05.2018
(54) AUTOMATED RECOVERY OF UNSTABLE MOBILE DEVICES
(73) Google LLC
(72) GANOV, Svetoslav
SHARKEY, Jeffrey
(31) 201715839845
(32) 12.12.2017
(33) United States of America

(51) G06F 11/10
(11) EP2920695
(21) EP13795323.8
(47) 26.01.2022
(87) US2013067058
22.05.2014
(22) 28.10.2013
(54) METHOD AND SYSTEM FOR MULTI-DIMENSIONAL RAID RECONSTRUCTION AND DEFECT AVOIDANCE
(73) EMC IP Holding Company LLC
(72) BONWICK, Jeffrey, S.
(31) 201213677623
(32) 15.11.2012
(33) United States of America

(51) G06F 11/14
G06F 16/27
G06F 11/18
(11) EP3279794
(21) EP16771251.2
(47) 26.01.2022
(87) CN2016076414
06.10.2016
(22) 15.03.2016
(54) TIME-BASED NODE ELECTION METHOD AND APPARATUS
(73) Beijing OceanBase Technology Co., Ltd.
(72) YANG, Zhenkun
XIAO, Jinliang
(31) 201510155909
(32) 02.04.2015
(33) China

(51) G06F 11/263
G06F 11/36
(11) EP3729273
(21) EP18839831.7
(47) 26.01.2022
(87) FR2018053288
27.06.2019
(22) 13.12.2018
(54) SYSTEM AND METHOD FOR FORMULATING AND EXECUTING FONCTIONAL TESTS FOR CLUSTER DE SERVERS
(73) BULL SAS
(72) SAX, Antoine
(31) 1762741
(32) 21.12.2017
(33) France

(51) G06F 11/30
G06F 13/16
G06F 12/10
(11) EP2919120
(21) EP13866748.0
(47) 26.01.2022
(87) CN2013083702
03.07.2014
(22) 18.09.2013
(54) MEMORY MONITORING METHOD AND RELATED DEVICE
(73) Huawei Technologies Co., Ltd.
(72) CHEN, Mingyang
CUI, Zehan
CHEN, Licheng
CHEN, Mingyu
(31) 201210591865
(32) 31.12.2012
(33) China

(51) G06F 11/34
G06F 3/01
G06F 11/36
G06K 9/00
(11) EP3671464
(21) EP19212789.2
(47) 26.01.2022
(22) 02.12.2019
(54) DISTRACTION FACTOR USED IN A/B TESTING OF A WEB APPLICATION
(73) Citrix Systems, Inc.
(72) VAN ROTTERDAM, Jeroen Mattijs
(31) 201816221995
(32) 17.12.2018
(33) United States of America

(51) G06F 11/34
G06F 11/30
(11) EP3422188
(21) EP18175273.4
(47) 26.01.2022
(22) 30.05.2018
(54) TECHNOLOGIES FOR PRODUCING PROACTIVE NOTIFICATIONS OF STORAGE DEVICE PERFORMANCE
(73) INTEL Corporation
(72) DOSHI, Kshitij A.
BERNAT, Francesc Guim
SCHMISSEUR, Mark A.
(31) 201715639465
(32) 30.06.2017
(33) United States of America

(51) G06F 11/36
(11) EP3404551
(21) EP17210146.1
(47) 26.01.2022
(22) 22.12.2017
(54) METHOD AND DEVICE FOR PERFORMING TESTING ACROSS A PLURALITY OF SMART DEVICES
(73) Wipro Limited
(72) HAVINAL, Darshan
(31) 201741017543
(32) 18.05.2017
(33) India

(51) G06F 11/36
(11) EP3748507
(21) EP20168275.4
(47) 26.01.2022
(22) 06.04.2020
(54) AUTOMATED SOFTWARE TESTING
(73) Accenture Global Solutions Limited
(72) RANGANATHAN NOCHILUR, Sunder
(31) 201916429328
(32) 03.06.2019
(33) United States of America

(51) G06F 12/02
(11) EP3571583
(21) EP18754016.6
(47) 26.01.2022
(87) CN2018075613
23.08.2018
(22) 07.02.2018
(54) SYSTEM AND METHOD TO REDUCE OVERHEAD OF REFERENCE COUNTING
(73) Huawei Technologies Co., Ltd.
(72) WANG, Haichuan
YANG, Xuejun
MA, Lin
ZHENG, Ruohuang
(31) 201715434270
(32) 16.02.2017
(33) United States of America

(51) G06F 12/0811
G06F 12/0895
G06F 12/1045
G06F 15/167
G06F 12/126
G06F 12/128
(11) EP3486786
(21) EP18207242.1
(47) 26.01.2022
(22) 20.11.2018
(54) SYSTEM AND METHODS FOR EFFICIENT VIRTUALLY-TAGGED CACHE IMPLEMENTATION

(73) Samsung Electronics Co., Ltd.
(72) HAGERSTEN, Erik Ernst
(31) 201762588720 P
(32) 20.11.2017
(33) United States of America

(51) G06F 12/0866
G06F 12/0862
G06F 12/0888
(11) EP3502905
(21) EP18214882.5
(47) 26.01.2022
(22) 20.12.2018
(54) METHOD FOR PRE-LOADING DATA
(73) Bull SAS
(72) PICHON, Grégoire
GORET, Gaël
DERR, Simon
(31) 1762659
(32) 20.12.2017
(33) France

(51) G06F 12/14
G06F 21/71
G06F 21/79
G06F 21/85
H04L 9/32
(11) EP3403185
(21) EP16885374.5
(47) 26.01.2022
(87) US2016052839
20.07.2017
(22) 21.09.2016
(54) MEMORY OPERATION ENCRYPTION
(73) Advanced Micro Devices, Inc.
(72) JAYASENA, Nuwan
ZHANG, Dong Ping
(31) 201614993455
(32) 12.01.2016
(33) United States of America

(51) G06F 13/16
(11) EP3732578
(21) EP18792594.6
(47) 26.01.2022
(87) US2018051925
04.07.2019
(22) 20.09.2018
(54) SUPPORTING RESPONSES FOR MEMORY TYPES WITH NON-UNIFORM LATENCIES ON SAME CHANNEL
(73) Advanced Micro Devices, Inc.
(72) MAGRO, James Raymond
BALAKRISHNAN, Kedarnath
(31) 201715856430
(32) 28.12.2017
(33) United States of America

(51) G06F 13/42
(11) EP3847554
(21) EP19772922.1
(47) 26.01.2022
(87) US2019049697
12.03.2020
(22) 05.09.2019
(54) MIXED-MODE RADIO FREQUENCY FRONT-END INTERFACE
(73) QUALCOMM INCORPORATED
(72) WIETFELDT, Richard Dominic
MISHRA, Lalan Jee
(31) 201916546495
201862728348 P
(32) 21.08.2019
07.09.2018
(33) United States of America
United States of America

(51) G06F 13/42
G06F 13/00
G09G 5/04
G09G 5/00
(11) EP3437088
(21) EP16907515.7
(47) 26.01.2022
(87) US2016039875
04.01.2018
(22) 28.06.2016
(54) MONITOR WITH PROMPT TO SWITCH ACTIVE STATUS OF USB PORT
(73) Hewlett-Packard Development Company, L.P.
(72) CHEN, Wen Shih
GUYNES, Timothy P.
FREDERICK, John W.

(51) G06F 13/42
G06F 13/16
G06F 3/06
G06F 13/40
(11) EP3462325
(21) EP18171120.1
(47) 26.01.2022
(22) 07.05.2018
(54) COMBINING PRESENCE DETECT PIN WITH DEVICE MANAGEMENT BUS RESET AND POWER DISABLE
(73) INTEL Corporation
(72) CONSTANTINE, Anthony M.
MORNING-SMITH, Andrew W.
LOEWEN, Myron D.
(31) 201715719539
201762516606 P
(32) 28.09.2017
07.06.2017
(33) United States of America
United States of America

(51) G06F 16/00
H04L 29/08
G06F 16/901
(11) EP3640813
(21) EP18878726.1
(47) 26.01.2022
(87) CN2018107308
23.05.2019
(22) 25.09.2018
(54) CLUSTER-BASED RANDOM WALK METHOD AND APPARATUS
(73) Advanced New Technologies Co., Ltd.
(72) CAO, Shaosheng
ZHOU, Jun
YANG, Xinxing
(31) 201711144728
(32) 17.11.2017
(33) China

(51) G06F 16/176
G06F 16/23
H04L 29/08
(11) EP3552116
(21) EP17784105.3
(47) 26.01.2022
(87) US2017053450
14.06.2018
(22) 26.09.2017
(54) A HIGH-THROUGHPUT ALGORITHM FOR MULTIVERSION CONCURRENCY CONTROL WITH GLOBALLY SYNCHRONIZED TIME
(73) Google LLC
(72) HOCHSCHILD, Peter
HSIEH, Wilson, Cheng-yi
(31) 201615374722
(32) 09.12.2016
(33) United States of America

(51) G06F 16/21
G06F 16/25
(11) EP3660696
(21) EP20152913.8
(47) 26.01.2022
(22) 15.12.2017
(54) SYSTEMS AND METHODS FOR FACILITATING DATA TRANSFORMATION
(73) Palantir Technologies Inc.
(72) Ossher, Joel
Xiao, David
(31) 201615383787
(32) 19.12.2016
(33) United States of America

(51) G06F 16/22
G06F 16/23
G06F 16/27
G06F 16/28
G06F 16/2455
(11) EP3079079
(21) EP15162563.9
(47) 26.01.2022
(22) 07.04.2015
(54) METHOD, APPARATUS AND DATA STRUCTURE FOR COPYING VALUES OF A TABLE OF A DATABASE
(73) Huawei Technologies Co., Ltd.
(72) Levy, Eliezer
Dar, Usama
Goikman, Shay
Avitzur, Aharon
Wolski, Antoni
Chen, Zhibiao

(51) G06F 16/25
(11) EP3304353
(21) EP16731707.2
(47) 26.01.2022
(87) US2016035743
08.12.2016
(22) 03.06.2016
(54) SYSTEM AND METHOD FOR INTELLIGENTLY MAPPING A SOURCE ELEMENT TO A TARGET ELEMENT IN A CLOUD-BASED INTEGRATION SERVICE
(73) Oracle International Corporation
(72) HERRERIA, Jorge
HORA, Thomas
(31) 201615171894
201562171769 P
(32) 02.06.2016
05.06.2015
(33) United States of America
United States of America

(51) G06F 16/25
G06F 16/21

(11) EP2901325
(21) EP13777372.7
(47) 26.01.2022
(87) US2013062342
03.04.2014
(22) 27.09.2013
(54) CONTAINER DATABASE
(73) Oracle International Corporation
(72) RAVIPATI, Giridhar
IYER, Chandrasekharan
JAIN, Sanket
LI, Yunrui
LEE, Jaebock
RAJAMANI, Kumar
KRUGLIKOV, Andre
YAM, Phillip
(31) 201261707726 P
201213631815
(32) 28.09.2012
28.09.2012
(33) United States of America
United States of America

(51) G06F 16/583
H04W 4/35
H04W 4/02
(11) EP3711310
(21) EP18762829.2
(47) 26.01.2022
(87) EP2018073448
23.05.2019
(22) 31.08.2018
(54) METHOD AND DEVICE FOR DETERMINING OBJECTS IN AN IMAGE
(73) Inpixon
(72) BUCKO, Michal
VAHDAT-PAJOUH, Darius
(31) 102017127004
(32) 16.11.2017
(33) Germany

(51) G06F 17/00
G06F 3/12
B41J 2/175
G06F 21/73
G06F 21/44
G03G 15/00
(11) EP3028173
(21) EP13890474.3
(47) 26.01.2022
(87) US2013052908
05.02.2015
(22) 31.07.2013
(54) METHODS AND SYSTEMS FOR DETERMINING AUTHENTICITY OF A CONSUMABLE PRODUCT
(73) Hewlett-Packard Development Company, L.P.
(72) WARD, Jefferson P.
JERAN, Paul L.
PANSHIN, Stephen D.
SIMPSON, Shell S.

(51) G06F 17/00
G06F 21/00
H04L 9/00
H04L 29/06
(11) EP3289476
(21) EP16787310.8
(47) 26.01.2022
(87) US2016030463
03.11.2016
(22) 02.05.2016
(54) COMPUTER NETWORK SECURITY SYSTEM
(73) Fortinet, Inc.
(72) CROSS, Thomas James
DAVIS, Scott Michael
ZHANG, Qiu
TERRILL, John Ondy
(31) 201562155145 P
(32) 30.04.2015
(33) United States of America

(51) G06F 21/16
(11) EP3881202
(21) EP20709916.9
(47) 26.01.2022
(87) US2020017027
12.08.2021
(22) 06.02.2020
(54) VERIFYING DISPLAY OF THIRD PARTY CONTENT AT A CLIENT DEVICE
(73) Google LLC
(72) JACOBSON, Alex Daniel
WANG, Gang

(51) G06F 21/31
H04L 29/06
H04W 12/06
(11) EP3575993
(21) EP18175372.4
(47) 26.01.2022
(22) 31.05.2018
(54) METHOD AND SYSTEM FOR VALIDATING REMOTE LIVE IDENTIFICATION VIA VIDEO-RECORDING
(73) Nect GmbH
(72) KOHN, Fabian
JÜRGENS, Benny Bennet

(51) G06F 21/32
G06F 21/62
G06F 21/64
(11) EP3355224
(21) EP18162665.6
(47) 26.01.2022
(22) 15.06.2015
(54) METHODS FOR DIGITALLY SIGNING AN ELECTRONIC FILE, AND AUTHENTICATING METHOD
(73) Csík, Balázs
Rogán, Antal
(72) Csik, Balázs
Rogán, Antal
Lengyel, Csaba
(31) P1500259
P1400392
(32) 29.05.2015
18.08.2014
(33) Hungary
Hungary

(51) G06F 21/33
G06F 21/44
H04L 9/32
(11) EP3762845
(21) EP19714104.7
(47) 26.01.2022
(87) EP2019055763
12.09.2019
(22) 07.03.2019
(54) PROJECT-RELATED CERTIFICATE MANAGEMENT
(73) Siemens Aktiengesellschaft
(72) PALMIN, Anna
LUTZ, Benjamin
(31) 18160968
(32) 09.03.2018
(33) European Patent Office (EPO)

(51) G06F 21/56
G06F 21/57
(11) EP3428828
(21) EP18183195.9
(47) 26.01.2022
(22) 12.07.2018
(54) SYSTEM AND METHOD FOR LOCATING AND CORRECTING VULNERABILITES IN A TARGET COMPUTER SYSTEM
(73) Accenture Global Solutions Limited
(72) KUMAR, Harshal
MUTHUKUMARAN, Balaji
HOTTE, Jyoti
SWAMY, Jayant
KUM, Anil
SAWANT, Nitin Madhukar
KANYAL, Rakesh Singh
RAMASAMY, Manoharan
(31) 201741025111
(32) 14.07.2017
(33) India

(51) G06F 21/57
H04L 29/06
(11) EP3757840
(21) EP20175877.8
(47) 26.01.2022
(22) 21.05.2020
(54) BINARY STATIC ANALYSIS OF APPLICATION STRUCTURE TO IDENTIFY VULNERABILITIES
(73) BlackBerry Limited
(72) Boulton, Adam John
(31) 201916454256
(32) 27.06.2019
(33) United States of America

(51) G06F 21/62
G06F 21/60
H04L 29/08
H04L 29/06
G06Q 30/02
H04W 12/02
(11) EP3646231
(21) EP19723957.7
(47) 26.01.2022
(87) US2019029968
14.11.2019
(22) 30.04.2019
(54) DATA COLLECTION CONSENT TOOLS
(73) Google LLC
(72) CHIRRAVURI, Varun Raj
LIM, Lorna T.
SINGHAL, Nikhil
GAZZOLA, Michael
JOHNSEN, Vegard
YEHOSHUA, Ron Offer
GREGOIRE, Andrés
(31) 201862667995 P
(32) 07.05.2018
(33) United States of America

(51) G06F 21/62
G06F 21/72
G06F 21/79
(11) EP3279824
(21) EP17166372.7
(47) 26.01.2022
(22) 12.04.2017
(54) DATA-AT-REST (DAR) ENCRYPTION FOR INTEGRATED STORAGE MEDIA
(73) The Boeing Company
(72) BENTLEY, Sean Franklin
(31) 201615230185
(32) 05.08.2016
(33) United States of America

(51) G06K 7/14
G06K 7/10
(11) EP3633537
(21) EP19207819.4
(47) 26.01.2022
(22) 25.09.2012
(54) DEVICES AND METHODS EMPLOYING DUAL TARGET AUTO EXPOSURE
(73) Hand Held Products, Inc.
(72) DELOGE, Stephen Patrick
MEIER, Timothy
(31) 201113250282
(32) 30.09.2011
(33) United States of America

(51) G06K 9/00
(11) EP3203725
(21) EP15847652.3
(47) 26.01.2022
(87) JP2015073174
07.04.2016
(22) 19.08.2015
(54) VEHICLE-MOUNTED IMAGE RECOGNITION DEVICE
(73) Hitachi Astemo, Ltd.
(72) DOI Koji
NAGASAKI Takeshi
MATONO Haruki
SHIINA Yuhi
MUTOU Yoshiyuki
(31) 2014201369
(32) 30.09.2014
(33) Japan

(51) G06K 9/00
(11) EP3410346
(21) EP18173522.6
(47) 26.01.2022
(22) 22.05.2018
(54) OLED PANEL
(73) Beijing Xiaomi Mobile Software Co., Ltd.
(72) HE, Quanhua
(31) 201710398562
(32) 31.05.2017
(33) China

(51) G06K 9/00
G06K 9/20
B60S 1/08
(11) EP3002711
(21) EP15188090.3
(47) 26.01.2022
(22) 02.10.2015
(54) IMAGE CAPTURING APPARATUS, IMAGE CAPTURING METHOD, CARRIER MEDIUM, AND DEVICE CONTROL SYSTEM FOR CONTROLLING VEHICLE-MOUNTED DEVICES
(73) Ricoh Company, Ltd.
(72) KIDA, Shintaroh
ITOH, Izumi
OSHIKIRI, Kohji
SEKIGUCHI, Hiroyoshi
(31) 2015134538
2014204501
(32) 03.07.2015
03.10.2014
(33) Japan
Japan

(51) G06K 9/32
(11) EP3001352
(21) EP14801272.7
(47) 26.01.2022
(87) JP2014054968
27.11.2014
(22) 27.02.2014
(54) IMAGE PROCESSING APPARATUS AND IMAGE PROCESSING METHOD
(73) Omron Corporation
(72) MINATO Yoshihisa
TONOGAI Norikazu
WADA Hirotaka
HYUGA Tadashi
OE Masamichi
AIZAWA Tomoyoshi
KOBAYASHI Koji
(31) 2013106439
(32) 20.05.2013
(33) Japan

(51) G06K 19/07
G01N 27/02
G06K 19/077
(11) EP2939185
(21) EP13867012.0
(47) 26.01.2022
(87) SE2013051590
03.07.2014
(22) 20.12.2013
(54) METHODS FOR ANALYSIS OF FLUIDS USING RESONANT SENSORS
(73) General Electric Company
(72) LEE, Yongjae
DIERINGER, Jon, Albert
COTERO, Victoria, Eugenia
POTYRAILO, Radislav, A.
(31) 201213729851
(32) 28.12.2012
(33) United States of America

(51) G06K 19/077
(11) EP2174270
(21) EP08806167.6
(47) 26.01.2022
(87) FR2008051249
15.01.2009
(22) 04.07.2008
(54) FIBROUS SUBSTRATE FOR INSERT INCLUDING AN ANTENNA
(73) HID Global CID SAS
(72) DESNOUS, Céline
RANCIEN, Sandrine
(31) 0756278
(32) 04.07.2007
(33) France

(51) G06N 3/04
G06N 3/063
(11) EP3533003
(21) EP17761665.3
(47) 26.01.2022
(87) US2017047992
03.05.2018
(22) 22.08.2017
(54) EXPLOITING INPUT DATA SPARSITY IN NEURAL NETWORK COMPUTE UNITS
(73) Google LLC
(72) WOO, Dong Hyuk
NARAYANASWAMI, Ravi
(31) 201715465774
201615336066
(32) 22.03.2017
27.10.2016
(33) United States of America
United States of America

(51) G06N 3/04
G10L 13/10
B25J 9/16
G10L 13/02
G10H 7/00
G06N 3/08
G10L 13/033
(11) EP3438972
(21) EP16897086.1
(47) 26.01.2022
(87) JP2016087316
05.10.2017
(22) 14.12.2016
(54) INFORMATION PROCESSING SYSTEM AND METHOD FOR GENERATING SPEECH
(73) Sony Group Corporation
(72) NARIHIRA, Takuya
NAKAMURA, Akira
IDE, Naoki
NAKAHASHI, Ryo
FUJITA, Takuya
(31) 2016063784
(32) 28.03.2016
(33) Japan

(51) G06N 3/08
G06N 3/04
G10L 13/00
(11) EP3593290
(21) EP18726146.6
(47) 26.01.2022
(87) EP2018063290
29.11.2018
(22) 22.05.2018
(54) FEEDFORWARD GENERATIVE NEURAL NETWORKS
(73) Deepmind Technologies Limited
(72) VINYALS, Oriol
VAN DEN OORD, Aaron Gerard Antonius
SIMONYAN, Karen
(31) 201762509053 P
(32) 20.05.2017
(33) United States of America

(51) G06Q 10/08
B65G 1/04
G06K 9/00
G05D 1/02
(11) EP3309728
(21) EP17196764.9

(47) 26.01.2022
(22) 17.10.2017
(54) STORE SHELF IMAGING SYSTEM AND METHOD
(73) Conduent Business Services LLC
(72) WADE, Thomas F.
Rizzolo, Charles D.
SHEN, Ethan
WU, Wencheng
VENABLE, Dennis L.
(31) 201615294937
(32) 17.10.2016
(33) United States of America

(51) G06Q 10/08
H04W 4/80
H04W 4/02
H04W 4/20
(11) EP3526747
(21) EP17862872.3
(47) 26.01.2022
(87) IB2017055468
26.04.2018
(22) 11.09.2017
(54) DETERMINING SERVICE PROVIDER BEHAVIOR WITH RANGED TRANSMISSIONS
(73) Uber Technologies, Inc.
(72) SWANSON, Katherine
CHANG, Erick
STEWART, Zachary Tyler
(31) 201715451221
201662408931 P
(32) 06.03.2017
17.10.2016
(33) United States of America
United States of America

(51) G06Q 20/30
G06Q 30/06
G06K 19/06
(11) EP3284049
(21) EP16780732.0
(47) 26.01.2022
(87) US2016027494
20.10.2016
(22) 14.04.2016
(54) A SYSTEM, METHOD, AND APPARATUS FOR UPDATING AN EXISTING DYNAMIC TRANSACTION CARD
(73) Capital One Services, LLC
(72) KOEPPEL, Adam, R.
ZARAKAS, James
WURMFELD, David
KELLY, Kevin, P.
(31) 201562270345 P
201562270429 P
201562147568 P
(32) 21.12.2015
21.12.2015
14.04.2015
(33) United States of America
United States of America
United States of America

(51) G06Q 20/34
G06Q 20/32
G06Q 20/40
(11) EP3118798
(21) EP16179253.6
(47) 26.01.2022
(22) 13.07.2016
(54) ELECTRONIC DEVICE AND PAYMENT METHOD USING THE SAME
(73) Samsung Electronics Co., Ltd.
(72) HONG, Hyunju
LEE, Woosup
KEUM, Kyeongjo
KIM, Younju
PARK, Jungsik
HUANG, Eric
WALLNER, George
(31) 20150162158
20150100122
(32) 18.11.2015
14.07.2015
(33) Korea (Republic)
Korea (Republic)

(51) G06T 3/40
H04N 7/18
H04N 19/172
H04N 19/117
H04N 19/136
H04N 19/167
H04N 19/85
(11) EP3384673
(21) EP16869445.3
(47) 26.01.2022
(87) CA2016051413
08.06.2017
(22) 01.12.2016
(54) NOISE-CANCELLING FILTER FOR VIDEO IMAGES
(73) Searidge Technologies Inc.
(72) SAURIOL, Alex
THUROW, Christian Tim
CHEIKH, Moodie
(31) 201562263122 P
(32) 04.12.2015
(33) United States of America

(51) G06T 7/00
(11) EP3563341
(21) EP17822769.0
(47) 26.01.2022
(87) GB2017053885
05.07.2018
(22) 22.12.2017
(54) METHOD FOR CEPHALOMETRIC ANALYSIS
(73) Carestream Dental Technology Topco Limited
(72) CHEN, Shoupu
INGLESE, Jean-Marc
FAURE, Jacques
TREIL, Jacques
(31) 201615395190
(32) 30.12.2016
(33) United States of America

(51) G06T 7/00
G06T 7/62
A61B 8/08
A61B 8/00
G16H 50/30
(11) EP3724849
(21) EP18819098.7
(47) 26.01.2022
(87) EP2018084640
20.06.2019
(22) 12.12.2018
(54) IMAGE ANALYSIS FOR SCORING MOTION OF A HEART WALL
(73) Oxford University Innovation Limited
(72) MARKHAM, Deborah
LEESON, Paul
WILKES, Edmund
UPTON, Ross
(31) 201720789
(32) 13.12.2017
(33) United Kingdom

(51) G06T 7/20
(11) EP2387002
(21) EP11165310.1
(47) 26.01.2022
(22) 09.05.2011
(54) IMAGE PROCESSING APPARATUS, METHOD, AND STORAGE MEDIUM
(73) CANON KABUSHIKI KAISHA
(72) KAMEI, Yoichi
(31) 2010108783
(32) 10.05.2010
(33) Japan

(51) G06T 7/579
(11) EP3475917
(21) EP17733432.3
(47) 26.01.2022
(87) EP2017065677
28.12.2017
(22) 26.06.2017
(54) RGB-D CAMERA BASED SLAM SYSTEM AND METHOD THEREOF
(73) Robert Bosch GmbH
(72) REN, Liu
KIM, Soohwan
YAN, Zhixin
BABU, Benzun Pious Wisely
(31) 201662354251 P
(32) 24.06.2016
(33) United States of America

(51) G06T 7/579
G06T 7/593
(11) EP3471057
(21) EP18190427.7
(47) 26.01.2022
(22) 23.08.2018
(54) IMAGE PROCESSING METHOD AND APPARATUS USING DEPTH VALUE ESTIMATION
(73) Samsung Electronics Co., Ltd.
(72) AHN, Minsu
PARK, Seungin
(31) 20170133815
(32) 16.10.2017
(33) Korea (Republic)

(51) G06T 15/04
G06T 15/10
G06T 15/20
(11) EP3776485
(21) EP19784182.8
(47) 26.01.2022
(87) US2019052926
02.04.2020
(22) 25.09.2019
(54) ANY WORLD VIEW GENERATION
(73) Coherent Logix, Inc.
(72) HUNT, Martin A.
SIDDAIAH, Manjunath H.

BRUNS, Michael W.
(31) 201862737050 P
(32) 26.09.2018
(33) United States of America

(51) G07B 17/00
G06T 19/00
(11) EP3316224
(21) EP17196742.5
(47) 26.01.2022
(22) 17.10.2017
(54) METHOD FOR DETERMINING A FEE FOR SENDING A SHIPMENT
(73) Deutsche Post AG
(72) Rakow, Matthias
(31) 102016120406
(32) 26.10.2016
(33) Germany

(51) G07C 3/00
G07C 7/00
H01M 50/216
(11) EP3534339
(21) EP18159673.5
(47) 26.01.2022
(22) 02.03.2018
(54) DEVICE FOR DETECTING OPERATING DATA OF A MOTORISED TOOL AND SYSTEM
(73) Andreas Stihl AG & Co. KG
(72) Menzel, Johannes
Fries, Uwe
Vaas, André
Gurr, Kay-Steffen
Gindele, Cornelius
Hilt, Thomas

(51) G07C 9/00
G06F 21/00
H04L 29/06
G06F 21/60
G07C 9/27
(11) EP3590101
(21) EP18710979.8
(47) 26.01.2022
(87) US2018020216
07.09.2018
(22) 28.02.2018
(54) A FRAMEWORK FOR ACCESS PROVISIONING IN PHYSICAL ACCESS CONTROL SYSTEMS
(73) Carrier Corporation
(72) FLORENTINO, Blanca
NOVOZHENETS, Yuri
BOUBEKEUR, Menouer
GAUTHIER, Ed
TIWARI, Ankit
HADZIC, Tarik
MARCHIOLI, John
(31) 201762465578 P
(32) 01.03.2017
(33) United States of America

(51) G07C 9/00
H04L 29/06
H04L 29/08
H04W 12/06
H04W 4/021
H04W 4/80
(11) EP3819878
(21) EP20203170.4
(47) 26.01.2022
(22) 21.10.2020
(54) MOBILE DIGITAL LOCKING TECHNOLOGY
(73) iLOQ Oy
(72) Pukari, Mika
(31) 202016821880
201962931580 P
PCT/FI2020/050617
(32) 17.03.2020
06.11.2019
23.09.2020
(33) United States of America
United States of America
World Intellectual Property Office (WIPO)

(51) G07D 1/00
G07F 19/00
G07D 9/00
G07D 11/00
(11) EP3217366
(21) EP17159115.9
(47) 26.01.2022
(22) 03.03.2017
(54) MONEY DISPENSING DEVICE AND ACCOUNTING DEVICE
(73) Toshiba TEC Kabushiki Kaisha
(72) SHIMURA, Takahiro
(31) 2016043861
(32) 07.03.2016
(33) Japan

(51) G07F 7/06
B65G 21/06
(11) EP3159856
(21) EP15190839.9
(47) 26.01.2022
(22) 21.10.2015
(54) INPUT UNIT FOR AN EMPTIES RETURN MACHINES AND EMPTIES RETURN MACHINE
(73) Wincor Nixdorf International GmbH
(72) FISCHER, Axel
HARTUNG, Domenic
RHEIN, Patrick

(51) G08B 21/10
G01V 1/00
(11) EP3350788
(21) EP16767256.7
(47) 26.01.2022
(87) EP2016072045
23.03.2017
(22) 16.09.2016
(54) METHOD AND DEVICE FOR IMPROVING MARITIME PLATFORM SAFETY
(73) NAVAL GROUP
(72) DROUET, Céline
CELLIER, Nicolas
DAL SANTO, Xavier
(31) 1501928
(32) 17.09.2015
(33) France

(51) G08B 21/24
G08B 29/18
(11) EP3621050
(21) EP19195758.8
(47) 26.01.2022
(22) 05.09.2019
(54) METHOD AND SYSTEM FOR IMPROVING INFECTION CONTROL IN A FACILITY
(73) Honeywell International Inc.
(72) MAHASENAN, Arun Vijayakumari
KOLAVENNU, Soumitri
PADMANABHAN, Aravind
NIE, Rongbao
PAI, Ramdas
(31) 201862727480 P
(32) 05.09.2018
(33) United States of America

(51) G08C 17/02
H04L 12/28
(11) EP3729395
(21) EP18825762.0
(47) 26.01.2022
(87) FR2018053126
27.06.2019
(22) 06.12.2018
(54) UNIVERSAL PROGRAMMING STATION WITH ORIENTABLE BLOCKS
(73) ORANGE
(72) GAILLET, Thierry
LEROUX, Sylvain
(31) 1762340
(32) 18.12.2017
(33) France

(51) G08G 1/01
G08G 1/0967
G01C 21/34
(11) EP3654310
(21) EP18207104.3
(47) 26.01.2022
(22) 19.11.2018
(54) DEPARTURE TIME DURATION FOR A VEHICLE
(73) Ningbo Geely Automobile Research & Development Co. Ltd.
(72) LINDBERG NILSSON, Erik
NILSSON, Magnus

(51) G08G 1/07
B61L 5/18
G08G 1/095
(11) EP3757963
(21) EP19183328.4
(47) 26.01.2022
(22) 28.06.2019
(54) SIGNAL AND / OR DETECTION DEVICE IN TRAFFIC ENVIRONMENTS WITH AUTOMATIC CONTAMINATION DETECTION
(73) Siemens Mobility AG
(72) HOFFMANN, Alexandra
MOSER, Mario
SCHUMACHER, Reto

(51) G08G 1/07
G08G 1/095
G08G 1/097
(11) EP3084745
(21) EP15710751.7
(47) 26.01.2022
(87) EP2015055145
24.09.2015
(22) 12.03.2015
(54) CONTROL SYSTEM AND METHOD FOR CONTROLLING A TRAFFIC CONTROL SIGNAL

(73) Siemens Mobility GmbH
(72) LOERSCH, Ralf
REINTS, Wilke
DE ZAEYER, Geert
BRAATZ, Robert
KNAUER, Wolfgang
(31) 102014205324
(32) 21.03.2014
(33) Germany

(51) G08G 1/09
B60T 7/12
G08G 1/0967
(11) EP3660809
(21) EP18837426.8
(47) 26.01.2022
(87) JP2018028123
31.01.2019
(22) 26.07.2018
(54) AUTOMOTIVE CONTROL DEVICE, METHOD FOR CONTROLLING TRAVEL SPEED, AND COMPUTER PROGRAM
(73) Sumitomo Electric Industries, Ltd.
(72) KOBAYASHI, Masafumi
ISHIMARU, Hiroyuki
(31) 2017146746
(32) 28.07.2017
(33) Japan

(51) G08G 1/16
E02F 9/24
E02F 9/26
B60W 50/14
(11) EP3522133
(21) EP17844594.6
(47) 26.01.2022
(87) JP2017043845
13.06.2019
(22) 06.12.2017
(54) WORK VEHICLE VICINITY MONITORING SYSTEM AND WORK VEHICLE VICINITY MONITORING METHOD
(73) Komatsu Ltd.
(72) KURIHARA, Takeshi
OZAKI, Masataka
IMAIZUMI, Masaaki

(51) G08G 3/00
G08G 3/02
(11) EP3387633
(21) EP16816605.6
(47) 26.01.2022
(87) EP2016080117
15.06.2017
(22) 07.12.2016
(54) METHOD AND SYSTEM FOR PREDICTING TRAFFIC IN SEA AREAS OF LIMITED CROSS-SECTION
(73) Universität Rostock
Hochschule Wismar
(72) HILGENFELD, Carsten
VOJDANI, Nina
AHN, Manfred
(31) 102015224830
(32) 10.12.2015
(33) Germany

(51) G09C 1/00
H04L 9/00
(11) EP3264396
(21) EP16176718.1
(47) 26.01.2022
(22) 28.06.2016
(54) A METHOD FOR PROTECTING A SUBSTITUTION OPERATION USING A SUBSTITUTION TABLE AGAINST A SIDE-CHANNEL ANALYSIS
(73) ESHARD
(72) CLAVIER, Christophe
WURCKER, Antoine

(51) G09F 1/08
G09F 15/00
G09F 7/18
(11) EP3168826
(21) EP16198484.4
(47) 26.01.2022
(22) 11.11.2016
(54) SELF-STANDING SIGNS
(73) Signwaves Limited
(72) JOHN, David Nicholas
(31) 201520080
(32) 13.11.2015
(33) United Kingdom

(51) G09G 3/3233
(11) EP3340223
(21) EP17204635.1
(47) 26.01.2022
(22) 30.11.2017
(54) ELECTROLUMINESCENT DISPLAY AND METHOD OF DRIVING THE SAME
(73) LG Display Co., Ltd.
(72) KIM, Bumsik
LEE, Kihyung
HAN, Sungman
PARK, Eunji
(31) 20160176663
(32) 22.12.2016
(33) Korea (Republic)

(51) G09G 3/36
G09G 3/34
(11) EP3657490
(21) EP17918371.0
(47) 26.01.2022
(87) CN2017101178
24.01.2019
(22) 11.09.2017
(54) DISCHARGE SIGNAL TRIGGERING CIRCUIT AND DISPLAY DEVICE
(73) Shenzhen China Star Optoelectronics Semiconductor Display Technology Co., Ltd.
(72) ZHANG, Xianming
(31) 201710582604
(32) 17.07.2017
(33) China

(51) G09G 5/00
(11) EP2788973
(21) EP12808593.3
(47) 26.01.2022
(87) US2012068129
13.06.2013
(22) 06.12.2012
(54) MAPPING FOR DISPLAY EMULATION BASED ON IMAGE CHARACTERISTICS
(73) Dolby Laboratories Licensing Corporation
(72) JOHNSON, Lewis
BALLESTAD, Anders
ATKINS, Robin
(31) 201161568636 P
(32) 08.12.2011
(33) United States of America

(51) G09G 5/393
G06F 12/0875
G09G 5/395
G06F 12/06
(11) EP2936492
(21) EP13803357.6
(47) 26.01.2022
(87) US2013071283
26.06.2014
(22) 21.11.2013
(54) MULTI-MODE MEMORY ACCESS TECHNIQUES FOR PERFORMING GRAPHICS PROCESSING UNIT-BASED MEMORY TRANSFER OPERATIONS
(73) Qualcomm Incorporated
(72) WANG, Tao
GRUBER, Andrew Evan
KHANDELWAL, Shambhoo
(31) 201213725393
(32) 21.12.2012
(33) United States of America

(51) G10L 17/22
G10L 17/04
G06F 21/32
H04L 29/06
G10L 25/60
G10L 17/12
G10L 17/08
(11) EP3740949
(21) EP18755848.1
(47) 26.01.2022
(87) EP2018072918
09.01.2020
(22) 24.08.2018
(54) AUTHENTICATING A USER
(73) Veridas Digital Authentication Solutions, S.L.
(72) IRIARTE RUIZ, Ana
PRIETO CALERO, Santiago
LÓPEZ ESPEJO, Iván
AZANZA LADRÓN, Eduardo
RONCAL REDÍN, David
SÁNCHEZ YOLDI, Miguel Ángel
(31) 18382505
(32) 06.07.2018
(33) European Patent Office (EPO)

(51) G10L 19/00
G10L 15/26
(11) EP3613041
(21) EP17720711.5
(47) 26.01.2022
(87) EP2017059388
25.10.2018
(22) 20.04.2017
(54) HANDLING OF POOR AUDIO QUALITY IN A TERMINAL DEVICE
(73) Telefonaktiebolaget LM Ericsson (PUBL)
(72) VANDIKAS, Konstantinos
GRANCHAROV, Volodya
FERSMAN, Elena
KARAPANTELAKIS, Athanasios
TESLENKO, Maxim

(51) G10L 19/005
G10L 19/02
G10L 19/24

G10L 25/93
(11) EP3534366
(21) EP18203005.6
(47) 26.01.2022
(22) 28.01.2015
(54) METHOD AND APPARATUS FOR PROCESSING LOST FRAME
(73) Huawei Technologies Co., Ltd.
(72) MIAO, Lei
LIU, Zexin
WANG, Bin
(31) 201410291123
(32) 25.06.2014
(33) China

(51) G10L 19/008
H04S 3/00
G10L 19/16
H04R 3/00
H04R 5/027
(11) EP3625795
(21) EP18720835.0
(47) 26.01.2022
(87) US2018026063
22.11.2018
(22) 04.04.2018
(54) LAYERED INTERMEDIATE COMPRESSION FOR HIGHER ORDER AMBISONIC AUDIO DATA
(73) Qualcomm Incorporated
(72) PETERS, Nils Günther
KIM, Moo Young
SEN, Dipanjan
(31) 201715804718
201762508097 P
(32) 06.11.2017
18.05.2017
(33) United States of America
United States of America

(51) G10L 19/02
(11) EP2693431
(21) EP13174618.2
(47) 26.01.2022
(22) 02.07.2013
(54) Data compression apparatus, data compression program, data compression method and data compression/decompression system
(73) NINTENDO CO., LTD.
(72) Abe, Tomokazu
(31) 2012261932
2012253145
2012253144
2012170963
(32) 30.11.2012
19.11.2012
19.11.2012
01.08.2012
(33) Japan
Japan
Japan
Japan

(51) G10L 19/02
G10L 19/008
(11) EP3335216
(21) EP16784452.1
(47) 26.01.2022
(87) EP2016074742
20.04.2017
(22) 14.10.2016
(54) METHOD AND APPARATUS FOR SINUSOIDAL ENCODING AND DECODING
(73) Huawei Technologies Co., Ltd.
Zylia SP. Z O.O.
(72) SETIAWAN, Panji
ZERNICKI, Tomasz
JANUSZKIEWICZ, Lukasz
(31) PCT/EP2015/189865
(32) 15.10.2015
(33) World Intellectual Property Office (WIPO)

(51) G10L 19/07
G10L 19/00
G10L 19/005
(11) EP3859734
(21) EP21158838.9
(47) 26.01.2022
(22) 16.03.2015
(54) SOUND SIGNAL DECODING DEVICE, SOUND SIGNAL DECODING METHOD, PROGRAM AND RECORDING MEDIUM
(73) NIPPON TELEGRAPH AND TELEPHONE CORPORATION
(72) HARADA, Noboru
KAMAMOTO, Yutaka
MORIYA, Takehiro
(31) 2014094758
(32) 01.05.2014
(33) Japan

(51) G10L 19/24
G10L 25/78
(11) EP3751567
(21) EP19179214.2
(47) 26.01.2022
(22) 10.06.2019
(54) A METHOD, A COMPUTER PROGRAM, AN ENCODER AND A MONITORING DEVICE
(73) Axis AB
(72) Jelacic, Mersad
Wanderlöf, Ricard
Gerard, Markus
Danielsson Fan, Xing
Tedenvall, Marcus

(51) G10L 19/26
(11) EP2951823
(21) EP13824256.5
(47) 26.01.2022
(87) US2013077421
07.08.2014
(22) 23.12.2013
(54) CODE-EXCITED LINEAR PREDICTION METHOD AND APPARATUS
(73) Qualcomm Incorporated
(72) ATTI, Venkatraman S.
RAJENDRAN, Vivek
KRISHNAN, Venkatesh
(31) 201314026765
201361758152 P
(32) 13.09.2013
29.01.2013
(33) United States of America
United States of America

(51) G10L 21/0216
H04R 25/00
G10L 21/0364
(11) EP3672283
(21) EP18215540.8
(47) 26.01.2022
(22) 21.12.2018
(54) METHOD FOR IMPROVING THE SPATIAL HEARING PERCEPTION OF A BINAURAL HEARING AID
(73) Sivantos Pte. Ltd.
(72) BOUCHARD, Martin
AS'AD, Hala
KAMKAR-PARSI, Homayoun

(51) G11C 11/16
G06F 11/10
G06F 11/07
G11C 29/02
G11C 29/04
G11C 29/42
(11) EP2972873
(21) EP14775795.9
(47) 26.01.2022
(87) US2014019148
02.10.2014
(22) 27.02.2014
(54) SELECTIVE SELF-REFERENCE READ
(73) Micron Technology, Inc.
(72) SANDHU, Gurtej S.
KINNEY, Wayne
(31) 201313804598
(32) 14.03.2013
(33) United States of America

(51) G11C 11/419
G11C 11/413
(11) EP3624122
(21) EP19195418.9
(47) 26.01.2022
(22) 04.09.2019
(54) TRANSISTOR BODY BIAS CONTROL CIRCUIT FOR SRAM CELLS
(73) NXP B.V.
(72) Mishra, Jwalant Kumar
Singh, Jainendra
van de Steeg, Patrick
Saini, Deepti
Jain, Sushikha
(31) 201816129718
(32) 12.09.2018
(33) United States of America

(51) G11C 16/14
G11C 16/04
G11C 7/18
G11C 8/14
H01L 27/04
H01L 27/115
H01L 27/1159
G11C 16/10
(11) EP3459114
(21) EP17799908.3
(47) 26.01.2022
(87) US2017032280
23.11.2017
(22) 11.05.2017
(54) ARRAY OF THREE-GATE FLASH MEMORY CELLS WITH INDIVIDUAL MEMORY CELL READ, PROGRAM AND ERASE
(73) SILICON STORAGE TECHNOLOGY, INC.
(72) TIWARI, Vipin
TRAN, Hieu Van

DO, Nhan
(31) 201662337582 P
(32) 17.05.2016
(33) United States of America

(51) G11C 16/28
G11C 16/24
G11C 7/06
G11C 7/14
G11C 16/32
G11C 16/04
G11C 29/02
G11C 29/50
G11C 29/12
(11) EP3384497
(21) EP16882287.2
(47) 26.01.2022
(87) US2016065936
06.07.2017
(22) 09.12.2016
(54) LOW POWER SENSE AMPLIFIER FOR A FLASH MEMORY SYSTEM
(73) SILICON STORAGE TECHNOLOGY, INC.
(72) RAO, Qing
BIAN, Lisa
PI, Xiao Yan
YUE, Kai Man
QIAN, Xiaozhou
(31) 201511030454
201615371496
(32) 31.12.2015
07.12.2016
(33) China
United States of America

(51) G16H 10/40
G16H 40/67
(11) EP3230910
(21) EP15868505.7
(47) 26.01.2022
(87) IB2015059553
16.06.2016
(22) 11.12.2015
(54) METHOD FOR MANAGING THE PROTOCOLS USED BY DEVICES FOR DIAGNOSTIC AND CLINICAL ANALYSIS AND RESULTS OBTAINED FROM SUCH DEVICES
(73) Hyris Limited
(72) LO PRIORE, Stefano
(31) RM20140715
(32) 11.12.2014
(33) Italy

(51) G16H 40/40
A61G 7/018
(11) EP3002695
(21) EP15186228.1
(47) 26.01.2022
(22) 22.09.2015
(54) HOSPITAL BED COMPATIBILITY WITH THIRD PARTY APPLICATION SOFTWARE
(73) Hill-Rom Services, Inc.
(72) HUSTER, Keith A.
(31) 201414501380
(32) 30.09.2014
(33) United States of America

(51) G16H 50/20
A61B 8/08
G06T 7/00
(11) EP3724892
(21) EP18829765.9
(47) 26.01.2022
(87) EP2018084642
20.06.2019
(22) 12.12.2018
(54) DIAGNOSTIC MODELLING METHOD AND APPARATUS
(73) Oxford University Innovation Limited
(72) UPTON, Ross
LEESON, Paul
(31) 201720791
(32) 13.12.2017
(33) United Kingdom

(51) G21C 7/10
H01F 27/02
G21C 9/02
H01F 27/32
H01F 41/00
H01F 41/06
(11) EP3739603
(21) EP18900943.4
(47) 26.01.2022
(87) CN2018113019
25.07.2019
(22) 31.10.2018
(54) ELECTROMAGNETIC COIL ASSEMBLY FOR CONTROL ROD DRIVE MECHANISM, AND FABRICATION METHOD FOR SAME
(73) Yu, Jie
(72) Yu, Jie
(31) 201810041590
(32) 16.01.2018
(33) China

(51) G21K 1/093
G21K 5/04
A61N 5/10
(11) EP3573075
(21) EP18173426.0
(47) 26.01.2022
(22) 21.05.2018
(54) A GANTRY AND APPARATUS FOR FOCUSSING BEAMS OF CHARGED PARTICLES
(73) CERN - European Organization For Nuclear Research
(72) BOTTURA, Luca

(51) H01B 17/00
G01R 31/12
H01B 17/28
G02B 6/44
H02G 15/072
G01R 29/08
(11) EP3561819
(21) EP18169562.8
(47) 26.01.2022
(22) 26.04.2018
(54) BUSHING EQUIPPED WITH AN OPTICAL FIBRE
(73) Hitachi Energy Switzerland AG
(72) SJÖBERG, Peter
HEDLUND, Roger

(51) H01B 19/04
B29C 64/106
B33Y 80/00
H01B 17/28
(11) EP3361481
(21) EP17155617.8
(47) 26.01.2022
(22) 10.02.2017
(54) PRODUCING POWER BUSHING CONDENSER CORE BY ADDITIVE MANUFACTURING
(73) Hitachi Energy Switzerland AG
(72) HEDLUND, Roger
FORSSEN, Cecilia
LAVESSON, Nils
MATYSIAK, Lukasz
VIERTEL, Julia
CZYZEWSKI, Jan
FALEKE, Håkan
SCHIESSLING, Joachim
MARTINI, Harald
ROCKS, Jens

(51) H01F 1/24
H01F 27/255
H01F 41/02
H01F 17/04
H01F 27/29
C22C 38/02
C22C 38/06
C22C 38/18
B22F 3/24
B22F 5/10
H01F 1/26
(11) EP3605567
(21) EP18771675.8
(47) 26.01.2022
(87) JP2018011860
27.09.2018
(22) 23.03.2018
(54) POWDER MAGNETIC CORE WITH ATTACHED TERMINALS AND METHOD FOR MANUFACTURING THE SAME
(73) Hitachi Metals, Ltd.
(72) UCHIKAWA, Akio
(31) 2017059694
(32) 24.03.2017
(33) Japan

(51) H01F 3/10
H01F 38/14
H01F 3/14
(11) EP3188199
(21) EP16205895.2
(47) 26.01.2022
(22) 21.12.2016
(54) DEVICE FOR CONTACTLESS TRANSMISSION OF ELECTRIC ENERGY INTO A MOVING SYSTEM OF A SLIDING DEVICE
(73) Schneeberger Holding AG
(72) Vix, Martin
(31) 15405077
(32) 31.12.2015
(33) European Patent Office (EPO)

(51) H01F 6/06
G01R 33/3815
(11) EP3772071
(21) EP20186807.2
(47) 26.01.2022
(22) 20.07.2020
(54) MAGNETIC COIL SYSTEM WITH INTEGRATED JOINTS, IN PARTICULAR

HTS-LTS JOINTS, AND ASSOCIATED MAGNET ASSEMBLY
(73) Bruker Switzerland AG
(72) Herzog, Robert
Vonlanthen, Patrik
(31) 102019211478
(32) 31.07.2019
(33) Germany

(51) H01F 6/06
H01F 41/04
(11) EP3176795
(21) EP16200176.2
(47) 26.01.2022
(22) 23.11.2016
(54) SOLENOID ASSEMBLY WITH ANISOTROPIC SUPERCONDUCTOR
(73) Bruker Switzerland AG
(72) Vonlanthen, Patrik
Günter, Kenneth
Schauwecker, Robert
(31) 102015223991
(32) 02.12.2015
(33) Germany

(51) H01F 27/32
H01F 27/34
H01F 27/28
H01F 27/36
(11) EP3544033
(21) EP18162739.9
(47) 26.01.2022
(22) 20.03.2018
(54) ELECTROMAGNETIC INDUCTION DEVICE HAVING A LOW LOSSES WINDING
(73) Hitachi Energy Switzerland AG
(72) BUSTREO, Gianluca
ZANNOL, Roberto
BORTOLI, Rina

(51) H01F 27/36
H01F 27/38
H01F 38/18
(11) EP3772072
(21) EP20187818.8
(47) 26.01.2022
(22) 27.07.2020
(54) COIL ASSEMBLY AND DEVICE FOR WIRELESS ELECTROMAGNETIC ENERGY TRANSMISSION
(73) Würth Elektronik eiSos GmbH & Co. KG
(72) Schaffelhofer, Christopher
Som, Cem
(31) 102019211399
(32) 31.07.2019
(33) Germany

(51) H01F 27/38
H01F 27/42
H01F 38/14
H01F 19/08
(11) EP3542378
(21) EP16797927.7
(47) 26.01.2022
(87) EP2016078069
24.05.2018
(22) 17.11.2016
(54) ISOLATION TRANSFORMER WITH LOW UNWANTED RESONANCES, ENERGY TRANSFER DEVICE HAVING AN ISOLATION TRANSFORMER AND ENERGY TRANSFER DEVICE FOR WIRELESS TRANSFER OF ENERGY HAVING AN ISOLATION TRANSFORMER
(73) TDK Electronics AG
(72) BECK, Fabian

(51) H01F 41/02
B22F 3/00
B22F 3/02
B22F 3/10
B22F 3/14
B22F 3/15
B22F 9/04
C22C 33/02
H01F 1/057
H01F 1/08
H01F 1/113
C22C 38/00
B22F 1/00
B22F 3/18
B22F 7/04
(11) EP2827348
(21) EP13761122.4
(47) 26.01.2022
(87) JP2013056433
19.09.2013
(22) 08.03.2013
(54) RARE EARTH PERMANENT MAGNET AND METHOD FOR PRODUCING RARE EARTH PERMANENT MAGNET
(73) Nitto Denko Corporation
(72) OZEKI, Izumi
OZAKI, Takashi
YAMAMOTO, Takashi
KUME, Katsuya
OKUNO, Toshiaki
TAIHAKU, Keisuke
OMURE, Tomohiro
(31) 2012054698
2012054697
2012054696
2012054695
(32) 12.03.2012
12.03.2012
12.03.2012
12.03.2012
(33) Japan
Japan
Japan
Japan

(51) H01G 4/20
C08K 3/00
C08L 101/00
H01B 17/56
H01G 4/18
H01G 4/12
C04B 35/468
(11) EP3029694
(21) EP14831637.5
(47) 26.01.2022
(87) JP2014070087
05.02.2015
(22) 30.07.2014
(54) DIELECTRIC FILM, FILM CAPACITOR AND ELECTRIC DEVICE
(73) Kyocera Corporation
(72) KAMIGAKI, Kousei
(31) 2013157867
(32) 30.07.2013
(33) Japan

(51) H01G 9/20
(11) EP3503141
(21) EP17209762.8
(47) 26.01.2022
(22) 21.12.2017
(54) A SOLAR CELL AND A METHOD FOR MANUFACTURING THE SOLAR CELL
(73) Exeger Operations AB
(72) Lindström, Henrik

(51) H01H 1/56
H01H 3/42
H01H 9/26
H02J 9/06
H01H 1/22
H01H 1/50
H01H 3/28
(11) EP3451354
(21) EP18306145.6
(47) 26.01.2022
(22) 29.08.2018
(54) OVERLAPPING MECHANISM FOR THE NEUTRAL IN AUTOMATIC TRANSFER SWITCH EQUIPMENT (ATSE)
(73) Schneider Electric Industries SAS
(72) LIU, Zhenzhong
(31) 201721091783 U
(32) 29.08.2017
(33) China

(51) H01H 3/30
H01H 3/42
(11) EP3513418
(21) EP17765457.1
(47) 26.01.2022
(87) EP2017073169
22.03.2018
(22) 14.09.2017
(54) MECHANISM FOR OPENING AND CLOSING A CIRCUIT BREAKER
(73) Eaton Intelligent Power Limited
(72) LAMMERS, Arend
VATHARKAR, Akshay
MD, Jinto
(31) 201611031325
201620240
(32) 14.09.2016
29.11.2016
(33) India
United Kingdom

(51) H01H 47/00
(11) EP3051556
(21) EP15189782.4
(47) 26.01.2022
(22) 14.10.2015
(54) RELAY UNIT, CONTROL METHOD FOR RELAY UNIT
(73) OMRON Corporation
(72) MURAKAMI, Kohei
FUJII, Satoshi
FUKUMOTO, Tetsuya
YAYAMA, Keishi
HIGUCHI, Toshiyuki
(31) 2015018893
(32) 02.02.2015
(33) Japan

(51) H01H 50/54

(11) EP3891773
(21) EP20717871.6
(47) 26.01.2022
(87) EP2020060197
15.10.2020
(22) 09.04.2020
(54) BIDIRECTIONAL SWITCHING CONTACTOR COMPRISING A Z-SHAPED CONTACT BRIDGE
(73) Schaltbau GmbH
(72) GESCHKE, Martin
KREUZPOINTER, Korbinian
IGNATOV, Andrej
(31) 102019109257
(32) 09.04.2019
(33) Germany

(51) H01H 71/74
H02H 3/00
(11) EP3451361
(21) EP18192374.9
(47) 26.01.2022
(22) 04.09.2018
(54) ELECTRIC SWITCHING DEVICE AND ASSOCIATED CONFIGURATION AND DIAGNOSTIC METHODS
(73) Schneider Electric Industries SAS
(72) ODILLE, Fabien
(31) 1758182
(32) 05.09.2017
(33) France

(51) H01J 29/46
B23K 26/067
H01J 9/24
H01S 3/00
H01L 21/02
B23K 26/06
B23K 103/00
H01L 27/12
(11) EP3340402
(21) EP17208649.8
(47) 26.01.2022
(22) 19.12.2017
(54) LASER POLYCRYSTALLIZATION APPARATUS
(73) Samsung Display Co., Ltd.
(72) ASLANOV, Emil
LEE, Haesook
HAN, Gyoowan
RYU, Jekil
(31) 20160175628
(32) 21.12.2016
(33) Korea (Republic)

(51) H01J 37/26
H01J 37/18
H01J 37/20
H01J 37/22
(11) EP3332417
(21) EP17807686.5
(47) 26.01.2022
(87) CN2017083824
19.04.2018
(22) 10.05.2017
(54) CHARGED PARTICLE BEAM SYSTEM, OPTO-ELECTRO SIMULTANEOUS DETECTION SYSTEM AND METHOD
(73) Focus-eBeam Technology (Beijing) Co., Ltd.
(72) HE, Wei
WANG, Peng
LI, Shuai
(31) 201610887597
(32) 11.10.2016
(33) China

(51) H01J 49/04
G01N 27/62
(11) EP2864998
(21) EP13776541.8
(47) 26.01.2022
(87) GR2013000037
03.01.2014
(22) 25.06.2013
(54) IMPROVEMENTS IN AND RELATING TO THE CONTROL OF IONS
(73) Fasmatech Science and Technology SA
(72) ORFANOPOULOS, Ioannis
RAPTAKIS, Emmanuel
PAPANASTASIOU, Dimitris
NIKOLOS, Ioannis K.
LEKKAS, Alexander
KOUNADIS, Diamantis
(31) 201211186
(32) 24.06.2012
(33) United Kingdom

(51) H01L 21/20
H01L 29/786
H01L 27/12
H01L 23/00
H01L 31/0392
H01L 29/06
(11) EP1759422
(21) EP05755193.9
(47) 26.01.2022
(87) US2005019354
22.12.2005
(22) 02.06.2005
(54) ELECTRICAL DEVICE COMPRISING PRINTABLE SEMICONDUCTOR ELEMENTS
(73) THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS
(72) NUZZO, Ralph, G.
MENARD, Etienne
ZHU, Zhengtao
LEE, Keon Jae
SUN, Yugang
ROGERS, John, A.
KHANG, Dahl-Young
MEITL, Matthew
(31) 677617 P
663391 P
650305 P
601061 P
577077 P
(32) 04.05.2005
18.03.2005
04.02.2005
11.08.2004
04.06.2004
(33) United States of America
United States of America
United States of America
United States of America
United States of America

(51) H01L 21/48
H01L 23/373
H01L 23/433
H01L 23/42
B21D 33/00
B21D 53/04
B21D 13/02
F28F 13/00
(11) EP2854170
(21) EP13306340.4
(47) 26.01.2022
(22) 27.09.2013
(54) A structure for a heat transfer interface and method of manufacturing the same
(73) Alcatel Lucent
(72) Robinson, Anthony
Lyons, Alan Michael
Kempers, Roger Scott
Ahern, Paul

(51) H01L 21/60
H01L 23/48
(11) EP2434539
(21) EP11174096.5
(47) 26.01.2022
(22) 15.07.2011
(54) System and method of chip package build-up
(73) General Electric Company
(72) McConnelee, Paul Alan
Principe, Laura A.
Smith, Scott
Durocher, Kevin Matthew
(31) 843606
(32) 26.07.2010
(33) United States of America

(51) H01L 21/677
(11) EP3220413
(21) EP16160367.5
(47) 26.01.2022
(22) 15.03.2016
(54) SERVICE DEVICE
(73) Integrated Dynamics Engineering GmbH
(72) Schadt, Simon
Evers, Arndt
Birkner, Andreas

(51) H01L 23/32
H01L 23/40
H01L 23/00
H01L 25/11
(11) EP3501041
(21) EP16775115.5
(47) 26.01.2022
(87) EP2016072255
29.03.2018
(22) 20.09.2016
(54) CORRUGATED PANEL FOR A CLAMPING ARRANGEMENT FOR A SEMICONDUCTOR ELEMENT AND CLAMPING ARRANGEMENT
(73) Siemens Energy Global GmbH & Co. KG
(72) BÖHM, Matthias
SCHMITT, Daniel

(51) H01L 23/367
F28D 1/02
(11) EP3734655
(21) EP19213498.9
(47) 26.01.2022
(22) 04.12.2019
(54) HIGH EFFICIENCY INTEGRATED AX-RADIAL BLOWER AND HEAT EXCHANGER

(73) Hamilton Sundstrand Corporation
(72) HALBE, Chaitanya Vishwajit
PEARSON, Matthew Robert
(31) 201916399585
(32) 30.04.2019
(33) United States of America

(51) H01L 23/373
H01L 23/495
H01L 23/492
H01L 25/07
H01L 23/473
H01L 25/18
(11) EP3117458
(21) EP15718426.8
(47) 26.01.2022
(87) AT2015000037
17.09.2015
(22) 10.03.2015
(54) ELECTRIC COMPONENT ASSEMBLY
(73) EGSTON Power Electronics GmbH
(72) JAMY, Roman
PRAND-STRITZKO, Ernst
(31) 1712014
(32) 10.03.2014
(33) Austria

(51) H01L 23/473
(11) EP3770958
(21) EP18910320.3
(47) 26.01.2022
(87) JP2018010730
26.09.2019
(22) 19.03.2018
(54) LIQUID-COOLED COOLER
(73) Mitsubishi Electric Corporation
(72) ARATA, Kazuki
TAMURA, Masayoshi
NAKAMURA, Takuya

(51) H01L 23/498
H01L 23/50
(11) EP3819935
(21) EP20205653.7
(47) 26.01.2022
(22) 04.11.2020
(54) CONNECTING STRUCTURE INCLUDING CIRCUIT BODY AND CONDUCTIVE BODY
(73) YAZAKI CORPORATION
(72) Nakagawa, Mariko
Yasuda, Tomoji
Ichikawa, Yoshiaki
Oga, Tatsuya
(31) 2019200732
(32) 05.11.2019
(33) Japan

(51) H01L 25/075
(11) EP3158583
(21) EP15736209.6
(47) 26.01.2022
(87) EP2015063709
23.12.2015
(22) 18.06.2015
(54) MICRO ASSEMBLED LED DISPLAYS
(73) X Display Company Technology Limited
(72) MEITL, Matthew
KNEEBURG, David
PREVATTE, Carl
BOWER, Christopher
GOMEZ, David
BONAFEDE, Salvatore
FECIORU, Alin
(31) 201562169531 P
201562148603 P
201562131230 P
201462056419 P
201462055485 P
201462029533 P
201462026695 P
201462014077 P
(32) 01.06.2015
16.04.2015
10.03.2015
26.09.2014
25.09.2014
27.07.2014
20.07.2014
18.06.2014
(33) United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America

(51) H01L 25/075
H01L 33/48
H01L 33/62
H01L 33/64
H01L 33/00
H01L 33/54
(11) EP3467887
(21) EP17802726.4
(47) 26.01.2022
(87) JP2017018968
30.11.2017
(22) 22.05.2017
(54) LED LIGHTING DEVICE AND METHOD FOR MANUFACTURING LED LIGHTING DEVICE
(73) Citizen Watch Co., Ltd.
Citizen Electronics Co., Ltd.
(72) IINO Takashi
IMAI Sadato
(31) 2016102948
(32) 24.05.2016
(33) Japan

(51) H01L 25/16
H01L 33/52
(11) EP3719837
(21) EP20168070.9
(47) 26.01.2022
(22) 03.04.2020
(54) LIGHT-EMITTING UNIT PROVIDED WITH DISCOLORATION-PREVENTION FEATURES, AND METHOD FOR PREVENTING DISCOLORATION
(73) STMicroelectronics S.r.l.
(72) ALESSI, Enrico Rosario
SPINELLA, Giuseppe
(31) 201900005242
(32) 05.04.2019
(33) Italy

(51) H01L 27/02
H03H 11/38
H02H 9/04
(11) EP3447800
(21) EP17905914.2
(47) 26.01.2022
(87) CN2017088201
20.12.2018
(22) 14.06.2017
(54) MOS FIELD EFFECT TRANSISTOR-BASED FILTER CIRCUIT AND CHIP
(73) Shenzhen Goodix Technology Co., Ltd.
(72) CHEN, Jianxing

(51) H01L 27/15
H01L 25/075
H01L 25/16
H01L 33/38
(11) EP3813119
(21) EP20200803.3
(47) 26.01.2022
(22) 08.10.2020
(54) DEVICE FOR LED EMISSIVE DISPLAY
(73) Commissariat à l'Energie Atomique et aux Energies Alternatives
(72) SIMON, Julia
(31) 1911815
(32) 22.10.2019
(33) France

(51) H01L 27/32
(11) EP3316309
(21) EP17197796.0
(47) 26.01.2022
(22) 23.10.2017
(54) ORGANIC LIGHT-EMITTING DISPLAY DEVICE
(73) LG Display Co., Ltd.
(72) JUNG, Won-June
SHIN, Woo-Sup
PARK, Sang-Moo
(31) 20160143719
(32) 31.10.2016
(33) Korea (Republic)

(51) H01L 29/40
H01L 29/78
H01L 21/336
(11) EP3217432
(21) EP17159487.2
(47) 26.01.2022
(22) 07.03.2017
(54) SEMICONDUCTOR DEVICE CAPABLE OF HIGH-VOLTAGE OPERATION
(73) MediaTek Inc.
(72) LIN, Cheng Hua
HU, Chu-Wei
(31) 201715426414
201662401284 P
201662382804 P
201662306661 P
(32) 07.02.2017
29.09.2016
02.09.2016
11.03.2016
(33) United States of America
United States of America
United States of America
United States of America

(51) H01L 29/423
G11C 16/04
H01L 27/11521
G11C 16/10
G11C 16/16
H01L 21/28

(11) EP3449486
(21) EP17790086.7
(47) 26.01.2022
(87) US2017025683
02.11.2017
(22) 03.04.2017
(54) SPLIT-GATE, TWIN-BIT NON-VOLATILE MEMORY CELL
(73) Silicon Storage Technology, Inc.
(72) WANG, Chunming
DO, Nhan
(31) 201610285454
201715476663
(32) 29.04.2016
31.03.2017
(33) China
United States of America

(51) H01L 29/778
H01L 21/318
H01L 21/336
H01L 23/29
H01L 21/02
H01L 29/20
H01L 29/423
H01L 29/417
(11) EP3140868
(21) EP15789087.2
(47) 26.01.2022
(87) US2015027175
12.11.2015
(22) 22.04.2015
(54) SEMICONDUCTOR STRUCTURE HAVING A PASSIVATED III-NITRIDE LAYER AND METHOD FOR MANUFACTURING THEREOF
(73) HRL Laboratories, LLC
(72) CHU, Rongming
CHEN, Xu
(31) 201414272993
(32) 08.05.2014
(33) United States of America

(51) H01L 29/78
H01L 29/08
H01L 21/336
(11) EP3144974
(21) EP15185954.3
(47) 26.01.2022
(22) 18.09.2015
(54) SEMICONDUCTOR DEVICE
(73) Ampleon Netherlands B.V.
(72) De Boet, Johannes Adrianus Maria

(51) H01L 31/02
H01L 25/16
H01L 31/0203
H01L 31/0232
H01L 31/167
(11) EP3408865
(21) EP17707230.3
(47) 26.01.2022
(87) EP2017054075
31.08.2017
(22) 22.02.2017
(54) DEVICE CARRIER COMPRISING CONTACT CHAMBERS FOR AN OPTOELECTRONIC APPARATUS
(73) Vishay Semiconductor GmbH
(72) KUHN, Sascha
MÜHLECK, Peter
BURGER, Daniel
(31) 102016103136
(32) 23.02.2016
(33) Germany

(51) H01L 31/02
H01L 27/14
H01L 27/148
H01L 29/762
H01L 25/04
H01L 31/101
(11) EP3792983
(21) EP19914691.1
(47) 26.01.2022
(87) JP2019030078
04.02.2021
(22) 31.07.2019
(54) LIGHT-RECEIVING ELEMENT UNIT
(73) Kyoto Semiconductor Co., Ltd.
(72) ITAZAKI Yu
OMURA ETSUJI

(51) H01L 31/0203
E06B 9/68
(11) EP3782198
(21) EP19720512.3
(47) 26.01.2022
(87) EP2019060226
24.10.2019
(22) 19.04.2019
(54) COMMUNICATING SENSOR FOR A HOME AUTOMATION SYSTEM, AND HOME AUTOMATION SYSTEM COMPRISING SUCH A SENSOR
(73) Somfy Activites SA
(72) PREVOTEAU, Mathieu
CLERY, Sébastien
(31) 1853515
(32) 20.04.2018
(33) France

(51) H01L 31/0203
H01L 31/0232
H01L 33/52
H01L 33/54
H01L 33/56
H01L 27/146
(11) EP3762970
(21) EP19710812.9
(47) 26.01.2022
(87) SG2019050107
12.09.2019
(22) 27.02.2019
(54) WAFER-LEVEL METHOD FOR MANUFACTURING OPTOELECTRONIC MODULES
(73) AMS Sensors Singapore Pte. Ltd.
(72) NG, Kim Lung
YU, Qi Chuan
LEONG, Kam Wah
WANG, Ji
RUDMANN, Hartmut
(31) 201862639700 P
(32) 07.03.2018
(33) United States of America

(51) H01L 31/0224
H01L 31/074
H01L 31/0468
(11) EP3776665
(21) EP19724902.2
(47) 26.01.2022
(87) IB2019000296
17.10.2019
(22) 10.04.2019
(54) OPTIMIZATION OF THE METAL/METAL ELECTRICAL CONTACT IN A THIN-FILM SEMITRANSPARENT PHOTOVOLTAIC DEVICE
(73) Garmin Switzerland GmbH
(72) BOUCHOUCHA, Mohamed
(31) 1800301
(32) 11.04.2018
(33) France

(51) H01L 31/04
H01L 31/0224
H01L 31/18
G06F 3/041
C01B 21/082
(11) EP2973736
(21) EP14768368.4
(47) 26.01.2022
(87) US2014027400
25.09.2014
(22) 14.03.2014
(54) NITROGEN-CONTAINING TRANSPARENT CONDUCTIVE OXIDE CAP LAYER COMPOSITION
(73) Arkema, Inc.
(72) KOROTKOV, Roman Y.
REILLY, Jack J.
(31) 201361789018 P
(32) 15.03.2013
(33) United States of America

(51) H01L 31/05
(11) EP3235012
(21) EP15813712.5
(47) 26.01.2022
(87) EP2015078307
23.06.2016
(22) 02.12.2015
(54) METHOD FOR INTERCONNECTING BACK-CONTACT PHOTOVOLTAIC CELLS
(73) IMEC VZW
(72) BORGERS, Tom
SZLUFCIK, Jozef
(31) 14197975
(32) 15.12.2014
(33) European Patent Office (EPO)

(51) H01L 31/05
H02S 40/22
(11) EP3242334
(21) EP17169073.8
(47) 26.01.2022
(22) 02.05.2017
(54) SOLAR CELL MODULE
(73) LG Electronics, Inc.
(72) HYUN, Daeseon
PARK, Hyunjung
KIM, Minpyo
KANG, Byungjun
SHIM, Goohwan
YANG, Hyeyoung
KIM, Bojoong
KWON, Joonhan
(31) 20160069195
20160056860
20160054593
(32) 03.06.2016

10.05.2016
03.05.2016
(33) Korea (Republic)
Korea (Republic)
Korea (Republic)

(51) H01L 31/0687
H01L 31/0224
H01L 27/142
(11) EP3065177
(21) EP16000369.5
(47) 26.01.2022
(22) 15.02.2016
(54) SOLAR CELL DEVICE
(73) AZUR SPACE Solar Power GmbH
(72) Fuhrmann, Daniel
Lauermann, Thomas
Meusel, Matthias
Köstler, Wolfgang
(31) 102015002513
(32) 02.03.2015
(33) Germany

(51) H01L 31/117
G01T 1/24
(11) EP3613086
(21) EP18787188.4
(47) 26.01.2022
(87) US2018025436
25.10.2018
(22) 30.03.2018
(54) CENTROID CONTACT RADIATION DETECTOR SYSTEM AND METHOD
(73) Mirion Technologies (Canberra), Inc.
(72) YOCUM, Kenneth Michael
COLARESI, James Francis
ADEKOLA, Aderemi Sikiru
(31) 201715491709
(32) 19.04.2017
(33) United States of America

(51) H01L 33/00
H01L 27/15
(11) EP3605616
(21) EP17904056.3
(47) 26.01.2022
(87) CN2017083689
04.10.2018
(22) 10.05.2017
(54) PIXEL STRUCTURE AND MANUFACTURING METHOD
(73) Shenzhen China Star Optoelectronics Technology Co., Ltd.
(72) LI, Dongze
CHEN, Lixuan
(31) 201710207848
(32) 31.03.2017
(33) China

(51) H01L 33/50
F21S 2/00
F21K 99/00
F21Y 113/00
(11) EP2772953
(21) EP12844001.3
(47) 26.01.2022
(87) JP2012077296
02.05.2013
(22) 23.10.2012
(54) WHITE LIGHT SOURCE AND WHITE LIGHT SOURCE SYSTEM USING WHITE LIGHT SOURCE
(73) Seoul Semiconductor Co., Ltd.
(72) SHIRAKAWA, Yasuhiro
YAMAKAWA, Masahiko
(31) 2011233420
2011233422
(32) 24.10.2011
24.10.2011
(33) Japan
Japan

(51) H01L 33/56
C08K 3/22
C09D 183/06
C09D 183/08
C08L 83/14
(11) EP3485520
(21) EP17740375.5
(47) 26.01.2022
(87) EP2017067809
25.01.2018
(22) 14.07.2017
(54) FORMULATION FOR AN LED ENCAPSULATION MATERIAL
(73) Merck Patent GmbH
(72) GROTTENMUELLER, Ralf
KITA, Fumio
CASAS GARCIA-MINGUILLAN, Abraham
WAGNER, Dieter
(31) 201662363502 P
(32) 18.07.2016
(33) United States of America

(51) H01L 43/10
G11B 5/39
H01L 21/8246
H01L 27/105
H01L 43/08
(11) EP3279957
(21) EP16772730.4
(47) 26.01.2022
(87) JP2016059884
06.10.2016
(22) 28.03.2016
(54) MAGNETORESISTIVE EFFECT ELEMENT
(73) TDK Corporation
(72) SASAKI Tomoyuki
(31) 2015071410
(32) 31.03.2015
(33) Japan

(51) H01L 51/00
H01L 51/52
H01L 27/32
(11) EP3217447
(21) EP17160194.1
(47) 26.01.2022
(22) 09.03.2017
(54) DISPLAY APPARATUS
(73) Samsung Display Co., Ltd.
(72) KIM, Kwansu
KIM, Yongjin
HAN, Junghoon
PARK, Jinwoo
RYU, Jiseok
(31) 20160029691
(32) 11.03.2016
(33) Korea (Republic)

(51) H01L 51/52
B32B 27/08
B32B 27/36
B32B 27/40
B32B 7/12
(11) EP3390052
(21) EP16876371.2
(47) 26.01.2022
(87) US2016064315
22.06.2017
(22) 01.12.2016
(54) PROTECTIVE DISPLAY FILM
(73) 3M Innovative Properties Company
(72) BREEDLOVE, Evan L.
SCHAFFER, Kevin R.
JOHNSON, Michael A.
THOMPSON, David Scott
RULE, Joseph D.
LEATHERDALE,Catherine A.
STRADINGER, John J.
SOLOMONSON, Steven D.
ZHANG, Peihui
BRAUN, Ryan M.
(31) 201514969002
(32) 15.12.2015
(33) United States of America

(51) H01L 51/52
H01L 27/32
(11) EP3131132
(21) EP16180944.7
(47) 26.01.2022
(22) 25.07.2016
(54) DISPLAY APPARATUS AND METHOD OF MANUFACTURING THE DISPLAY APPARATUS
(73) Samsung Display Co., Ltd.
(72) Chang, Seungwook
Kang, Kinyeng
Choi, Jonghyun
(31) 20150113368
(32) 11.08.2015
(33) Korea (Republic)

(51) H01L 51/54
(11) EP3800679
(21) EP20198836.7
(47) 26.01.2022
(22) 28.09.2020
(54) ORGANIC ELECTROLUMINESCENCE DEVICE
(73) Samsung Display Co., Ltd.
(72) YOON, Seokgyu
SHIN, Hyosup
JEONG, Hyein
CHO, Kunwook
LYU, Jaejin
KIM, Eung Do
LEE, YOUNGKI
CHOI, Youngeun
GU CHO, Hyeon
CHOI, Minsoo
LEE, Jungsub
LEE, Jiyoung
KIM, Hyunyoung
JUNG, Hyejin
KIM, Minje
KIM, Hyojeong
(31) 20190121814
(32) 01.10.2019
(33) Korea (Republic)

(51) H01L 51/54

C07D 491/00
C07C 13/00
C07C 15/00
(11) EP3540803
(21) EP18202929.8
(47) 26.01.2022
(22) 26.10.2018
(54) ORGANIC LIGHT-EMITTING DEVICE
(73) Samsung Display Co., Ltd.
(72) HWANG, Seokhwan
HAN, Sanghyun
JEONG, Eunjae
BAEK, Jangyeol
KIM, Jongwoo
KIM, Youngkook
(31) 20180029286
(32) 13.03.2018
(33) Korea (Republic)

(51) H01L 51/54
C07D 495/00
C07D 491/00
C07D 498/10
C07D 471/10
(11) EP3764416
(21) EP20185207.6
(47) 26.01.2022
(22) 10.07.2020
(54) COMPOUND FOR ORGANIC ELECTRONIC ELEMENT, ORGANIC ELECTRONIC ELEMENT USING THE SAME, AND AN ELECTRONIC DEVICE THEREOF
(73) Duk San Neolux Co., Ltd.
(72) KANG, Byoung Yeop
SO, Ki Ho
KIM, Won Sam
OH, Dae Hwan
LEE, Hyung Dong
(31) 20200057682
20190101535
20190083318
(32) 14.05.2020
20.08.2019
10.07.2019
(33) Korea (Republic)
Korea (Republic)
Korea (Republic)

(51) H01M 4/04
H01G 11/52
H01M 4/02
H01M 4/13
H01M 10/04
H01M 10/052
H01M 10/058
H01M 50/409
H01M 50/463
(11) EP3361547
(21) EP16853279.4
(47) 26.01.2022
(87) JP2016004510
13.04.2017
(22) 06.10.2016
(54) POWER STORAGE ELEMENT
(73) GS Yuasa International Ltd.
(72) TANAKA, Kie
(31) 2015200833
(32) 09.10.2015
(33) Japan

(51) H01M 4/04
H01M 4/131
H01M 10/052
H01M 10/0562
H01M 4/02
(11) EP3680959
(21) EP20150457.8
(47) 26.01.2022
(22) 07.01.2020
(54) POSITIVE ELECTRODE FOR SOLID-STATE SECONDARY BATTERY, METHOD OF PREPARING THE SAME, POSITIVE ELECTRODE ASSEMBLY FOR SOLID-STATE SECONDARY BATTERY INCLUDING THE SAME, AND SOLID-STATE SECONDARY BATTERY INCLUDING THE SAME
(73) The Regents of the University of California
Samsung Electronics Co., Ltd.
(72) CEDER, Gerbrand
TU, Qingsong
SHI, Tan
MIARA, Lincoln
(31) 20190136947
201916459896
201962823509 P
201962789812 P
(32) 30.10.2019
02.07.2019
25.03.2019
08.01.2019
(33) Korea (Republic)
United States of America
United States of America
United States of America

(51) H01M 4/139
H01M 4/04
H01M 10/058
H01M 10/0525
H01M 4/134
H01M 10/0562
H01M 4/133
H01M 4/1393
H01M 4/1395
H01M 4/583
H01M 4/36
H01M 4/38
H01M 4/587
H01M 4/62
(11) EP3675246
(21) EP19771006.4
(47) 26.01.2022
(87) KR2019003266
26.09.2019
(22) 20.03.2019
(54) METHOD FOR MANUFACTURING NEGATIVE ELECTRODE AND NEGATIVE ELECTRODE OBTAINED THEREFROM
(73) LG Energy Solution Ltd.
(72) KIM, Je-Young
CHAE, Oh-Byong
WOO, Sang-Wook
(31) 20180032219
(32) 20.03.2018
(33) Korea (Republic)

(51) H01M 4/139
H01M 4/62
H01M 4/75
H01M 4/04
H01M 10/04
H01M 10/058
H01M 10/0587
H01M 10/052
H01M 4/134
H01M 4/1395
H01M 4/36
H01M 4/38
(11) EP3614465
(21) EP18852106.6
(47) 26.01.2022
(87) KR2018010185
07.03.2019
(22) 31.08.2018
(54) METHOD FOR MANUFACTURING ANODE FOR CABLE-TYPE SECONDARY BATTERY, ANODE MANUFACTURED THEREBY, AND CABLE-TYPE SECONDARY BATTERY INCLUDING SAME ANODE
(73) LG Energy Solution Ltd.
(72) UHM, In-Sung
KANG, Dong-Hyeon
CHOI, Jung-Hun
LEE, Yong-Hee
KANG, Sung-Joong
SON, Byoung-Kuk
LEE, Dong-Chan
JANG, Min-Chul
(31) 20170112133
(32) 01.09.2017
(33) Korea (Republic)

(51) H01M 4/24
H01M 4/36
H01M 4/42
H01M 6/04
(11) EP1714337
(21) EP05722804.1
(47) 26.01.2022
(87) US2005003847
01.09.2005
(22) 08.02.2005
(54) ELECTROCHEMICAL CELL INCORPORATING ZINC IN THE ANODE
(73) Energizer Brands, LLC
(72) CUI, Ning
TSAI, Peter, R.
(31) 778457
(32) 13.02.2004
(33) United States of America

(51) H01M 4/38
H01M 4/36
H01M 4/48
H01M 4/587
H01M 4/04
(11) EP3206244
(21) EP15849280.1
(47) 26.01.2022
(87) JP2015003831
14.04.2016
(22) 30.07.2015
(54) NEGATIVE ELECTRODE ACTIVE MATERIAL FOR NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY, NEGATIVE ELECTRODE

FOR NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY, NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY, AND METHOD FOR PRODUCING NEGATIVE ELECTRODE MATERIAL FOR NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY
(73) Shin-Etsu Chemical Co., Ltd.
(72) TAKAHASHI, Kohta
FURUYA, Masahiro
KAMO, Hiromichi
YOSHIKAWA, Hiroki
WATANABE, Koichiro
HIROSE, Takakazu
(31) 2014207514
(32) 08.10.2014
(33) Japan

(51) H01M 4/525
C01G 53/00
H01M 4/36
H01M 4/505
C08K 3/22
C08K 9/10
H01M 4/62
H01M 10/0525
H01M 4/02
(11) EP3151315
(21) EP15799658.8
(47) 26.01.2022
(87) JP2015064475
03.12.2015
(22) 20.05.2015
(54) COATED LITHIUM-NICKEL COMPOSITE OXIDE PARTICLES, AND METHOD FOR MANUFACTURING COATED LITHIUM-NICKEL COMPOSITE OXIDE PARTICLES
(73) Sumitomo Metal Mining Co., Ltd.
(72) OTA, Yosuke
(31) 2014112651
(32) 30.05.2014
(33) Japan

(51) H01M 4/58
H01M 10/054
C01B 25/42
H01M 4/1397
H01M 4/02
(11) EP3595061
(21) EP18763829.1
(47) 26.01.2022
(87) KR2018002700
13.09.2018
(22) 07.03.2018
(54) POSITIVE ELECTRODE ACTIVE MATERIAL FOR POTASSIUM SECONDARY BATTERY AND POTASSIUM SECONDARY BATTERY CONTAINING SAME
(73) Industry-Academia Cooperation Group of Sejong University
(72) SOHN, Kee-sun
PARK, Un-bea
(31) 20170182017
20170030364
(32) 28.12.2017
10.03.2017
(33) Korea (Republic)
Korea (Republic)

(51) H01M 4/96
H01M 4/88
H01M 8/10
H01M 4/92
(11) EP3621136
(21) EP18777621.6
(47) 26.01.2022
(87) JP2018014175
04.10.2018
(22) 02.04.2018
(54) CARBON MATERIAL FOR CATALYST CARRIER OF POLYMER ELECTROLYTE FUEL CELL, AND METHOD FOR MANUFACTURING SAME
(73) NIPPON STEEL Chemical & Material Co., Ltd.
(72) HAYASHIDA, Hiroyuki
FURUKAWA, Shinya
KOMURA, Tomoko
TADA, Wakana
TADOKORO, Kenichiro
MASAKI, Kazuyoshi
IIJIMA, Takashi
HIYOSHI, Masataka
(31) 2017070829
(32) 31.03.2017
(33) Japan

(51) H01M 8/0228
H01M 8/0215
H01M 8/021
H01M 8/12
C25D 9/04
H01M 8/124
(11) EP3662528
(21) EP18853713.8
(47) 26.01.2022
(87) KR2018010433
14.03.2019
(22) 06.09.2018
(54) INTERCONNECT FOR A SOLID OXIDE FUEL CELL, ITS MANUFACTURING METHOD, AND A SOLID OXIDE FUEL CELL
(73) LG Chem, Ltd.
(72) NOH, Tai Min
KIM, Daehwan
CHOI, Kwangwook
CHUNG, Chanyeup
PARK, Sanghyun
RYOO, Changseok
(31) 20170115336
(32) 08.09.2017
(33) Korea (Republic)

(51) H01M 8/0234
H01M 8/0239
H01M 8/0245
(11) EP3754770
(21) EP20180607.2
(47) 26.01.2022
(22) 17.06.2020
(54) METHOD FOR FORMING A HYDROPHOBIC ELECTRICALLY CONDUCTIVE MICROPOROUS LAYER FOR USE AS A GAS-DIFFUSION LAYER
(73) Commissariat à l'Energie Atomique et aux Energies Alternatives
(72) OZOUF, Guillaume
PICARD, Lionel
FOUDA-ONANA, Frédéric
PAUCHET, Joël
(31) 1906596
(32) 19.06.2019
(33) France

(51) H01M 8/0612
B64D 41/00
(11) EP3602668
(21) EP18712264.3
(47) 26.01.2022
(87) GB2018050637
27.09.2018
(22) 13.03.2018
(54) ELECTRICAL POWER GENERATION ON A VEHICLE
(73) BAE Systems PLC
(72) WOODHOUSE, Gordon, Charles
HOLLAND, Graham, Andrew
(31) 201704824
17250001
(32) 23.03.2017
23.03.2017
(33) United Kingdom
European Patent Office (EPO)

(51) H01M 8/18
(11) EP3818583
(21) EP19740317.3
(47) 26.01.2022
(87) EP2019067526
09.01.2020
(22) 01.07.2019
(54) USE OF AN ELECTROLYTE IN A REDOX FLOW BATTERY AND REDOX FLOW BATTERY
(73) Albert-Ludwigs-Universität Freiburg
(72) SCHMUCKER, Maximilian
BURGENMEISTER, Simeon, Benedikt
KROSSING, Ingo
(31) 102018116293
(32) 05.07.2018
(33) Germany

(51) H01M 10/04
H01G 11/06
H01M 10/052
H01M 10/058
H01M 10/36
H01M 10/38
(11) EP3164877
(21) EP15750086.9
(47) 26.01.2022
(87) GB2015051955
07.01.2016
(22) 06.07.2015
(54) BATTERY
(73) Enocell Limited
(72) MACPHEE, Donald
(31) 201411985
(32) 04.07.2014
(33) United Kingdom

(51) H01M 10/052
H01M 4/00
H01M 4/13
H01M 4/58
H01M 4/02

H01M 4/134
H01M 4/38
H01M 4/505
H01M 4/525
H01M 4/66
(11) EP3469648
(21) EP17810938.5
(47) 26.01.2022
(87) US2017036361
14.12.2017
(22) 07.06.2017
(54) HIGH ENERGY DENSITY, HIGH POWER DENSITY, HIGH CAPACITY, AND ROOM TEMPERATURE CAPABLE "ANODE-FREE" RECHARGEABLE BATTERIES
(73) SES Holdings Pte. Ltd.
(72) MATULEVICH, Yury
TANG, Yang
HU, Qichao
(31) 201662347361 P
(32) 08.06.2016
(33) United States of America

(51) H01M 10/6569
H01M 10/643
H01M 10/6554
H01M 10/625
(11) EP3542412
(21) EP17871285.7
(47) 26.01.2022
(87) US2017062253
24.05.2018
(22) 17.11.2017
(54) SYSTEMS AND METHODS FOR BATTERY THERMAL MANAGEMENT UTILIZING A VAPOR CHAMBER
(73) Romeo Systems, Inc.
(72) WANG, Qian
VITE, Berton
GREENE, W., Hunter
HARRIS, Porter
(31) 201662424054 P
(32) 18.11.2016
(33) United States of America

(51) H01M 12/08
H01M 10/0568
H01M 10/052
H01M 4/38
H01M 10/0569
(11) EP3637541
(21) EP18813033.0
(47) 26.01.2022
(87) JP2018017608
13.12.2018
(22) 07.05.2018
(54) LITHIUM-AIR-BATTERY USING A NON-AQUEOUS ELECTROLYTE
(73) National Institute for Materials Science
(72) XIN Xing
KUBO Yoshimi
ITO Kimihiko
(31) 2017113802
(32) 08.06.2017
(33) Japan

(51) H01M 50/20
H01M 50/30
(11) EP3675211
(21) EP19170790.0
(47) 26.01.2022
(22) 24.04.2019
(54) BATTERY MODULE AND BATTERY PACK
(73) Contemporary Amperex Technology Co., Limited
(72) HOU, Yuepan
YOU, Kaijie
CHEN, Xingdi
TANG, Yu
MA, Jun
LI, Ziyuan
(31) 201822274952 U
(32) 30.12.2018
(33) China

(51) H01M 50/296
H01M 50/583
H01M 50/204
H01M 50/209
(11) EP3736882
(21) EP20176107.9
(47) 26.01.2022
(22) 30.08.2018
(54) OUTPUT ELECTRODE PLATE AND BATTERY MODULE
(73) Contemporary Amperex Technology Co., Limited
(72) WANG, Wei
CHEN, Sien
ZENG, Xin
FENG, Chunyan
XU, Shoujiang
YU, Kaiqin
(31) 201810636713
(32) 20.06.2018
(33) China

(51) H01M 50/325
H01M 50/333
H01M 10/42
(11) EP3840083
(21) EP19218474.5
(47) 26.01.2022
(22) 20.12.2019
(54) THERMAL RUNAWAY DETECTION SYSTEM AND BATTERY SYSTEM
(73) Samsung SDI Co., Ltd.
(72) Haindl, Michael
Krois, Günter
Altenburger, Florian

(51) H01P 3/06
H01Q 9/04
H01P 3/08
(11) EP3641049
(21) EP19202456.0
(47) 26.01.2022
(22) 10.10.2019
(54) LOW-LOSS AND FLEXIBLE TRANSMISSION LINE-INTEGRATED ANTENNA FOR MMWAVE BAND
(73) Sensorview Incorporated
(72) YOO, Hong Il
KIM, Byoung Nam
(31) 20180124672
(32) 18.10.2018
(33) Korea (Republic)

(51) H01Q 1/20
B64C 1/36
F16B 5/02
H01Q 1/42
H01Q 1/28
(11) EP3470328
(21) EP18187999.0
(47) 26.01.2022
(22) 08.08.2018
(54) THERMAL GROWTH MANAGEMENT OF RADOME BY BOUNDARY CONSTRAINTS
(73) The Boeing Company
(72) Harleman, Thomas J.
Sanford, David E.
(31) 201715730082
(32) 11.10.2017
(33) United States of America

(51) H01Q 1/22
H01Q 3/24
H01Q 21/28
H04B 1/3827
(11) EP3400627
(21) EP16826880.3
(47) 26.01.2022
(87) US2016069056
13.07.2017
(22) 29.12.2016
(54) DYNAMIC ANTENNA POWER CONTROL FOR MULTI-CONTEXT DEVICE
(73) Microsoft Technology Licensing, LLC
(72) HARPER, Marc
KHAWAND, Charbel
MERCER, Sean Russell
(31) 201614987964
(32) 05.01.2016
(33) United States of America

(51) H01Q 1/22
H04M 1/02
G06K 19/06
H04B 5/00
H02J 7/02
H02J 50/12
H01Q 7/00
H02J 5/00
(11) EP3474369
(21) EP17831365.6
(47) 26.01.2022
(87) KR2017007828
25.01.2018
(22) 20.07.2017
(54) COIL SHARING METHOD AND DEVICE
(73) Samsung Electronics Co., Ltd.
(72) CHOI, Sehwan
LEE, Woosup
KIM, Taekun
PARK, Sungchul
KIM, Younju
PARK, Jungsik
SUNG, Jungoh
(31) 20160092056
(32) 20.07.2016
(33) Korea (Republic)

(51) H01Q 1/38
H01Q 1/24
H01Q 1/52
H01Q 21/28
H01Q 1/48
(11) EP3678260
(21) EP18867484.0

(47) 26.01.2022
(87) CN2018110224
25.04.2019
(22) 15.10.2018
(54) MULTIPLE-INPUT MULTIPLE-OUTPUT ANTENNA DEVICE FOR TERMINAL AND METHOD FOR REALIZING TRANSMISSION OF ANTENNA SIGNAL
(73) ZTE Corporation
(72) ZHOU, Chuangzhu
WANG, Xiaoming
WENG, Zibin
(31) 201710965699
(32) 17.10.2017
(33) China

(51) H01Q 1/52
H01Q 1/24
H01Q 1/42
H01Q 21/28
(11) EP3605729
(21) EP17903936.7
(47) 26.01.2022
(87) CN2017119236
04.10.2018
(22) 28.12.2017
(54) MOBILE TERMINAL ANTENNA AND MOBILE TERMINAL
(73) Vivo Mobile Communication Co., Ltd.
(72) CHEN, Yuwen
(31) 201710191650
(32) 28.03.2017
(33) China

(51) H01Q 9/42
H01Q 7/00
H01Q 5/328
H01Q 5/335
H01Q 5/371
H01Q 1/38
H01Q 1/24
(11) EP3499641
(21) EP18193355.7
(47) 26.01.2022
(22) 06.02.2015
(54) ANTENNA AND MOBILE TERMINAL
(73) Huawei Device Co., Ltd.
(72) LEE, Chien-Ming
WANG, Hanyang
(31) 201410049276
(32) 12.02.2014
(33) China

(51) H01Q 21/06
H01Q 21/26
H01Q 21/00
H01Q 15/14
H01Q 1/24
(11) EP3408891
(21) EP16925716.9
(47) 26.01.2022
(87) CN2016112469
05.07.2018
(22) 27.12.2016
(54) RADIATING INTEGRATED ANTENNA UNIT AND MULTI-ARRAY ANTENNA OF SAME
(73) Tongyu Communication Inc.
(72) WU, ZhongLin
LIU, Mulin
DOUDOU, Samb
ARI, Isola

(51) H01R 4/48
(11) EP2956991
(21) EP14703881.4
(47) 26.01.2022
(87) EP2014052722
21.08.2014
(22) 12.02.2014
(54) SPRING-LOADED CLAMPING CONNECTION AND CONDUCTOR TERMINAL
(73) Wago Verwaltungsgesellschaft mbH
(72) KÖLLMANN, Hans-Josef
GERBERDING, Wolfgang
(31) 102013101410
(32) 13.02.2013
(33) Germany

(51) H01R 4/48
H01R 9/26
(11) EP3718170
(21) EP18807615.2
(47) 26.01.2022
(87) EP2018082074
06.06.2019
(22) 21.11.2018
(54) CONNECTION DEVICE FOR CONNECTING A CONDUCTOR END
(73) Weidmüller Interface GmbH & Co. KG
(72) FEHLING, Stephan
WALDHOFF, Marco
STJEPANOVIC, Karlo
CLASSEN, Constantin
(31) 202017107208 U
(32) 28.11.2017
(33) Germany

(51) H01R 4/48
H01R 12/51
H01R 43/22
(11) EP3799212
(21) EP20187947.5
(47) 26.01.2022
(22) 27.07.2020
(54) TERMINAL BLOCK
(73) BJB GmbH & Co. KG
(72) Henrici, Philipp
Baumeister, Olaf
(31) 102019125886
(32) 26.09.2019
(33) Germany

(51) H01R 11/28
H01R 13/621
H01R 13/631
H01R 13/64
H01R 24/68
H01R 13/645
(11) EP3082196
(21) EP16165716.8
(47) 26.01.2022
(22) 18.04.2016
(54) KEYED POWER CONNECTOR
(73) Hamilton Sundstrand Corporation
(72) BELISLE, Francis C.
(31) 201514688329
(32) 16.04.2015
(33) United States of America

(51) H01R 13/24
H01R 12/72
H01R 12/71
H01R 12/73
H01R 12/57
(11) EP3109950
(21) EP15752647.6
(47) 26.01.2022
(87) JP2015054499
27.08.2015
(22) 18.02.2015
(54) CONNECTOR
(73) Iriso Electronics Co., Ltd.
(72) SATO, Katsumasa
KOBAYASHI, Hiroaki
(31) 2014028906
(32) 18.02.2014
(33) Japan

(51) H01R 13/42
H01R 13/506
H01R 13/516
H01R 101/00
H01R 31/06
(11) EP3338326
(21) EP16765910.1
(47) 26.01.2022
(87) DE2016100373
23.02.2017
(22) 18.08.2016
(54) CONNECTOR
(73) Harting Electric GmbH & Co. KG
(72) RIEPE, Dieter
GRUNWALD, Jens
LÖTKEMANN, Irina
MEIER, Heiko
(31) 102015113786
(32) 20.08.2015
(33) Germany

(51) H01R 13/629
H01R 13/56
(11) EP3863126
(21) EP21154013.3
(47) 26.01.2022
(22) 28.01.2021
(54) LEVER TYPE CONNECTOR
(73) Yazaki Corporation
(72) SEKINO, Tetsuya
KUBOTA, Hiromasa
(31) 2020019106
(32) 06.02.2020
(33) Japan

(51) H01R 13/629
H01R 13/639
(11) EP3685478
(21) EP18779191.8
(47) 26.01.2022
(87) DE2018100763
28.03.2019
(22) 07.09.2018
(54) PLUG CONNECTION HAVING A LOCKING CLIP HAVING A CATCH, AND METHOD FOR LOCKING AND UNLOCKING A PLUG CONNECTION
(73) HARTING Electric GmbH & Co. KG
(72) SCHNIEDER, Stefan
(31) 102017121868
(32) 21.09.2017
(33) Germany

(51) H01R 13/6594
H01R 13/703

H01R 13/6596
H01R 12/72
H01R 12/71
(11) EP3493335
(21) EP18209280.9
(47) 26.01.2022
(22) 29.11.2018
(54) APPARATUS WITH A CIRCUIT BOARD AND A CIRCUIT BOARD CONNECTOR
(73) Vestel Elektronik Sanayi ve Ticaret A.S.
(72) Egemen, Tufan
Gürgen, Engin
(31) 17204422
(32) 29.11.2017
(33) European Patent Office (EPO)

(51) H01R 13/66
H01R 13/70
H01R 24/78
H02G 3/10
H01R 25/00
(11) EP3675290
(21) EP18001017.5
(47) 26.01.2022
(22) 28.12.2018
(54) ELECTRICAL OUTLET AND METHOD
(73) Vestel Elektronik Sanayi ve Ticaret A.S.
(72) Erdinc, Cihan
Karatas, Mustafa

(51) H01R 33/90
H01R 33/22
H01R 33/46
F21K 9/235
H01K 1/46
H01J 5/56
H01R 13/625
H01R 13/622
H01R 31/06
(11) EP3488503
(21) EP17742839.8
(47) 26.01.2022
(87) GB2017052071
25.01.2018
(22) 13.07.2017
(54) BULB-CAP AND LIGHTBULB
(73) Core Lighting Limited
(72) ION, Phil
(31) 201612649
(32) 21.07.2016
(33) United Kingdom

(51) H01R 39/64
H01R 39/08
(11) EP3404778
(21) EP17878667.9
(47) 26.01.2022
(87) CN2017087388
14.06.2018
(22) 07.06.2017
(54) CONDUCTIVE RING ASSEMBLY, CONDUCTIVE DEVICE AND WIND TURBINE
(73) Beijing Goldwind Science & Creation Windpower Equipment Co., Ltd.
(72) LI, Qingjiang
MA, Lei
(31) 201611124216
(32) 08.12.2016
(33) China

(51) H01R 43/28
H01B 15/00
H02G 1/12
B26D 3/00
B26D 7/01
(11) EP3422494
(21) EP18180333.9
(47) 26.01.2022
(22) 28.06.2018
(54) DISCONNECTING DEVICE AND METHOD FOR DISCONNECTING A CABLE SLEEVE FROM A CABLE
(73) Komax SLE GmbH & Co. KG
(72) Köberl, Jürgen
(31) 102017114572
(32) 29.06.2017
(33) Germany

(51) H01S 5/022
H01S 5/00
H01S 5/042
H01S 5/40
(11) EP3706262
(21) EP20157339.1
(47) 26.01.2022
(22) 14.02.2020
(54) METHOD OF MANUFACTURING LIGHT EMITTING DEVICE, LIGHT EMITTING DEVICE, AND BASE MEMBER
(73) Nichia Corporation
(72) TAJI, Tomokazu
KITAJIMA, Tadayuki
(31) 2019172444
2019025299
(32) 24.09.2019
15.02.2019
(33) Japan
Japan

(51) H01T 4/04
H01T 4/06
H01T 4/08
H02H 9/04
H01Q 1/50
(11) EP3716419
(21) EP20173900.0
(47) 26.01.2022
(22) 13.12.2011
(54) OVERVOLTAGE PROTECTION SYSTEM FOR WIRELESS COMMUNICATION SYSTEMS
(73) Raycap, S.A.
(72) RICHARDS, Kelly, Rae
MILLER, Douglas, Wayne
SAMARAS, Konstantinos
SULLIVAN, Daniel, Joseph
FRAGKOS, Anastasios
MARATHIAS, Megaklis
(31) 201113301720
201161440609 P
(32) 21.11.2011
08.02.2011
(33) United States of America
United States of America

(51) H02B 1/03
(11) EP3654466
(21) EP18206675.3
(47) 26.01.2022
(22) 16.11.2018
(54) METER CARRIER BOARD FOR MOUNTING A METERING DEVICE IN A METER CABINET AND METER CABINET INCLUDING SUCH A METER CARRIER BOARD
(73) ABB Schweiz AG
(72) Roth, Michael

(51) H02B 11/133
H02B 11/127
H02B 11/24
H02B 11/167
(11) EP3518359
(21) EP17852610.9
(47) 26.01.2022
(87) JP2017017570
29.03.2018
(22) 09.05.2017
(54) SWITCHGEAR
(73) Hitachi Industrial Equipment Systems Co., Ltd.
(72) WATANABE Naoya
SAWADA Masashi
HONMA Masahiro
HORII Chihiro
(31) 2016186712
(32) 26.09.2016
(33) Japan

(51) H02G 3/04
(11) EP3748793
(21) EP20177994.9
(47) 26.01.2022
(22) 03.06.2020
(54) CORRUGATED TUBE AND WIRE HARNESS
(73) YAZAKI CORPORATION
(72) KIUCHI, Masaru
(31) 2019106690
(32) 07.06.2019
(33) Japan

(51) H02G 3/04
F16L 3/233
F16L 3/24
H02G 3/32
(11) EP3595107
(21) EP19176415.8
(47) 26.01.2022
(22) 24.05.2019
(54) ELECTRICAL RACEWAY SYSTEM AND ASSOCIATED WIRE BUNDLE CLAMP SYSTEM AND METHOD
(73) The Boeing Company
(72) MOHLMAN, Shawn D
(31) 201816031487
(32) 10.07.2018
(33) United States of America

(51) H02G 15/04
H01R 4/22
H01R 4/30
H01R 4/34
H01R 11/12
(11) EP3407445
(21) EP17020222.0
(47) 26.01.2022
(22) 22.05.2017
(54) CABLE TERMINAL PROTECTION ARRANGEMENT
(73) Volvo Car Corporation
(72) Tomic, Ivan
Gunnarsson, Lars

Salkovic, Edvin

(51) H02H 3/16
G01R 31/08
H02H 1/00
(11) EP3570400
(21) EP18173236.3
(47) 26.01.2022
(22) 18.05.2018
(54) METHOD AND APPARATUS FOR USE IN EARTH-FAULT PROTECTION
(73) ABB Schweiz AG
(72) Wahlroos, Ari
Altonen, Janne

(51) H02H 3/33
H02H 3/50
(11) EP3507878
(21) EP17761927.7
(47) 26.01.2022
(87) IB2017055179
08.03.2018
(22) 29.08.2017
(54) CONTROL CIRCUIT CONFIGURED TO DETERMINE WHEN A DIRECT CURRENT COMPONENT IN AN ALTERNATING CURRENT POWER LINE PASSES A DESIGNATED THRESHOLD
(73) TE Connectivity Corporation
(72) MISHRIKEY, Matthew D.
(31) 201615252303
(32) 31.08.2016
(33) United States of America

(51) H02H 7/085
E05F 15/603
E05F 15/40
H02P 6/16
H02P 31/00
(11) EP3249767
(21) EP17166536.7
(47) 26.01.2022
(22) 13.04.2017
(54) SWITCHING DEVICE FOR SWITCHING AN ELECTRIC MOTOR
(73) Lock Antriebstechnik GmbH
(72) Lock, Frank
Fluhr, Tobias
Niederer, Patrick
(31) 102016108007
(32) 29.04.2016
(33) Germany

(51) H02H 7/20
H02H 3/08
G01R 19/165
B60L 58/10
(11) EP2953226
(21) EP14839069.3
(47) 26.01.2022
(87) KR2014007858
05.03.2015
(22) 25.08.2014
(54) CURRENT MEASURING RELAY DEVICE
(73) LG Energy Solution Ltd.
(72) KWON, Dong Keun
KANG, Ju Hyun
KIM, Younghwan
(31) 20140042768
20130102626
(32) 10.04.2014
28.08.2013
(33) Korea (Republic)
Korea (Republic)

(51) H02H 9/06
H02H 9/04
H02H 9/00
H02H 1/04
(11) EP2901535
(21) EP12795725.6
(47) 26.01.2022
(87) CZ2012000104
06.03.2014
(22) 17.10.2012
(54) OVERVOLTAGE PROTECTION WITH SPARK GAP AND TRIGGERING CIRCUIT
(73) SALTEK s.r.o.
(72) SUCHY, Jaromír
(31) 20120580
(32) 28.08.2012
(33) Czech Republic

(51) H02J 1/02
H02M 1/15
(11) EP3580825
(21) EP17794704.1
(47) 26.01.2022
(87) EP2017077518
16.08.2018
(22) 26.10.2017
(54) ACTIVE FILTER FOR BIPOLAR VOLTAGE SOURCES
(73) AVL Software And Functions GmbH
(72) OLBRICH, Peter
REINDL, Hartwig
ARNDT, Bastian
(31) 102017102608
(32) 09.02.2017
(33) Germany

(51) H02J 3/00
(11) EP2696462
(21) EP13179174.1
(47) 26.01.2022
(22) 02.08.2013
(54) Methods and systems for controlling a power converter
(73) General Electric Company
(72) Larsen, Einar Vaughn
(31) 201213572416
(32) 10.08.2012
(33) United States of America

(51) H02J 3/00
H02J 3/46
(11) EP2602896
(21) EP12195362.4
(47) 26.01.2022
(22) 03.12.2012
(54) Configurable power switching controller
(73) Hamilton Sundstrand Corporation
(72) Bellis, Andrew David
Simper, Norbert J.
Greither, Markus
(31) 201213491863
201161566283 P
(32) 08.06.2012
02.12.2011
(33) United States of America
United States of America

(51) H02J 3/38
(11) EP3286814
(21) EP16720633.3
(47) 26.01.2022
(87) US2016028551
27.10.2016
(22) 21.04.2016
(54) SYSTEMS, METHODS AND APPARATUS FOR IMPROVED GENERATION CONTROL OF MICROGRID ENERGY SYSTEMS
(73) Siemens Aktiengesellschaft
(72) CHINCHALI, Ram P.
PANDE, Shashank
CHEN, Dingguo
(31) 201514823429
201562150888 P
(32) 11.08.2015
22.04.2015
(33) United States of America
United States of America

(51) H02J 3/38
H02J 9/00
B63J 99/00
H02J 3/32
(11) EP3297122
(21) EP15891931.6
(47) 26.01.2022
(87) KR2015005923
17.11.2016
(22) 12.06.2015
(54) SHIP AND POWER MANAGEMENT METHOD THEREOF
(73) Samsung Heavy Industries Co., Ltd.
(72) KANG, Yun Tae
(31) 20150066571
20150066567
(32) 13.05.2015
13.05.2015
(33) Korea (Republic)
Korea (Republic)

(51) H02J 7/00
H01M 10/44
H01M 10/48
H02J 7/04
(11) EP3664247
(21) EP17920525.7
(47) 26.01.2022
(87) JP2017027750
07.02.2019
(22) 31.07.2017
(54) CHARGING TIME COMPUTATION METHOD AND CHARGE CONTROL DEVICE
(73) Nissan Motor Co., Ltd.
(72) ARIZONO, Hidetoshi

(51) H02J 7/00
H02J 7/34
H01M 10/44
(11) EP3311461
(21) EP16729867.8
(47) 26.01.2022
(87) EP2016063289
22.12.2016
(22) 10.06.2016

(54) NOMADIC CHARGING DEVICE AND METHOD FOR MANAGING THE INTERNAL CHARGE OF SAID DEVICE
(73) Commissariat à l'Énergie Atomique et aux Énergies Alternatives
(72) DELAILLE, Benjamin
DELAILLE, Arnaud
TESSARD, Romain
HING, Sothun Eric
(31) 1555463
(32) 16.06.2015
(33) France

(51) H02J 7/00
H02J 50/00
(11) EP3709473
(21) EP18941944.3
(47) 26.01.2022
(87) CN2018122847
25.06.2020
(22) 21.12.2018
(54) CHARGING CONTROL METHOD AND APPARATUS, AND COMPUTER STORAGE MEDIUM
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(72) CHEN, Wei

(51) H02J 9/06
(11) EP3235103
(21) EP15820004.8
(47) 26.01.2022
(87) US2015065664
23.06.2016
(22) 15.12.2015
(54) MODULAR UNINTERRUPTIBLE POWER SUPPLY AND POWER DISTRIBUTION SYSTEM
(73) Eaton Intelligent Power Limited
(72) WINDSOR, David G.
OVERBERG, Thomas Joseph
DAVIS, Scott Jason
COOTE, Stefan Ashley
(31) 201462091876 P
(32) 15.12.2014
(33) United States of America

(51) H02J 9/06
F21S 9/02
F21Y 115/10
(11) EP3759788
(21) EP19706620.2
(47) 26.01.2022
(87) EP2019054381
06.09.2019
(22) 21.02.2019
(54) EMERGENCY LED DRIVER WITH COMBINED TEST SWITCH, STATUS INDICATOR AND DURATION SELECT OPERATION
(73) Tridonic GmbH & Co. KG
(72) MAKWANA, Deepak
SHUKLA, Jagjitpati
(31) 201803578
(32) 28.02.2018
(33) United Kingdom

(51) H02K 1/02
H02K 1/27
H02K 7/18
(11) EP2939328
(21) EP13831875.3
(47) 26.01.2022
(87) IB2013061380
03.07.2014
(22) 27.12.2013
(54) ELECTRIC MACHINE
(73) WINDFIN B.V.
(72) SCUOTTO, Mattia
FOLIE, Georg
(31) MI20122268
(32) 28.12.2012
(33) Italy

(51) H02K 1/14
H02K 15/00
H02K 1/24
H02K 1/02
H02K 1/27
H02K 17/16
(11) EP3063855
(21) EP14790551.7
(47) 26.01.2022
(87) EP2014072392
07.05.2015
(22) 20.10.2014
(54) IMPROVED ELECTRICAL LAMINATED CORE STRUCTURE FOR AN ELECTRIC MOTOR
(73) Bayerische Motoren Werke Aktiengesellschaft
(72) GOETZ, Georg
EBERT, Matthias
(31) 102013221787
(32) 28.10.2013
(33) Germany

(51) H02K 1/27
H02K 1/17
H02K 21/12
H02K 3/46
H02K 21/22
H02K 21/24
H02K 1/14
H02K 1/18
H02K 21/14
(11) EP3120439
(21) EP14879806.9
(47) 26.01.2022
(87) US2014040372
30.07.2015
(22) 30.05.2014
(54) FLUX MACHINE
(73) Clearwater Holdings, Ltd.
(72) KLONTZ, Keith
LI, Haodong
(31) 201414162611
(32) 23.01.2014
(33) United States of America

(51) H02K 3/52
H02K 11/00
H02K 3/28
(11) EP2896116
(21) EP13756617.0
(47) 26.01.2022
(87) FR2013051823
20.03.2014
(22) 29.07.2013
(54) COIL INSULATOR CAPABLE OF RECEIVING A TEMPERATURE SENSOR, AND CORRESPONDING STATOR INTERCONNECTOR AND BEARING FOR TEMPERATURE SENSOR
(73) Valeo Equipements Electriques Moteur
(72) WOLFF, Pawel
KALARY-PABICH, Magdalena
JUGOVIC, Svetislav
SELOSSE, Didier
EL BARAKA, Kadija
CAMBRONNE, Olivier
BADEY, Jean-Philippe
(31) 1258680
(32) 17.09.2012
(33) France

(51) H02K 5/10
B62D 5/04
H02K 5/22
H02K 11/33
(11) EP3736947
(21) EP18897895.1
(47) 26.01.2022
(87) JP2018047743
11.07.2019
(22) 26.12.2018
(54) MOTOR UNIT AND ELECTRIC POWER STEERING DEVICE
(73) NSK LTD.
(72) SHIMIZU, Yasuhiro
TU, Zhipeng
KANEKO, Noboru
(31) 2018000220
(32) 04.01.2018
(33) Japan

(51) H02K 7/00
H02K 7/108
F16D 3/78
F02N 11/04
F02N 15/00
(11) EP2662957
(21) EP12007865.4
(47) 26.01.2022
(22) 22.11.2012
(54) Assembly comprising an internal combustion engine
(73) MAN Truck & Bus SE
(72) Schreiner, Bernd
Geissler, Josef
Vogel, Werner
Patla, Michael
Lampalzer, Markus
(31) 102012003386
(32) 22.02.2012
(33) Germany

(51) H02K 7/04
H02K 1/27
H02K 1/28
H02K 1/02
(11) EP3540919
(21) EP19161487.4
(47) 26.01.2022
(22) 08.03.2019
(54) ROTOR FOR A ROTARY ELECTRIC MACHINE
(73) Magneti Marelli S.p.A.
(72) MAGRI, Marco
STAMATO, Salvatore
LELI, Francesco
(31) 201800003491
(32) 13.03.2018

(33) Italy

(51) H02K 7/12
H02K 7/102
H02K 21/02
B21C 47/00
B21C 47/34
(11) EP3731384
(21) EP20170237.0
(47) 26.01.2022
(22) 17.04.2020
(54) ELECTRIC MOTOR AND METHOD FOR OPERATING THE SAME
(73) SMS Group GmbH
(72) de Kock, Peter
Timmerbeul, Walter
Plate, Frank
(31) 102019205789
(32) 23.04.2019
(33) Germany

(51) H02K 7/14
H02K 21/24
H02K 5/16
H02K 7/00
H02K 7/08
B64D 35/02
B64D 27/24
(11) EP3667874
(21) EP18275183.4
(47) 26.01.2022
(22) 14.12.2018
(54) ELECTRIC PROPULSION SYSTEM
(73) Hamilton Sundstrand Corporation
(72) PAGE, Andrew
SAWATA, Tadashi

(51) H02K 11/33
H02K 9/22
H02K 11/215
(11) EP3611830
(21) EP18809109.4
(47) 26.01.2022
(87) JP2018021188
06.12.2018
(22) 01.06.2018
(54) ELECTRIC DRIVE DEVICE AND ELECTRIC POWER STEERING DEVICE
(73) NSK Ltd.
(72) SUZUKI, Ryoichi
SHIMIZU, Yuri
SUNAGA, Takashi
MORIMOTO, Masakazu
SHIMAKAWA, Shigeru
(31) 2018103621
2018103602
2017109532
2017109531
(32) 30.05.2018
30.05.2018
01.06.2017
01.06.2017
(33) Japan
Japan
Japan
Japan

(51) H02K 15/095
H02K 3/34
H02K 15/10
(11) EP2605385
(21) EP12196687.3
(47) 26.01.2022
(22) 12.12.2012
(54) Method for winding the magnetic coils of a stator and stator
(73) Metabowerke GmbH
(72) Schmohl, Michael
Falter, Norbert
(31) 102012216573
102011088536
(32) 17.09.2012
14.12.2011
(33) Germany
Germany

(51) H02K 15/16
H02K 1/27
H02K 7/04
(11) EP3469695
(21) EP17731416.8
(47) 26.01.2022
(87) US2017036669
21.12.2017
(22) 09.06.2017
(54) RETENTION SLEEVE AND BALANCE STRATEGY FOR A HIGH SPEED PERMANENT MAGNET ROTOR
(73) BorgWarner Inc.
(72) KURLE, Charles J.
KELLY, Allan D.
(31) 201615180509
(32) 13.06.2016
(33) United States of America

(51) H02K 29/03
A61C 1/06
A61C 1/12
H02K 3/47
H02K 15/16
(11) EP3176927
(21) EP15827154.4
(47) 26.01.2022
(87) JP2015003852
04.02.2016
(22) 30.07.2015
(54) ELECTRIC MOTOR AND DENTAL DEVICE
(73) Nakanishi Inc.
(72) NAKAMURA, Akito
(31) 2014156110
(32) 31.07.2014
(33) Japan

(51) H02K 35/02
H02K 1/34
(11) EP3743990
(21) EP19713008.1
(47) 26.01.2022
(87) EP2019057200
03.10.2019
(22) 22.03.2019
(54) AN ELECTROMECHANICAL GENERATOR FOR CONVERTING MECHANICAL VIBRATIONAL ENERGY INTO ELECTRICAL ENERGY
(73) Perpetuum Ltd.
(72) WASENCZUK, Adam
(31) 201804872
(32) 27.03.2018
(33) United Kingdom

(51) H02K 41/02
H02K 11/21
G01D 5/249
G01D 5/347
(11) EP3430713
(21) EP17765982.8
(47) 26.01.2022
(87) IL2017050318
21.09.2017
(22) 13.03.2017
(54) POSITION ENCODER
(73) Servosense (SMC) Ltd.
(72) VILLARET, Yves
ERLICH, Markus
(31) 201662307516 P
(32) 13.03.2016
(33) United States of America

(51) H02M 1/12
(11) EP2466735
(21) EP11193574.8
(47) 26.01.2022
(22) 14.12.2011
(54) Power generation system, power converter system, and methods of converting power
(73) GENERAL ELECTRIC COMPANY
(72) Ritter, Allen
Frame, Scott Charles
Zhu, Huibin
(31) 971810
(32) 17.12.2010
(33) United States of America

(51) H02M 1/36
H02M 1/32
H02M 1/00
(11) EP3584917
(21) EP18771684.0
(47) 26.01.2022
(87) CN2018079740
27.09.2018
(22) 21.03.2018
(54) TWO-STAGE SWITCH POWER SUPPLY
(73) Tridonic GmbH & Co. KG
(72) CHEN, Zhiwen
TANG, Jiangxin
MAO, Qiuxiang
ZHONG, Guoji
(31) 201710169436
(32) 21.03.2017
(33) China

(51) H02M 1/42
(11) EP3806302
(21) EP19202150.9
(47) 26.01.2022
(22) 09.10.2019
(54) POWER FACTOR CORRECTION CIRCUIT
(73) Tridonic GmbH & Co. KG
(72) Auer, Hans
Marte, Patrick

(51) H02M 3/07
(11) EP3537585
(21) EP19158439.0
(47) 26.01.2022
(22) 21.02.2019
(54) SWITCHED-CAPACITOR CONVERTER WITH INTERLEAVED HALF BRIDGES
(73) Infineon Technologies Austria AG
(72) Notsch, Chris Josef
(31) 201815913363

(32) 06.03.2018
(33) United States of America

(51) H02M 3/135
H02M 3/158
H02M 3/155
H02M 1/00
(11) EP3565099
(21) EP17887036.6
(47) 26.01.2022
(87) JP2017006736
05.07.2018
(22) 23.02.2017
(54) POWER SUPPLY DEVICE AND METHOD FOR CONTROLLING POWER SUPPLY DEVICE
(73) Kyosan Electric Mfg. Co., Ltd.
(72) KUNITAMA, Hiroshi
OHMA, Ryosuke
HOSOYAMADA, Yu
YUZURIHARA, Itsuo
(31) 2016254291
(32) 27.12.2016
(33) Japan

(51) H02M 3/156
H02J 7/00
G05F 1/577
H02M 1/00
(11) EP3416273
(21) EP16894940.2
(47) 26.01.2022
(87) CN2016077426
28.09.2017
(22) 25.03.2016
(54) POWER SUPPLY CIRCUIT FOR LOAD, AND TERMINAL
(73) Huawei Technologies Co., Ltd.
(72) ZHONG, Guanghua
ZHANG, Ming
WANG, Yuanguo

(51) H02M 3/157
H02M 1/00
(11) EP3526890
(21) EP17778261.2
(47) 26.01.2022
(87) EP2017074942
19.04.2018
(22) 02.10.2017
(54) CONTROL DEVICE FOR A DC/DC CONVERTER, DC/DC CONVERTER AND METHOD FOR CONTROLLING A DC/DC CONVERTER
(73) Robert Bosch GmbH
(72) ESTEGHLAL, Gholamabas
(31) 102016219742
(32) 11.10.2016
(33) Germany

(51) H02M 7/483
(11) EP2966769
(21) EP14176558.6
(47) 26.01.2022
(22) 10.07.2014
(54) Operation of a modular multi level power converter
(73) Siemens Aktiengesellschaft
(72) Bärnklau, Hans
Gensior, Albrecht
Bernet, Steffen

(51) H02N 1/00
(11) EP3646457
(21) EP18739591.8
(47) 26.01.2022
(87) GB2018051799
03.01.2019
(22) 28.06.2018
(54) ELECTROSTATIC ACTUATOR
(73) The University of Bristol
(72) HELPS, Tim
TAGHAVI, Majid
ROSSITER, Jonathan
(31) 201710400
(32) 29.06.2017
(33) United Kingdom

(51) H02N 2/18
(11) EP3729633
(21) EP18826001.2
(47) 26.01.2022
(87) EP2018085750
27.06.2019
(22) 19.12.2018
(54) SWITCH ASSISTED DIODE-CLAMPED ENERGY HARVESTING SYSTEM FOR VARIABLE CAPACITANCE TRANSDUCERS
(73) Single Buoy Moorings Inc
(72) VAN KESSEL, Rick
(31) 17208623
(32) 19.12.2017
(33) European Patent Office (EPO)

(51) H02P 3/02
H02P 6/00
B25F 5/00
G06F 9/48
G08C 17/02
(11) EP3168009
(21) EP16197290.6
(47) 26.01.2022
(22) 04.11.2016
(54) ELECTRIC WORKING MACHINE AND WORKING MACHINE MANAGEMENT SYSTEM
(73) Makita Corporation
(72) Yamamoto, Hirokatsu
(31) 2015221366
(32) 11.11.2015
(33) Japan

(51) H02P 6/18
H02P 6/15
H02P 25/03
(11) EP3673576
(21) EP18752745.2
(47) 26.01.2022
(87) EP2018071496
28.02.2019
(22) 08.08.2018
(54) METHOD AND APPARATUS FOR OPERATING AN ELECTRONICALLY COMMUTATED ELECTRIC MOTOR
(73) Robert Bosch GmbH
(72) MUELLER, Tankred
(31) 102017214637
(32) 22.08.2017
(33) Germany

(51) H02P 9/00
F03D 17/00
H02K 3/51
H02K 7/18
H02K 11/26
(11) EP3339638
(21) EP16206411.7
(47) 26.01.2022
(22) 22.12.2016
(54) SYSTEMS FOR CRACK DETECTION IN DOUBLY-FED INDUCTION GENERATORS
(73) General Electric Company
(72) GRUBIC, Stefan
SHAH, Manoj Ramprasad
NETI, Prabhakar
ZHANG, Pinjia

(51) H02P 21/00
H02P 6/28
H02P 6/06
H02P 25/024
(11) EP2959574
(21) EP14709737.2
(47) 26.01.2022
(87) GB2014050537
28.08.2014
(22) 21.02.2014
(54) MOTOR CONTROL APPARATUS AND METHOD
(73) BorgWarner Gateshead Limited
(72) SLATER, Howard
HODGSON, David
BARRASS, Peter
(31) 201303280
(32) 25.02.2013
(33) United Kingdom

(51) H02P 21/00
H02P 25/22
H02P 21/22
(11) EP3771088
(21) EP18911114.9
(47) 26.01.2022
(87) JP2018010900
26.09.2019
(22) 19.03.2018
(54) PERMANENT MAGNET SYNCHRONOUS ELECTRIC MOTOR CONTROL DEVICE, ELECTRIC POWER STEERING DEVICE, AND ELECTRIC VEHICLE
(73) Mitsubishi Electric Corporation
(72) TSUCHIMOTO, Yuya
FURUKAWA, Akira
KEZOBO, Isao

(51) H02P 23/14
H02P 31/00
(11) EP3109999
(21) EP16175377.7
(47) 26.01.2022
(22) 21.06.2016
(54) METHOD AND DEVICE FOR DETERMINING A PHYSICAL VARIABLE OF A MULTI-PHASE SYNCHRONOUS MACHINE
(73) B&R Industrial Automation GmbH
(72) Mayrhofer, Andreas
(31) 505532015
(32) 25.06.2015
(33) Austria

(51) H02S 20/32
(11) EP3804122

(21) EP19726018.5
(47) 26.01.2022
(87) EP2019063764
05.12.2019
(22) 28.05.2019
(54) METHOD TO REDUCE SHADING IN A PHOTOVOLTAIC PLANT
(73) Soltec Energías Renovables, SL
(72) TERUEL HERNÁNDEZ, Jose Alfonso
GUERRERO PÉREZ, Javier
MUÑOZ BENAVENTE, Irene
(31) 18382368
(32) 28.05.2018
(33) European Patent Office (EPO)

(51) H03G 11/00
H03G 11/02
H02H 9/04
(11) EP2728749
(21) EP13191537.3
(47) 26.01.2022
(22) 05.11.2013
(54) Limiter for broadband high frequency signals
(73) Rohde & Schwarz GmbH & Co. KG
(72) Forster, Josef
Ahlers, Roland
(31) 102013205805
102012220133
(32) 02.04.2013
06.11.2012
(33) Germany
Germany

(51) H03H 7/46
G01G 3/16
G01N 5/02
G01N 9/00
G01N 29/02
G01N 29/34
(11) EP3398252
(21) EP16823264.3
(47) 26.01.2022
(87) EP2016081853
06.07.2017
(22) 20.12.2016
(54) AMPLIFICATION METHOD USING A MECHANICAL RESONATOR
(73) Centre National de la Recherche Scientifique
(72) DEFOORT, Martial
COLLIN, Eddy
ARMOUR, Andrew
(31) 1563388
(32) 28.12.2015
(33) France

(51) H03K 5/1536
H03K 5/15
H02M 1/00
(11) EP3616321
(21) EP18792274.5
(47) 26.01.2022
(87) US2018029609
01.11.2018
(22) 26.04.2018
(54) CONTROL MODULE AND METHOD FOR HIGH-RESOLUTION FET VDS ZERO-VOLT-CROSSING TIMING DETECTION
(73) Texas Instruments Incorporated
(72) ZHANG, Gangqiang
DEVARAJAN, Vijayalakshmi
PEREIRA, Angelo William
XU, Jingwei
(31) 201715498385
(32) 26.04.2017
(33) United States of America

(51) H03K 7/08
H03F 3/217
H03F 3/387
H03K 9/08
(11) EP3178165
(21) EP15734563.8
(47) 26.01.2022
(87) DK2015050194
11.02.2016
(22) 01.07.2015
(54) SYSTEM AND METHOD FOR MODULATION AND DEMODULATION
(73) PR Electronics A/S
(72) LINDEMANN, Stig Alnøe
MADSEN, Dan Vinge
(31) 201470475
(32) 08.08.2014
(33) Denmark

(51) H03L 7/085
H03L 7/081
H03K 5/15
(11) EP3695511
(21) EP18795848.3
(47) 26.01.2022
(87) US2018054034
18.04.2019
(22) 02.10.2018
(54) DUAL-PATH DIGITAL-TO-TIME CONVERTER
(73) Xilinx, Inc.
(72) ERDMANN, Christophe
VERBRUGGEN, Bob, W.
XIMENES, Augusto, R.
(31) 201715784022
(32) 13.10.2017
(33) United States of America

(51) H03L 7/085
H03L 7/093
H03L 7/08
(11) EP3701631
(21) EP17822055.4
(47) 26.01.2022
(87) SG2017050627
27.06.2019
(22) 19.12.2017
(54) DIGITAL-TO-TIME CONVERTER (DTC) ASSISTED ALL DIGITAL PHASE LOCKED LOOP (ADPLL) CIRCUIT
(73) Huawei International Pte. Ltd.
(72) YUAN, Chao
CHEN, Xuesong
YEO, Theng Tee
SUPENG, Liu
YU, Rui

(51) H03M 7/30
(11) EP3633857
(21) EP18306304.9
(47) 26.01.2022
(22) 03.10.2018
(54) METHODS AND DEVICES FOR ON-THE-FLY CODER MAPPING UPDATES IN POINT CLOUD CODING
(73) BlackBerry Limited
(72) LASSERRE, Sébastien
FLYNN, David

(51) H03M 13/13
H03M 13/00
H03M 13/15
H04B 1/04
H04L 1/00
(11) EP3273602
(21) EP17181980.8
(47) 26.01.2022
(22) 18.07.2017
(54) LOW COMPLEXITY RATE MATCHING DESIGN FOR POLAR CODES
(73) MediaTek Inc.
(72) CHIU, Mao-Ching
WU, Wei-De
TAI, Chia-Wei
(31) 201762526422 P
201762518640 P
201762455054 P
201662363921 P
(32) 29.06.2017
13.06.2017
06.02.2017
19.07.2016
(33) United States of America
United States of America
United States of America
United States of America

(51) H04B 1/00
(11) EP3661064
(21) EP18838020.8
(47) 26.01.2022
(87) CN2018089954
31.01.2019
(22) 05.06.2018
(54) RADIO FREQUENCY CIRCUIT AND ELECTRONIC DEVICE
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(72) CONG, Ming
FENG, Bin
(31) 201710614395
(32) 25.07.2017
(33) China

(51) H04B 1/04
H04B 1/18
H04B 1/48
(11) EP3772184
(21) EP19189615.8
(47) 26.01.2022
(22) 01.08.2019
(54) A TUNABLE MATCHING NETWORK FOR A TRANSCEIVER
(73) Stichting IMEC Nederland
RENESAS ELECTRONICS CORP
(72) XiaoYan, Wang
Kenichi, Shibata
Hisayasu, Sato
Yao-Hong, Liu
Minyoung, Song

(51) H04B 1/10
(11) EP3707867
(21) EP18799738.2

(47) 26.01.2022
(87) EP2018080309
09.05.2019
(22) 06.11.2018
(54) METHOD AND DEVICE FOR DETERMINING THE MODULATION TYPE OF A SIGNAL, AND CONFIGURATION OF AN AMPLIFICATION UNIT
(73) Molex CVS Dabendorf GmbH
(72) WEIGELT, Marcus
KAUTGE, Helmut
LEHMANN, Lars
(31) 102017219691
(32) 06.11.2017
(33) Germany

(51) H04B 1/713
(11) EP3808002
(21) EP19730645.9
(47) 26.01.2022
(87) US2019034091
19.12.2019
(22) 28.05.2019
(54) CHANNEL HOPPING SEQUENCE GENERATION WITH VARIABLE CHANNEL WIDTH
(73) Landis+Gyr Innovations, Inc.
(72) HOLCOMBE, Michael Sean
KARLGAARD, Matthew Donald
KHARANGATE, Govind
MATTHEWS, Justin Clifford
(31) 201816009930
(32) 15.06.2018
(33) United States of America

(51) H04B 5/00
(11) EP3297176
(21) EP15892902.6
(47) 26.01.2022
(87) CN2015079847
01.12.2016
(22) 26.05.2015
(54) METHOD, DEVICE, AND SYSTEM FOR ADJUSTING PACKET LENGTH IN NEAR FIELD COMMUNICATION (NFC)
(73) Huawei Technologies Co., Ltd.
(72) ZHAO, Xiaona
CHANG, Xinmiao

(51) H04B 5/00
H04B 5/02
H03G 3/30
(11) EP3672092
(21) EP18306752.9
(47) 26.01.2022
(22) 19.12.2018
(54) METHOD AND SYSTEM FOR GAIN CONTROL IN A COMMUNICATIONS DEVICE
(73) NXP B.V.
(72) MUEHLMANN, Ulrich Andreas
KRANABENTER, Helmut
MENDEL, Stefan
CHARPENTIER, Steve

(51) H04B 7/04
H04B 7/06
H04B 7/0456
(11) EP3761517
(21) EP20157555.2
(47) 26.01.2022
(22) 12.04.2018
(54) METHOD FOR INDICATING AND DETERMINING PRECODING VECTOR, AND DEVICE
(73) Huawei Technologies Co., Ltd.
(72) HAN, Wei
SHANG, Peng
JIN, Huangping
JIANG, Peng
(31) 201710284175
(32) 26.04.2017
(33) China

(51) H04B 7/0413
H04B 7/06
(11) EP3442131
(21) EP17190539.1
(47) 26.01.2022
(22) 12.09.2017
(54) MIMO SIGNAL GENERATOR WITH FREQUENCY MULTIPLEXING
(73) Rohde & Schwarz GmbH & Co. KG
(72) Rowell, Corbett
Abadie, Vincent
Kehlenbach, Werner
(31) 201715675087
(32) 11.08.2017
(33) United States of America

(51) H04B 7/0452
H01Q 1/24
H01Q 21/06
H04B 7/06
H01Q 3/40
H01Q 21/28
(11) EP3799325
(21) EP19382830.8
(47) 26.01.2022
(22) 26.09.2019
(54) METHOD AND DEVICE FOR GENERATING BROADCAST BEAMS IN MASSIVE MIMO SYSTEMS
(73) Telefonica, S.A.
(72) MARTÍ MOLINA, Mónica
LORCA HERNANDO, Javier
SERNA SANTIAGO, Elena

(51) H04B 7/06
H04B 7/08
H04W 16/28
H04W 36/06
H04W 76/19
H04W 36/00
H04W 36/30
(11) EP3571781
(21) EP17832422.4
(47) 26.01.2022
(87) US2017067068
26.07.2018
(22) 18.12.2017
(54) BEAM SELECTION AND RADIO LINK FAILURE DURING BEAM RECOVERY
(73) QUALCOMM Incorporated
(72) LUO, Tao
NAGARAJA, Sumeeth
(31) 201715707626
201762465112 P
201762448369 P
(32) 18.09.2017
28.02.2017
19.01.2017
(33) United States of America
United States of America
United States of America

(51) H04B 7/06
H04L 5/00
H04J 13/00
H04L 25/02
(11) EP3840247
(21) EP20209687.1
(47) 26.01.2022
(22) 13.04.2017
(54) BEAM TRAINING SEQUENCE DESIGN METHOD AND APPARATUS
(73) HUAWEI TECHNOLOGIES CO., LTD.
(72) CHEN, Qingchun
YUAN, Di
YAN, Min
(31) 201610512537
(32) 30.06.2016
(33) China

(51) H04B 7/06
H04W 72/04
H04L 5/00
H04L 5/14
H04W 16/28
H04W 72/00
H04W 74/08
H04W 74/00
(11) EP3639399
(21) EP18735770.2
(47) 26.01.2022
(87) US2018036763
20.12.2018
(22) 08.06.2018
(54) SYSTEM AND METHOD FOR TRANSMITTING BEAM FAILURE RECOVERY REQUEST
(73) Qualcomm Incorporated
(72) CEZANNE, Juergen
LI, Junyi
ISLAM, Muhammad Nazmul
SUBRAMANIAN, Sundar
(31) 201816002876
201762567062 P
201762519769 P
(32) 07.06.2018
02.10.2017
14.06.2017
(33) United States of America
United States of America
United States of America

(51) H04B 7/145
(11) EP3701640
(21) EP18789124.7
(47) 26.01.2022
(87) EP2018078375
02.05.2019
(22) 17.10.2018
(54) REFLECTING APPARATUS FOR COMMUNICATION BETWEEN TWO VEHICLES
(73) Continental Automotive GmbH
(72) SMITS, Thomas
(31) 102017219397
(32) 27.10.2017
(33) Germany

(51) H04B 7/185
(11) EP3348004

(21) EP16766052.1
(47) 26.01.2022
(87) GB2016052780
16.03.2017
(22) 08.09.2016
(54) PROCESS AND SYSTEM FOR COMMUNICATING WITH USER ANTENNA PHASED ARRAYS
(73) Stratospheric Platforms Limited
(72) DAVIDSON, Peter
GRACE, David
FAULKNER, Andrew
ALEXANDER, Paul
(31) 201516012
(32) 10.09.2015
(33) United Kingdom

(51) H04B 7/185
H04B 17/13
H04B 7/06
(11) EP3427419
(21) EP17764223.8
(47) 26.01.2022
(87) US2017021891
14.09.2017
(22) 10.03.2017
(54) IMPROVING POWER EFFICIENCY IN BEAMFORMING RF SYSTEMS
(73) Seakr Engineering, Inc.
(72) BUEHLER, Erik
(31) 201662307150 P
(32) 11.03.2016
(33) United States of America

(51) H04B 7/185
H04W 56/00
H04L 29/08
(11) EP3419192
(21) EP18189553.3
(47) 26.01.2022
(22) 10.11.2014
(54) METHOD FOR DISTRIBUTIVELY DELIVERING TWO PORTIONS OF A CONTENT ON TWO UPLINKS OF DIFFERENT FREQUENCIES TO A MOBILE COMPUTING DEVICE TRANSPORTED BY A VEHICLE IN-FLIGHT
(73) Gogo Business Aviation LLC
(72) WALSH, Patrick J.
LOGANATHAN, Rukmani
LAUER, Bryan Adrian
SASI, Sajit
(31) 201414225050
201361901644 P
(32) 25.03.2014
08.11.2013
(33) United States of America
United States of America

(51) H04B 10/2537
H04B 10/2575
(11) EP3433950
(21) EP17709301.0
(47) 26.01.2022
(87) US2017019262
28.09.2017
(22) 24.02.2017
(54) IMPROVED STIMULATED BRILLOUIN SCATTERING (SBS) SUPPRESSION IN AN OPTICAL COMMUNICATIONS SYSTEM
(73) ARRIS Enterprises LLC
(72) WANG, Jun
MUTALIK, Venkatesh G.
SCHEMMANN, Marcel F.
CHASMAWALA, Shamsuddin H.
(31) 201615075512
(32) 21.03.2016
(33) United States of America

(51) H04B 10/2569
H04B 10/2507
H04J 14/00
H04B 10/61
(11) EP3531586
(21) EP16919620.1
(47) 26.01.2022
(87) CN2016104153
03.05.2018
(22) 31.10.2016
(54) RECEIVER AND DATA RECEPTION METHOD
(73) Huawei Technologies Co., Ltd.
(72) HUANG, Yuanda
WANG, Xie
LI, Liangchuan

(51) H04B 10/2575
H04J 14/08
(11) EP3468070
(21) EP17814464.8
(47) 26.01.2022
(87) CN2017078813
28.12.2017
(22) 30.03.2017
(54) METHOD AND APPARATUS FOR FRAME DATA TRANSMISSION BETWEEN NEAR-END DEVICE AND REMOTE DEVICE
(73) Datang Mobile Communications Equipment Co., Ltd.
(72) GENG, Guijie
ZHANG, Xiyuan
ZHANG, Zichen
(31) 201610455045
(32) 21.06.2016
(33) China

(51) H04B 10/40
H05K 7/20
G02B 6/42
G02B 6/38
H01R 13/66
(11) EP3272035
(21) EP16713221.6
(47) 26.01.2022
(87) US2016022590
22.09.2016
(22) 16.03.2016
(54) THERMAL CONDUCTION SYSTEM
(73) Cisco Technology, Inc.
(72) CHAN, Gary King
CURTIS, George Edward
THARP, Keith Frank
(31) 201514661375
(32) 18.03.2015
(33) United States of America

(51) H04B 10/54
H04B 10/588
H04B 10/69
(11) EP3639412
(21) EP17733444.8
(47) 26.01.2022
(87) EP2017065767
03.01.2019
(22) 27.06.2017
(54) PULSE AMPLITUDE MODULATION LEVEL OPTIMIZATION AND EQUALIZATION IN OPTICAL SYSTEMS
(73) Huawei Technologies Co., Ltd.
(72) STOJANOVIC, Nebojsa

(51) H04B 11/00
(11) EP3729691
(21) EP18836320.4
(47) 26.01.2022
(87) US2018066362
27.06.2019
(22) 19.12.2018
(54) PHASE SHIFT KEYED SIGNALING TONE
(73) LISNR, INC.
(72) KNAUER, William
PRINCE, Daniel Paul
FARRAR, Rebekah, L
(31) 201715847205
(32) 19.12.2017
(33) United States of America

(51) H04B 17/30
H04B 17/27
(11) EP3696998
(21) EP18890864.4
(47) 26.01.2022
(87) KR2018014118
27.06.2019
(22) 16.11.2018
(54) METHOD AND APPARATUS FOR COMMUNICATION ENVIRONMENT ANALYSIS AND NETWORK DESIGN CONSIDERING RADIO WAVE INCOMING UNIT OF STRUCTURE
(73) Samsung Electronics Co., Ltd.
(72) CHO, Min Sung
PARK, Sungbum
LEE, Soon Young
(31) 20170174284
(32) 18.12.2017
(33) Korea (Republic)

(51) H04J 11/00
H04B 7/26
H04W 56/00
H04L 5/00
H04L 27/26
(11) EP2715959
(21) EP12793221.8
(47) 26.01.2022
(87) KR2012004351
06.12.2012
(22) 01.06.2012
(54) METHODS AND APPARATUS TO TRANSMIT AND RECEIVE SYNCHRONIZATION SIGNAL AND SYSTEM INFORMATION IN A WIRELESS COMMUNICATION SYSTEM
(73) Samsung Electronics Co., Ltd.
(72) KHAN, Farooq
PI, Zhouyue
LI, Ying
(31) 201213482612

201161492262 P
(32) 29.05.2012
01.06.2011
(33) United States of America
United States of America

(51) H04J 99/00
H04B 7/04
H04W 16/28
H04W 24/10
H04W 72/12
H04B 7/06
H04B 7/02
H04B 17/00
H04B 7/024
H04B 7/0452
H04L 1/00
H04J 11/00
H04W 52/24
H04W 52/26
H04W 72/04
H04W 88/02
H04W 88/08
H04B 17/318
(11) EP3416317
(21) EP18185099.1
(47) 26.01.2022
(22) 27.01.2012
(54) TERMINAL APPARATUS, FEEDBACK CONTROL METHOD, BASE STATION, PAIRING CONTROL METHOD, PROGRAM, AND WIRELESS COMMUNICATION SYSTEM
(73) Sony Group Corporation
(72) Takano, Hiroaki
(31) 2011027655
(32) 10.02.2011
(33) Japan

(51) H04L 1/00
H04L 5/00
H04B 7/06
(11) EP3531596
(21) EP17889982.9
(47) 26.01.2022
(87) CN2017107137
12.07.2018
(22) 20.10.2017
(54) INFORMATION INDICATION METHOD, NETWORK DEVICE, AND TERMINAL DEVICE
(73) Huawei Technologies Co., Ltd.
(72) TANG, Xiaoyong
WANG, Xiaona
(31) 201710184932
201710010696
(32) 24.03.2017
06.01.2017
(33) China
China

(51) H04L 1/06
H04L 27/26
(11) EP3742640
(21) EP18907379.4
(47) 26.01.2022
(87) JP2018006026
29.08.2019
(22) 20.02.2018
(54) TRANSMITTER, CONTROL CIRCUIT, RECORDING MEDIUM, AND SUBCARRIER MAPPING METHOD
(73) Mitsubishi Electric Corporation
(72) MASUDA, Shinji

(51) H04L 1/16
H04L 1/18
(11) EP3472958
(21) EP17730086.0
(47) 26.01.2022
(87) EP2017063527
21.12.2017
(22) 02.06.2017
(54) METHOD FOR TRANSMISSION OF DATA PACKETS IN A CELLULAR NETWORK
(73) THALES DIS AIS Deutschland GmbH
(72) BREUER, Volker
WEHMEIER, Lars
(31) 16175129
(32) 17.06.2016
(33) European Patent Office (EPO)

(51) H04L 1/16
H04W 72/04
H04L 1/18
H04L 5/00
(11) EP3609102
(21) EP17908217.7
(47) 26.01.2022
(87) CN2017082988
08.11.2018
(22) 04.05.2017
(54) INFORMATION TRANSMISSION CONTROL METHOD, TERMINAL DEVICE AND NETWORK DEVICE
(73) Huawei Technologies Co., Ltd.
(72) MA, Sha
LI, Chaojun
CHENG, Yan
SHAO, Jiafeng

(51) H04L 1/18
(11) EP3584977
(21) EP17897527.2
(47) 26.01.2022
(87) CN2017074447
30.08.2018
(22) 22.02.2017
(54) METHOD AND DEVICE FOR INFORMATION TRANSMISSION
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(72) LIN, Yanan

(51) H04L 1/18
(11) EP3574599
(21) EP18702261.1
(47) 26.01.2022
(87) EP2018052103
02.08.2018
(22) 29.01.2018
(54) SUPPORTING MULTIPLE HYBRID AUTOMATIC REPEAT REQUEST PROCESSES
(73) Telefonaktiebolaget LM Ericsson (Publ)
(72) HÖGLUND, Andreas
LIU, Yuhang
WITTBERG, Mikael
OHLSSON, Oscar
RATHONYI, Béla
LIBERG, Olof
(31) 201762451544 P
(32) 27.01.2017
(33) United States of America

(51) H04L 1/18
H04L 1/00
H04L 1/16
H04L 5/00
H04W 28/02
(11) EP2807778
(21) EP13740554.4
(47) 26.01.2022
(87) KR2013000660
01.08.2013
(22) 28.01.2013
(54) METHOD AND APPARATUS FOR SCHEDULING COMMUNICATION FOR LOW CAPABILITY DEVICES
(73) Samsung Electronics Co., Ltd.
(72) JI, Hyoung-Ju
PAPASAKELLARIOU, Aris
KIM, Young-Bum
(31) 201261590991 P
(32) 26.01.2012
(33) United States of America

(51) H04L 1/18
H04L 1/16
(11) EP3484081
(21) EP17823683.2
(47) 26.01.2022
(87) CN2017092248
11.01.2018
(22) 07.07.2017
(54) DATA RETRANSMISSION METHOD AND DEVICE
(73) Datang Mobile Communications Equipment Co., Ltd.
(72) LIU, Jiamin
PIERRE, Bertrand
ZHAO, Yali
XU, Fangli
(31) 201610539425
(32) 08.07.2016
(33) China

(51) H04L 1/18
H04L 27/32
H04L 27/26
H03M 13/25
(11) EP3172853
(21) EP15831431.0
(47) 26.01.2022
(87) CN2015086977
18.02.2016
(22) 14.08.2015
(54) SYSTEM AND METHOD FOR GENERATING CODEBOOKS WITH SMALL PROJECTIONS PER COMPLEX DIMENSION AND UTILIZATION THEREOF
(73) Huawei Technologies Co., Ltd.
(72) BAYESTEH, Alireza
BALIGH, Mohammadhadi
NIKOPOUR, Hosein
TAHERZADEH BOROUJENI, Mahmoud
(31) 201514825886
201462038044 P
(32) 13.08.2015
15.08.2014

(33) United States of America
United States of America

(51) H04L 1/18
H04W 28/02
H04W 52/36
H04W 72/04
(11) EP3695683
(21) EP18866826.3
(47) 26.01.2022
(87) SE2018051042
18.04.2019
(22) 11.10.2018
(54) METHODS AND APPARATUS FOR CONTROL INFORMATION TRIGGERING IN WIRELESS NETWORKS
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) BERGSTRÖM, Mattias
BELLESCHI, Marco
(31) 201762571522 P
(32) 12.10.2017
(33) United States of America

(51) H04L 5/00
(11) EP3139533
(21) EP16195600.8
(47) 26.01.2022
(22) 20.06.2012
(54) METHOD AND APPARATUS FOR TRANSMIT TIMING ADJUSTMENT
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) Kazmi, Muhammad
Bergström, Mattias
(31) 201261595856 P
(32) 07.02.2012
(33) United States of America

(51) H04L 5/00
(11) EP3539250
(21) EP17804387.3
(47) 26.01.2022
(87) US2017060902
17.05.2018
(22) 09.11.2017
(54) TECHNIQUES AND APPARATUSES FOR CONFIGURING A COMMON UPLINK PORTION IN NEW RADIO
(73) QUALCOMM Incorporated
(72) ZENG, Wei
CHEN, Wanshi
HUANG, Yi
WANG, Renqiu
JI, Tingfang
XU, Hao
(31) 201715806814
201662420390 P
(32) 08.11.2017
10.11.2016
(33) United States of America
United States of America

(51) H04L 5/00
(11) EP3635905
(21) EP18737748.6
(47) 26.01.2022
(87) US2018036957
13.12.2018
(22) 11.06.2018
(54) CONCURRENT TRANSMISSION OF ACKNOWLEDGMENT AND SCHEDULING REQUEST INFORMATION ON A CONTROL CHANNEL
(73) Apple Inc.
(72) CHATTERJEE, Debdeep
KWON, Hwan-Joon
XIONG, Gang
HE, Hong
CHO, Joonyoung
(31) 201762520851 P
201762517803 P
(32) 16.06.2017
09.06.2017
(33) United States of America
United States of America

(51) H04L 5/00
(11) EP3641250
(21) EP18816690.4
(47) 26.01.2022
(87) CN2018091188
20.12.2018
(22) 14.06.2018
(54) REFERENCE SIGNAL TRANSMISSION METHOD AND TRANSMISSION APPARATUS
(73) Huawei Technologies Co. Ltd.
(72) XU, Minghui
ZHANG, Xi
XIAO, Weimin
(31) 201710458494
(32) 16.06.2017
(33) China

(51) H04L 5/00
(11) EP3692668
(21) EP18792509.4
(47) 26.01.2022
(87) IB2018057642
11.04.2019
(22) 02.10.2018
(54) SIGNALING FOR MU INTERFERENCE MEASUREMENT WITH NZP CSI-RS
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) MURUGANATHAN, Siva
FAXÉR, Sebastian
GAO, Shiwei
(31) 201762567015 P
(32) 02.10.2017
(33) United States of America

(51) H04L 5/00
H04B 7/00
(11) EP3338393
(21) EP16750299.6
(47) 26.01.2022
(87) US2016042797
23.02.2017
(22) 18.07.2016
(54) RECEPTION OF MULTIPLE UPLINK CONTROL MESSAGES AT A SAME TIME SLOT
(73) Qualcomm Incorporated
(72) SUBRAMANIAN, Sundar
ISLAM, Muhammad Nazmul
CEZANNE, Juergen
LI, Junyi
RYU, Jung Ho
SAMPATH, Ashwin
(31) 201514964101
201562205982 P
(32) 09.12.2015
17.08.2015
(33) United States of America
United States of America

(51) H04L 5/00
H04B 7/26
H04W 72/04
(11) EP3776993
(21) EP19721427.3
(47) 26.01.2022
(87) US2019025554
10.10.2019
(22) 03.04.2019
(54) TIMING PARAMETER MANAGEMENT FOR BANDWIDTH PART SWITCHING
(73) QUALCOMM Incorporated
(72) SORIAGA, Joseph Binamira
GOROKHOV, Alexei Yurievitch
LUO, Tao
JI, Tingfang
ANG, Peter Pui Lok
GAAL, Peter
LEE, Heechoon
(31) 201916373512
201862653510 P
(32) 02.04.2019
05.04.2018
(33) United States of America
United States of America

(51) H04L 5/00
H04L 1/00
H04W 72/04
(11) EP3618336
(21) EP18791012.0
(47) 26.01.2022
(87) KR2018004717
01.11.2018
(22) 24.04.2018
(54) METHOD FOR RECEIVING PHASE TRACKING REFERENCE SIGNAL BY TERMINAL IN WIRELESS COMMUNICATION SYSTEM
(73) LG Electronics Inc.
(72) KIM, Kyuseok
KIM, Kijun
KANG, Jiwon
LEE, Kilbom
(31) 201762542340 P
201762489431 P
(32) 08.08.2017
24.04.2017
(33) United States of America
United States of America

(51) H04L 5/00
H04L 1/18
(11) EP3400670
(21) EP17701035.2
(47) 26.01.2022
(87) EP2017050073
13.07.2017
(22) 03.01.2017
(54) METHOD AND APPARATUS FOR ALLOCATING ACKNOWLEDGEMENT RESOURCES
(73) Nokia Solutions and Networks Oy
(72) HOOLI, Kari Juhani
TIIROLA, Esa Tapani
LUNTTILA, Timo Erkki
(31) PCT/EP2016/050188

(32) 07.01.2016
(33) World Intellectual Property Office (WIPO)

(51) H04L 5/00
H04L 5/14
H04W 74/08
H04L 27/26
H04W 84/12
(11) EP3017614
(21) EP14870891.0
(47) 26.01.2022
(87) US2014070543
25.06.2015
(22) 16.12.2014
(54) SYSTEM AND METHOD FOR WLAN OFDMA DESIGN OF UPLINK AND DOWNLINK TRANSMISSIONS
(73) Huawei Technologies Co., Ltd.
(72) SUH, Jung Hoon
ABOUL-MAGD, Osama
AU, Kwok Shum
(31) 201414340058
201361917791 P
(32) 24.07.2014
18.12.2013
(33) United States of America
United States of America

(51) H04L 5/00
H04L 27/26
(11) EP3672136
(21) EP18853374.9
(47) 26.01.2022
(87) CN2018104921
14.03.2019
(22) 11.09.2018
(54) METHOD AND APPARATUS FOR GENERATING AND RECEIVING PILOT SIGNAL
(73) Huawei Technologies Co., Ltd.
(72) CHEN, Yan
BI, Xiaoyan
ZHANG, Lei
WANG, Lei
XU, Xiuqiang
(31) 201711149096
201710814504
(32) 17.11.2017
11.09.2017
(33) China
China

(51) H04L 5/00
H04L 27/26
H04W 52/02
H04W 72/00
(11) EP3557828
(21) EP17890688.9
(47) 26.01.2022
(87) CN2017095246
12.07.2018
(22) 31.07.2017
(54) SWITCHING METHOD, BASE STATION AND TERMINAL
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(72) CHEN, Wenhong
ZHANG, Zhi
YANG, Ning
(31) PCT/CN2017/070481
(32) 06.01.2017
(33) World Intellectual Property Office (WIPO)

(51) H04L 5/00
H04L 27/34
H04L 27/18
H04L 27/26
(11) EP3800821
(21) EP20192807.4
(47) 26.01.2022
(22) 13.06.2017
(54) MULTICHANNEL-BASED SIGNAL TRANSMISSION METHOD AND APPARATUS
(73) HUAWEI TECHNOLOGIES CO., LTD.
(72) WU, Tao
CHEN, Teyan
(31) 201611173792
201611066050
201610835470
201610563156
(32) 16.12.2016
28.11.2016
20.09.2016
15.07.2016
(33) China
China
China
China

(51) H04L 5/00
H04L 27/34
H04L 27/18
H04L 27/26
(11) EP3790215
(21) EP20188714.8
(47) 26.01.2022
(22) 13.06.2017
(54) MULTICHANNEL-BASED SIGNAL TRANSMISSION METHOD AND APPARATUS
(73) HUAWEI TECHNOLOGIES CO., LTD.
(72) CHEN, Teyan
WU, Tao
(31) 201611173792
201611066050
201610835470
201610563156
(32) 16.12.2016
28.11.2016
20.09.2016
15.07.2016
(33) China
China
China
China

(51) H04L 5/00
H04W 8/00
H04W 76/14
H04W 4/08
H04W 72/02
(11) EP3185460
(21) EP16196799.7
(47) 26.01.2022
(22) 02.11.2016
(54) METHOD AND DEVICE FOR WIRELESS CONNECTION ESTABLISHMENT
(73) Xiaomi Inc.
(72) RU, Yi
LIANG, Xin
WU, Guizhou
(31) 201510991861
(32) 24.12.2015
(33) China

(51) H04L 5/00
H04W 72/04
(11) EP3691168
(21) EP18880158.3
(47) 26.01.2022
(87) KR2018014649
31.05.2019
(22) 26.11.2018
(54) METHOD FOR TRANSMITTING AND RECEIVING SRS AND COMMUNICATION DEVICE THEREFOR
(73) LG Electronics Inc.
(72) LEE, Kilbom
KIM, Kyuseok
KANG, Jiwon
CHOI, Kukheon
(31) 201762590377 P
(32) 24.11.2017
(33) United States of America

(51) H04L 5/00
H04W 72/04
H04L 1/00
H04W 8/24
(11) EP3618537
(21) EP18792188.7
(47) 26.01.2022
(87) CN2018085093
01.11.2018
(22) 28.04.2018
(54) MESSAGE TRANSMISSION METHOD AND APPARATUS, TERMINAL DEVICE AND BASE STATION
(73) Huawei Technologies Co., Ltd.
(72) LI, Chao
LIU, Zhe
SHI, Jie
ZHANG, Xingwei
(31) 201710292759
(32) 28.04.2017
(33) China

(51) H04L 5/00
H04W 72/04
H04L 1/08
(11) EP3285527
(21) EP15880715.6
(47) 26.01.2022
(87) CN2015072209
11.08.2016
(22) 04.02.2015
(54) METHODS AND DEVICES FOR REPORTING CHANNEL STATE
(73) Huawei Technologies Co., Ltd.
(72) ZENG, Qinghai
LI, Yuanjie
HUANG, Qufang

(51) H04L 5/00
H04W 72/12
(11) EP3634060
(21) EP18860694.1
(47) 26.01.2022
(87) CN2018108288
04.04.2019
(22) 28.09.2018

(54) INFORMATION TRANSMISSION METHOD AND DEVICE
(73) Huawei Technologies Co., Ltd.
(72) SHAO, Jiafeng
LI, Shengyu
LYU, Yongxia
HU, Dan
MA, Ruixiang
(31) 201710922917
(32) 30.09.2017
(33) China

(51) H04L 5/00
H04W 72/12
H04L 1/00
H04L 1/18
H04W 76/27
H04L 27/26
H04L 27/00
(11) EP3509376
(21) EP16917201.2
(47) 26.01.2022
(87) CN2016100856
05.04.2018
(22) 29.09.2016
(54) REFERENCE SYMBOL INDICATION METHOD, DEVICE, AND SYSTEM
(73) Huawei Technologies Co., Ltd.
(72) ZHANG, Ruiqi
LIU, Jianqin

(51) H04L 5/26
H04L 27/26
(11) EP3172857
(21) EP15832359.2
(47) 26.01.2022
(87) CN2015086784
18.02.2016
(22) 12.08.2015
(54) SYSTEM AND METHOD FOR GENERATING WAVEFORMS AND UTILIZATION THEREOF
(73) Huawei Technologies Co., Ltd.
(72) MA, Jianglei
JIA, Ming
TONG, Wen
ZHU, Peiying
(31) 201514822492
201462038070 P
(32) 10.08.2015
15.08.2014
(33) United States of America
United States of America

(51) H04L 7/00
(11) EP3506546
(21) EP18215811.3
(47) 26.01.2022
(22) 22.12.2018
(54) ADAPTIVE SYNCHRONIZER FOR A DEMODULATION CHAIN
(73) Avantix
(72) COURTAT, Thomas
(31) 1701419
(32) 29.12.2017
(33) France

(51) H04L 9/06
H04L 9/32
G09C 1/00
G06F 21/64
G06F 21/78
(11) EP3832947
(21) EP20209560.0
(47) 26.01.2022
(22) 24.11.2020
(54) METHOD FOR EXECUTING A COMPUTER PROGRAM BY AN ELECTRONIC APPARATUS
(73) Commissariat à l'Energie Atomique et aux Energies Alternatives
(72) SAVRY, Olivier
HISCOCK, Thomas
(31) 1913764
(32) 04.12.2019
(33) France

(51) H04L 9/08
(11) EP3709563
(21) EP18849475.1
(47) 26.01.2022
(87) ES2018070722
16.05.2019
(22) 08.11.2018
(54) SECURE KEY AGREEMENT WITH UNTRUSTED PARTIES
(73) Universidade de Vigo
(72) CURTY ALONSO, Marcos
HOI-KWONG, Lo
(31) 201700755
(32) 08.11.2017
(33) Spain

(51) H04L 9/32
(11) EP3747154
(21) EP19709224.0
(47) 26.01.2022
(87) US2019018504
19.09.2019
(22) 19.02.2019
(54) SYSTEM FOR VALIDATING AND APPENDING INCIDENT-RELATED DATA RECORDS IN A DISTRIBUTED ELECTRONIC LEDGER
(73) Motorola Solutions, Inc.
(72) LAW, Daniel A.
HIBEN, Bradley M.
JOHNSON, Eric,
MESSERGES, Thomas S.,
SCHULER, Francesca,
(31) 201815920772
(32) 14.03.2018
(33) United States of America

(51) H04L 9/32
G06F 21/44
G06F 21/52
G06F 21/57
(11) EP3690690
(21) EP19154375.0
(47) 26.01.2022
(22) 30.01.2019
(54) METHOD FOR TESTING A VALIDITY OF DATA AND COMPUTER IMPLEMENTED DEVICE FOR PROCESSING DATA
(73) Siemens Aktiengesellschaft
(72) Feist, Christian Peter
Zeschg, Thomas
Aschauer, Hans
Falk, Rainer

(51) H04L 9/32
G06F 21/64
G06Q 10/10
G06Q 20/12
G06Q 20/20
G06Q 20/22
G07F 17/24
(11) EP3609123
(21) EP19187884.2
(47) 26.01.2022
(22) 23.07.2019
(54) METHOD AND DEVICE FOR TESTING A SITUATION IN A DECENTRALIZED TRANSACTION SYSTEM
(73) Robert Bosch GmbH
(72) De Waard, Danny
Berg, Florian
Achar, Madhav
Ververis, Diamantis
Schaefer, Michael
(31) 102018213304
(32) 08.08.2018
(33) Germany

(51) H04L 9/32
H04L 9/00
(11) EP3777027
(21) EP19756068.3
(47) 26.01.2022
(87) US2019045081
13.02.2020
(22) 05.08.2019
(54) METHOD, APPARATUS AND ELECTRONIC DEVICE FOR BLOCKCHAIN TRANSACTIONS
(73) Advanced New Technologies Co., Ltd.
(72) MA, Baoli
YIN, Shan
LI, Lichun
LIU, Zheng
ZHANG, Wenbin
(31) 201810886845
(32) 06.08.2018
(33) China

(51) H04L 9/32
H04L 9/30
G06Q 40/00
G06F 21/64
G06Q 20/22
G06Q 20/32
G06Q 20/38
G06Q 30/06
H04L 9/08
(11) EP3642998
(21) EP17914162.7
(47) 26.01.2022
(87) US2017039132
27.12.2018
(22) 23.06.2017
(54) VERIFICATION AND ENCRYPTION SCHEME IN DATA STORAGE
(73) Visa International Service Association
(72) WANG, Quan

(51) H04L 12/10
(11) EP3637675
(21) EP18806048.7
(47) 26.01.2022
(87) CN2018074468
29.11.2018
(22) 29.01.2018

(54) POWER CONTROL AND MANAGEMENT OF CASCADED POWERED DEVICES
(73) Huawei Technologies Co., Ltd.
(72) HUA, Rui
FU, Shiyong
CHEN, Xueqi
HUANG, Fuguang
ZHUANG, Yan
CAO, Jincan
(31) 201710386895
(32) 26.05.2017
(33) China

(51) H04L 12/16
H04L 9/32
H04L 29/02
H04L 29/06
H04L 29/08
H04L 12/751
(11) EP2673920
(21) EP11858205.5
(47) 26.01.2022
(87) KR2011008794
16.08.2012
(22) 17.11.2011
(54) METHOD AND APPARATUS FOR CONTROLLING CONNECTION BETWEEN DEVICES
(73) Samsung Electronics Co., Ltd.
(72) LEE, Keum-Koo
SUNG, Ju-Yun
CHOO, Hee-Jeong
(31) 20110011612
(32) 09.02.2011
(33) Korea (Republic)

(51) H04L 12/18
(11) EP3595247
(21) EP18774686.2
(47) 26.01.2022
(87) CN2018079283
04.10.2018
(22) 16.03.2018
(54) IDENTITY AUTHENTICATION METHOD AND SYSTEM
(73) Huawei Technologies Co., Ltd.
(72) CHU, Chengkang
FANG, Chengfang
FANG, Xiwen
SHI, Jie
(31) 201710211600
(32) 31.03.2017
(33) China

(51) H04L 12/24
(11) EP3226474
(21) EP17163958.6
(47) 26.01.2022
(22) 30.03.2017
(54) METHOD FOR PREDICTING A LEVEL OF QOE OF AN APPLICATION INTENDED TO BE RUN ON A WIRELESS USER EQUIPMENT
(73) AirTies Belgium SPRL
(72) NEVES DA HORA, Diego
VAN DOORSELAER, Karel
VAN OOST, Koen
TEIXEIRA, Renata
(31) 16305390
(32) 01.04.2016
(33) European Patent Office (EPO)

(51) H04L 12/24
H04L 12/26
H04L 12/911
H04L 12/927
(11) EP2904751
(21) EP12773283.2
(47) 26.01.2022
(87) EP2012069335
10.04.2014
(22) 01.10.2012
(54) EVENT BASED QUALITY OF SERVICE ADJUSTMENT
(73) Nokia Solutions and Networks Oy
(72) BELLING, Thomas

(51) H04L 12/24
H04L 12/28
(11) EP3627766
(21) EP18814303.6
(47) 26.01.2022
(87) CN2018090135
13.12.2018
(22) 06.06.2018
(54) METHOD AND SYSTEM FOR SWITCHING BETWEEN ACTIVE BNG AND STANDBY BNG
(73) Huawei Technologies Co., Ltd.
(72) GUO, Hongtao
PENG, Shuping
CHEN, Guoyi
(31) 201710429393
(32) 08.06.2017
(33) China

(51) H04L 12/24
H04L 12/721
(11) EP3820117
(21) EP19207870.7
(47) 26.01.2022
(22) 08.11.2019
(54) DISTRIBUTED UPF IMPLEMENTATION FOR 5G NETWORKS
(73) Deutsche Telekom AG
(72) PAUL, Manuel
COLOM IKUNO, Josep

(51) H04L 12/24
H04L 12/851
(11) EP3579505
(21) EP17895073.9
(47) 26.01.2022
(87) CN2017117993
09.08.2018
(22) 22.12.2017
(54) ORCHESTRATION AND MANAGEMENT SYSTEM AND NETWORK SLICE PROCESSING METHOD
(73) ZTE Corporation
(72) CHEN, Dong
(31) 201710064200
(32) 04.02.2017
(33) China

(51) H04L 12/24
H04L 12/931
(11) EP3041173
(21) EP16155677.4
(47) 26.01.2022
(22) 03.05.2011
(54) VIRTUAL CLUSTER SWITCHING
(73) Avago Technologies International Sales Pte. Limited
(72) HARIS, Shiv
VOBBILISETTY, Suresh
NARAYANASAMY, Senthilkumar
GUNTAKA, Vidyasagara R.
CHATWANI, Dilip
KOGANTI, Phanidhar
WILLEKE, Jesse B
(31) 201113098490
201113098360
201113092752
201113092460
201113092724
201113092877
201113092701
201113092580
201113087239
201113042259
380807 P
380803 P
380819 P
380818 P
352819 P
352776 P
352264 P
352255 P
350838 P
349603 P
345953 P
334945 P
333666 P
330678 P
(32) 02.05.2011
29.04.2011
22.04.2011
22.04.2011
22.04.2011
22.04.2011
22.04.2011
22.04.2011
14.04.2011
07.03.2011
08.09.2010
08.09.2010
08.09.2010
08.09.2010
08.06.2010
08.06.2010
07.06.2010
07.06.2010
02.06.2010
28.05.2010
18.05.2010
14.05.2010
11.05.2010
03.05.2010
(33) United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America

United States of America
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United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America

(51) H04L 12/24
H04L 29/08
H04L 12/26
(11) EP3457630
(21) EP17207620.0
(47) 26.01.2022
(22) 15.12.2017
(54) IDENTIFICATION OF AN ALTERNATE PRINCIPAL MEMBER PORT BY A TARGET DEVICE IN A STORAGE AREA NETWORK
(73) Hewlett Packard Enterprise Development LP
(72) MOHAN, Rupin T
PUTTAGUNTA, Krishna
AGARWAL, Vivek
(31) 201715704224
(32) 14.09.2017
(33) United States of America

(51) H04L 12/26
(11) EP3618356
(21) EP19172868.2
(47) 26.01.2022
(22) 01.06.2016
(54) PACKET LOSS DETECTION APPARATUSES, AND SYSTEM
(73) Huawei Technologies Co., Ltd.
(72) Pan, Haotao
Yan, Jinfeng
Fan, Duoliang
Li, Binxuan
Liu, Heyang
(31) 201510299294
(32) 03.06.2015
(33) China

(51) H04L 12/26
(11) EP3745651
(21) EP19177153.4
(47) 26.01.2022
(22) 29.05.2019
(54) MEASURING SYSTEM AND MEASURING METHOD FOR MEASURING INTERACTIVITY
(73) Rohde & Schwarz GmbH & Co. KG
(72) Berger, Jens

(51) H04L 12/26
H04L 12/933
H04L 12/947
H04L 12/937
H04L 12/931
H04L 12/939
(11) EP3591900
(21) EP19192134.5
(47) 26.01.2022
(22) 12.12.2011
(54) METHODS AND APPARATUS FOR STANDARD PROTOCOL VALIDATION MECHANISMS DEPLOYED OVER A SWITCH FABRIC SYSTEM
(73) Juniper Networks, Inc.
(72) MEHRA, Ashwani Kumar
RAJAMANI, Srikar
SAKSENA, Saurabh
(31) 98102510
98103310
(32) 29.12.2010
29.12.2010
(33) United States of America
United States of America

(51) H04L 12/28
(11) EP3442168
(21) EP18198261.2
(47) 26.01.2022
(22) 14.12.2012
(54) CONTROL SYSTEM FOR PLAYING BACK A DATA STREAM ON A RECEIVER DEVICE
(73) ORANGE
(72) CONAN, Martin
CAPDEVIELLE, Marc
CAZOULAT, Renaud
(31) 1162444
(32) 23.12.2011
(33) France

(51) H04L 12/28
G05B 19/418
H04L 12/403
H04L 12/40
(11) EP3742676
(21) EP18899813.2
(47) 26.01.2022
(87) JP2018000773
18.07.2019
(22) 15.01.2018
(54) MULTIPLEXING DEVICE, WORKING MACHINE, AND COMMUNICATION DISCONNECTION METHOD
(73) Fuji Corporation
(72) NAGASAKA, Nobuo
KANAI, Hidekazu
WATANABE, Kenji

(51) H04L 12/28
H04J 3/16
H04L 1/00
H04L 29/06
(11) EP3691194
(21) EP18871287.1
(47) 26.01.2022
(87) CN2018111272
02.05.2019
(22) 22.10.2018
(54) METHOD AND APPARATUS FOR TRANSMITTING DATA
(73) Huawei Technologies Co., Ltd.
(72) ZHA, Min
LOU, Zhe
ZHANG, Xiaojun
(31) 201710993282
(32) 23.10.2017
(33) China

(51) H04L 12/28
H04L 29/08
(11) EP3560147
(21) EP17829244.7
(47) 26.01.2022
(87) FR2017053663
28.06.2018
(22) 18.12.2017
(54) AUTOMATION OF EXCHANGES BETWEEN COMMUNICATING OBJECTS
(73) ORANGE
(72) GIRAUDON, Vincent
BRUNO, Adrien
(31) 1662825
(32) 20.12.2016
(33) France

(51) H04L 12/28
H05B 47/19
H05B 47/20
(11) EP3298727
(21) EP16726727.7
(47) 26.01.2022
(87) US2016033125
24.11.2016
(22) 18.05.2016
(54) LIGHTING COMMUNICATIONS GATEWAY
(73) Xicato, Inc.
(72) HARBERS, Gerard
(31) 201615157286
201562163281 P
(32) 17.05.2016
18.05.2015
(33) United States of America
United States of America

(51) H04L 12/46
(11) EP3579461
(21) EP17898944.8
(47) 26.01.2022
(87) CN2017075246
07.09.2018
(22) 28.02.2017
(54) VIRTUALIZATION METHOD FOR OPTICAL LINE TERMINAL (OLT) DEVICE, AND RELATED DEVICE
(73) Huawei Technologies Co., Ltd.
(72) WANG, Daoming
WEI, Zengzhan
TANG, Jianwen
ZHANG, Yanhua

(51) H04L 12/46
H04L 12/70
H04L 12/707
H04L 29/06
H04L 12/721
H04L 12/723
(11) EP3678338
(21) EP18858770.3
(47) 26.01.2022
(87) CN2018107310
28.03.2019
(22) 25.09.2018
(54) METHOD FOR FORWARDING MESSAGES AND NETWORK DEVICE
(73) Huawei Technologies Co., Ltd.
(72) GENG, Xuesong
CHEN, Guoyi
(31) 201710873391
(32) 25.09.2017
(33) China

(51) H04L 12/46
H04W 4/80
H04W 8/00
(11) EP3340539
(21) EP16306793.7
(47) 26.01.2022
(22) 22.12.2016
(54) COMMISSIONING AND PERSONALIZING DEVICES IN A LOCAL AREA NETWORK
(73) Netatmo
(72) PAOLI, Romain
POTTER, Frédéric
DEBARD, Marie

(51) H04L 12/58
(11) EP3402136
(21) EP16887065.7
(47) 26.01.2022
(87) CN2016072507
03.08.2017
(22) 28.01.2016
(54) INFORMATION INTERACTION METHOD, CLIENT AND DEVICE
(73) Huawei Technologies Co., Ltd.
(72) SHEN, Changshan

(51) H04L 12/707
H04L 12/727
(11) EP3661133
(21) EP18848620.3
(47) 26.01.2022
(87) CN2018075612
28.02.2019
(22) 07.02.2018
(54) DELAY-BASED TRANSMISSION PATH CONTROL METHOD, NETWORK CONTROLLER AND SYSTEM
(73) Huawei Technologies Co., Ltd.
(72) XU, Hong
WEI, Jiahong
SONG, Jianmin
ZHANG, Xiquan
(31) 201710724352
(32) 22.08.2017
(33) China

(51) H04L 12/721
H04L 12/725
(11) EP3790238
(21) EP20193013.8
(47) 26.01.2022
(22) 27.08.2020
(54) SYSTEM AND METHOD FOR DETERMINING A SET OF ROUTES, IN A COMPUTERIZED ENVIRONMENT
(73) Amadeus S.A.S.
(72) BONAUD, Jacques
SALIBBA, Marco
DEMAZEAU, Michel
SOUBRA, Céline
PERRET, Jean-Philippe
(31) 1909689
(32) 03.09.2019
(33) France

(51) H04L 25/02
(11) EP3238397
(21) EP15813952.7
(47) 26.01.2022
(87) US2015061963
30.06.2016
(22) 20.11.2015
(54) SINGLE TTI TRANSMISSION OF CONTROL DATA IN WIRELESS COMMUNICATIONS
(73) Qualcomm Incorporated
(72) PATEL, Shimman Arvind
GAAL, Peter
CHEN, Wanshi
(31) 201514946448
201462096402 P
(32) 19.11.2015
23.12.2014
(33) United States of America
United States of America

(51) H04L 25/02
(11) EP3285445
(21) EP17183870.9
(47) 26.01.2022
(22) 28.07.2017
(54) MULTIPLE SAMPLING STAGE LINE RECEIVER AND RELATED METHODS
(73) MediaTek Inc.
(72) ALI, Tamer Mohammed
AWAD, Ramy
(31) 201715433493
201662376932 P
(32) 15.02.2017
19.08.2016
(33) United States of America
United States of America

(51) H04L 25/49
H03M 1/74
H03F 1/02
(11) EP3648426
(21) EP19203893.3
(47) 26.01.2022
(22) 17.10.2019
(54) INTEGRATED CIRCUIT AND METHOD FOR COMMUNICATING DATA
(73) Melexis Technologies SA
(72) FAHRNI, Kevin
PARDOEN, Matthijs
GHEZZI, Cesare
(31) 18204074
(32) 02.11.2018
(33) European Patent Office (EPO)

(51) H04L 27/26
H04L 25/03
(11) EP3445011
(21) EP16901259.8
(47) 26.01.2022
(87) CN2016081695
16.11.2017
(22) 11.05.2016
(54) SIGNAL PROCESSING METHODS AND TRANSMITTER
(73) Huawei Technologies Co., Ltd.
(72) WANG, Zongjie
HU, Yuanzhou
DONG, Pengpeng

(51) H04L 29/06
(11) EP3487144
(21) EP18205262.1
(47) 26.01.2022
(22) 08.11.2018
(54) MALICIOUS DOMAIN SCOPING RECOMMENDATION SYSTEM
(73) Accenture Global Solutions Limited
(72) CULLINAN, Dillon J.
DIVALENTIN, Louis William
(31) 201762588053 P
(32) 17.11.2017
(33) United States of America

(51) H04L 29/06
(11) EP3677006
(21) EP18743926.0
(47) 26.01.2022
(87) US2018039631
07.03.2019
(22) 27.06.2018
(54) DETECTION OF THE NETWORK LOGON PROTOCOL USED IN PASS-THROUGH AUTHENTICATION
(73) Microsoft Technology Licensing, LLC
(72) DUBINSKY, Michael
GRADY ASHKENAZY, Itai
SIMAKOV, Marina
MAOR, Tal Joseph
(31) 201715689229
(32) 29.08.2017
(33) United States of America

(51) H04L 29/06
(11) EP3725056
(21) EP18830310.1
(47) 26.01.2022
(87) IB2018059824
20.06.2019
(22) 10.12.2018
(54) OFFLOADING COMMUNICATION SECURITY OPERATIONS TO A NETWORK INTERFACE CONTROLLER
(73) Mellanox Technologies Ltd.
(72) LISS, Liran
MENACHEM, Adi
PISMENNY, Boris
(31) 201715841339
(32) 14.12.2017
(33) United States of America

(51) H04L 29/06
H04L 29/08
(11) EP3520351
(21) EP17772397.0
(47) 26.01.2022
(87) EP2017074054
05.04.2018
(22) 22.09.2017
(54) DEVICE AND METHOD FOR CONTINUOUS AND CROSS-MEDIA TRANSMISSION OF COMMUNICATION PROTOCOLS WITHOUT PROTOCOL CONVERSION
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(72) LOSKE, Moritz
KLATT, Matthias
OEDER, Andreas
(31) 102016218758
(32) 28.09.2016
(33) Germany

(51) H04L 29/06
H04L 29/08
H04L 1/00
H04W 4/44
(11) EP3832979
(21) EP21153849.1
(47) 26.01.2022

(22) 22.08.2019
(54) PARTITIONED WIRELESS COMMUNICATION SYSTEM WITH REDUNDANT DATA LINKS AND POWER LINES
(73) Aptiv Technologies Limited
(72) SCHÄFER, Christian
BORNEMANN, Martin
BAUER, Lee
(31) PA201870684
201862723448 P
(32) 19.10.2018
27.08.2018
(33) Denmark
United States of America

(51) H04L 29/06
H04L 29/12
(11) EP3503508
(21) EP18215768.5
(47) 26.01.2022
(22) 21.12.2018
(54) METHOD FOR PROCESSING REQUESTS AND PROXY SERVER
(73) ORANGE
(72) DURO, Jean-Marc
DESBUREAUX, Sylvain
FRECHIN, Régis
(31) 1762837
(32) 21.12.2017
(33) France

(51) H04L 29/06
H04M 7/12
H04M 7/00
H04W 4/90
(11) EP2412152
(21) EP10756644.0
(47) 26.01.2022
(87) US2010028021
30.09.2010
(22) 19.03.2010
(54) SYSTEM AND METHOD FOR PROVIDING A CIRCUIT SWITCHED DOMAIN NUMBER
(73) BlackBerry Limited
(72) BAKKER, Jan Hendrik Lucas
BUCKLEY, Adrian
ALLEN, Andrew
(31) 162991 P
(32) 24.03.2009
(33) United States of America

(51) H04L 29/06
H04W 12/06
H04W 12/00
H04W 12/033
H04W 12/065
H04W 12/65
(11) EP3827572
(21) EP19802336.8
(47) 26.01.2022
(87) US2019056277
22.04.2021
(22) 15.10.2019
(54) SYSTEMS AND METHODS FOR PROTECTING DATA
(73) Google LLC
(72) LIGHT, Curtis
WANG, Gang

(51) H04L 29/06
H04W 12/50
H04W 76/10
H04W 84/12
(11) EP3739838
(21) EP20156518.1
(47) 26.01.2022
(22) 22.08.2014
(54) METHOD FOR ESTABLISHING NETWORK CONNECTION BY USING WPS AND MOBILE WI-FI DEVICE AND COMPUTER STORAGE MEDIUM
(73) Huawei Technologies Co. Ltd.
(72) XIANG, Chao

(51) H04L 29/08
G06F 11/34
H04W 4/00
H04W 64/00
G06F 9/44
H04W 4/02
H04W 4/60
G06F 9/445
H04W 8/18
H04W 88/08
(11) EP2923265
(21) EP13802157.1
(47) 26.01.2022
(87) US2013070048
30.05.2014
(22) 14.11.2013
(54) CENTRALIZED DISPATCHING OF APPLICATION ANALYTICS
(73) Google LLC
(72) RHODES, Neil, Campbell
COTUGNO, James, Joseph
(31) 201313760634
201261729714 P
(32) 06.02.2013
26.11.2012
(33) United States of America
United States of America

(51) H04L 29/08
H04L 12/24
G06N 3/08
H04L 12/26
H04L 12/803
H04L 12/801
(11) EP3629553
(21) EP18832346.3
(47) 26.01.2022
(87) CN2018081867
17.01.2019
(22) 04.04.2018
(54) METHOD AND DEVICE FOR SERVICE SCHEDULING
(73) Wangsu Science & Technology Co., Ltd.
(72) ZHAO, Rui
(31) 201710576106
(32) 14.07.2017
(33) China

(51) H04L 29/08
H04L 29/12
(11) EP3734933
(21) EP20726272.6
(47) 26.01.2022
(87) CN2020074947
10.09.2020
(22) 12.02.2020
(54) RESOURCE ACQUISITION METHOD, SERVER AND STORAGE MEDIUM
(73) Wangsu Science & Technology Co., Ltd.
(72) CHEN, Long
(31) 201910164233
(32) 05.03.2019
(33) China

(51) H04L 29/12
H04B 7/0413
H04L 12/18
(11) EP3729792
(21) EP18815748.1
(47) 26.01.2022
(87) EP2018085149
27.06.2019
(22) 17.12.2018
(54) METHOD FOR TRANSMITTING FRAME BY A ACCESS POINT OF A WIRELESS LOCAL NETWORK
(73) SAGEMCOM BROADBAND SAS
(72) SABATIER, Pierre
LALAM, Massinissa
DEJARDIN, Romain
(31) 1762540
(32) 19.12.2017
(33) France

(51) H04L 29/12
H04L 29/06
(11) EP3238422
(21) EP15823674.5
(47) 26.01.2022
(87) FR2015053624
30.06.2016
(22) 18.12.2015
(54) METHOD AND DEVICE FOR MAINTAINING TRANSPORT ADDRESS ASSOCIATIONS FOR AN ADDRESS TRANSLATION ENTITY
(73) ORANGE
(72) LE ROUZIC, Jean-Claude
DOREE, José
(31) 1463211
(32) 23.12.2014
(33) France

(51) H04L 29/12
H04L 29/08
H04L 29/06
(11) EP3113460
(21) EP16176731.4
(47) 26.01.2022
(22) 28.06.2016
(54) ENHANCED INTER-NETWORK MONITORING AND ADAPTIVE MANAGEMENT OF DNS TRAFFIC
(73) Verisign, Inc.
(72) PHILLIPS, Denis
PANDRANGI, Ramakant
(31) 201615193806
201562185703 P
(32) 27.06.2016
28.06.2015
(33) United States of America
United States of America

(51) H04M 1/02
G06F 1/16
(11) EP3896948
(21) EP21178274.3
(47) 26.01.2022

(22) 11.03.2020
(54) ELECTRONIC DEVICE INCLUDING FOLDABLE CONDUCTIVE PLATE
(73) Samsung Electronics Co., Ltd.
(72) KIM, Harksang
YOO, Chungkeun
YEOM, Donghyun
KIM, Seonghoon
AHN, Sungho
(31) 20190070106
20190027753
(32) 13.06.2019
11.03.2019
(33) Korea (Republic)
Korea (Republic)

(51) H04M 1/02
H01Q 1/24
H01Q 1/22
H01Q 5/335
H01Q 13/10
H01Q 21/28
(11) EP3607734
(21) EP18810526.6
(47) 26.01.2022
(87) KR2018006075
06.12.2018
(22) 29.05.2018
(54) ELECTRONIC DEVICE COMPRISING AN ANTENNA
(73) Samsung Electronics Co., Ltd.
(72) KIM, Jae Hyung
LEE, Han Bin
MOON, Je Sun
HONG, Sung Yeul
YU, Chang Ha
BANG, Jin Kyu
LI, Hua
(31) 20170066463
(32) 29.05.2017
(33) Korea (Republic)

(51) H04M 1/02
H01Q 1/24
H01Q 1/38
H01Q 9/04
H01Q 5/30
H04B 7/0417
(11) EP3413543
(21) EP17763540.6
(47) 26.01.2022
(87) KR2017002445
14.09.2017
(22) 07.03.2017
(54) ELECTRONIC DEVICE COMPRISING ANTENNA
(73) Samsung Electronics Co., Ltd.
(72) PARK, Sung Chul
KIM, Jong Hyuk
KIM, Young Ju
(31) 20160029055
(32) 10.03.2016
(33) Korea (Republic)

(51) H04M 1/725
H04N 21/4363
G08C 17/02
H04L 12/24
G06F 3/0488
G06K 9/00
G06K 9/62
G06F 3/0482
H04N 21/41
H04N 21/422
H04N 21/436
G06F 3/0484
H04M 1/72415
(11) EP3345379
(21) EP16879102.8
(47) 26.01.2022
(87) KR2016007708
29.06.2017
(22) 15.07.2016
(54) METHOD FOR ELECTRONIC DEVICE TO CONTROL OBJECT AND ELECTRONIC DEVICE
(73) Samsung Electronics Co., Ltd.
(72) KIM, Jin-sung
MIN, Hyun-seok
LEE, Won-hee
LEE, Yong-chan
PARK, In-su
KOH, Jun-ho
LEE, Ki-heon
KIM, Hwa-kyung
KIM, Ju-hee
HAN, Sung-young
(31) 20160049403
20150185098
(32) 22.04.2016
23.12.2015
(33) Korea (Republic)
Korea (Republic)

(51) H04M 3/54
H04W 4/12
H04W 4/16
H04W 4/02
(11) EP2704409
(21) EP12182340.5
(47) 26.01.2022
(22) 30.08.2012
(54) Call Forwarding to a further Device based on Location
(73) BlackBerry Limited
(72) Mckenzie, Donald Somerset McCulloch
Pasquero, Jerome
Walker, David Ryan

(51) H04M 15/00
H04W 4/24
(11) EP3472999
(21) EP17730116.5
(47) 26.01.2022
(87) EP2017064004
21.12.2017
(22) 08.06.2017
(54) METHOD AND SYSTEM FOR DETECTING BYPASS IN A MOBILE TELEPHONIE NETWORK
(73) Araxxe
(72) MARCHAL, Alexandre
BENCHEQROUN, Mehdi
LESAGE, Xavier
SCHOLER, Christophe
(31) 1655612
(32) 16.06.2016
(33) France

(51) H04N 1/028
A47L 11/40
(11) EP2741483
(21) EP13195586.6
(47) 26.01.2022
(22) 04.12.2013
(54) Mobile cleaning device and method for one's operation
(73) Vorwerk & Co. Interholding GmbH
(72) Meggle, Martin
Hillen, Lorenz
Strang, Benjamin
(31) 102012111792
(32) 05.12.2012
(33) Germany

(51) H04N 5/225
H04N 5/235
H04N 5/353
A61B 34/35
A61B 34/30
A61B 90/00
(11) EP3577894
(21) EP18748602.2
(47) 26.01.2022
(87) US2018016905
09.08.2018
(22) 05.02.2018
(54) SYSTEM AND METHOD FOR EXTRACTING MULTIPLE FEEDS FROM A ROLLING-SHUTTER SENSOR
(73) Intuitive Surgical Operations Inc.
(72) MCDOWALL, Ian, E.
WATSON, Jason, Paul
(31) 201762455137 P
(32) 06.02.2017
(33) United States of America

(51) H04N 5/232
(11) EP3518522
(21) EP16920066.4
(47) 26.01.2022
(87) CN2016103296
03.05.2018
(22) 25.10.2016
(54) IMAGE CAPTURING METHOD AND DEVICE
(73) Huawei Technologies Co., Ltd.
(72) LU, Peng

(51) H04N 5/232
(11) EP3366036
(21) EP16857611.4
(47) 26.01.2022
(87) KR2016003212
27.04.2017
(22) 29.03.2016
(54) MOBILE TERMINAL AND CONTROLLING METHOD THEREOF
(73) LG Electronics Inc.
(72) CHUNG, Sooyon
IM, Soungmin
(31) 20150148159
(32) 23.10.2015
(33) Korea (Republic)

(51) H04N 5/232
G02B 7/28
G03B 13/36
(11) EP3588934
(21) EP17897500.9
(47) 26.01.2022
(87) CN2017117163
30.08.2018
(22) 19.12.2017

(54) AUTOMATIC FOCUSING METHOD AND APPARATUS BASED ON REGION OF INTEREST
(73) Suzhou Keda Technology Co., Ltd.
Suzhou Keyuan Software Technology Co., Ltd.
Suzhou Keda Special Video Co., Ltd.
(72) TANG, Fengfeng
SONG, Jiayang
CAO, Lijun
ZHANG, Yong
CHEN, Weidong
(31) 201710094614
(32) 21.02.2017
(33) China
(51) H04N 5/265
H04N 5/225
H04N 5/232
H04N 13/239
H04N 13/271
H04N 13/128
(11) EP3628121
(21) EP18847465.4
(47) 26.01.2022
(87) KR2018008935
28.02.2019
(22) 07.08.2018
(54) ELECTRONIC DEVICE FOR STORING DEPTH INFORMATION IN CONNECTION WITH IMAGE DEPENDING ON PROPERTIES OF DEPTH INFORMATION OBTAINED USING IMAGE AND CONTROL METHOD THEREOF
(73) Samsung Electronics Co., Ltd.
(72) LEE, Ki Huk
SUNG, Dae Hyun
KIM, Dong Hoon
LEE, Woo Yong
(31) 20170106336
(32) 22.08.2017
(33) Korea (Republic)
(51) H04N 5/3745
H04N 5/378
H04N 5/369
H01L 27/146
G11C 7/12
(11) EP3439287
(21) EP17774029.7
(47) 26.01.2022
(87) JP2017008022
05.10.2017
(22) 28.02.2017
(54) IMAGE PICKUP ELEMENT AND IMAGE PICKUP DEVICE
(73) Nikon Corporation
(72) KOMAI, Atsushi
(31) 2016069737
(32) 30.03.2016
(33) Japan
(51) H04N 5/378
H01L 27/146
H04N 5/374
H04N 5/335
G06K 9/00
(11) EP3573334
(21) EP17892403.1
(47) 26.01.2022
(87) JP2017043718
26.07.2018
(22) 06.12.2017
(54) INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, AND RECORDING MEDIUM
(73) Sony Semiconductor Solutions Corporation
(72) MINAGAWA, Yusuke
AKISHITA, Toru
(31) 2017009410
(32) 23.01.2017
(33) Japan
(51) H04N 7/083
H04N 7/08
(11) EP3840368
(21) EP19217338.3
(47) 26.01.2022
(22) 18.12.2019
(54) METHOD OF INJECTING ADDITIONAL DATA
(73) Axis AB
(72) Alm, Carl-Axel
(51) H04N 7/18
(11) EP3836538
(21) EP19214488.9
(47) 26.01.2022
(22) 09.12.2019
(54) DISPLAYING A VIDEO STREAM
(73) Axis AB
(72) Tran, Stefan
Andersson, Markus
(51) H04N 9/31
(11) EP3445047
(21) EP18184254.3
(47) 26.01.2022
(22) 18.07.2018
(54) REAL-TIME SPATIAL-BASED RESOLUTION ENHANCEMENT USING SHIFTED SUPERPOSITION
(73) Christie Digital Systems USA, Inc.
(72) WONG, Alexander
FIEGUTH, Paul
LAMM, Mark
MA, Bojie
GAWISH, Ahmed
(31) 201715676394
(32) 14.08.2017
(33) United States of America
(51) H04N 13/00
(11) EP2509328
(21) EP12162521.4
(47) 26.01.2022
(22) 30.03.2012
(54) Method and apparatus for generating a 3d image from a 2d image
(73) Vestel Elektronik Sanayi ve Ticaret A.S.
(72) Bastug, Ahmet
Ozdemir, Huseyin
Ozer, Nuri
(31) 201103444
(32) 08.04.2011
(33) Turkey
(51) H04N 19/30
H04N 21/854
H04N 21/43
H04N 21/23
H04N 21/8543
H04N 19/70
H04N 21/2343
H04N 21/236
H04N 21/434
H04N 21/4402
H04N 21/63
H04N 21/81
H04N 21/845
(11) EP3304904
(21) EP16802635.9
(47) 26.01.2022
(87) FI2016050380
08.12.2016
(22) 31.05.2016
(54) A METHOD, AN APPARATUS, A COMPUTER PROGRAM FOR VIDEO CODING
(73) Nokia Technologies Oy
(72) AKSU, Emre
HANNUKSELA, Miska
(31) 201509569
(32) 03.06.2015
(33) United Kingdom
(51) H04N 19/42
H04N 19/70
H04N 19/46
H04N 21/236
H04N 21/43
H04N 21/44
(11) EP3046328
(21) EP14843529.0
(47) 26.01.2022
(87) JP2014071112
19.03.2015
(22) 08.08.2014
(54) ENCODING DEVICE, TRANSMITTING DEVICE, AND RECEIVING DEVICE
(73) Sony Group Corporation
(72) TSUKAGOSHI, Ikuo
(31) 2013189332
(32) 12.09.2013
(33) Japan
(51) H04N 19/597
H04N 19/52
H04N 19/70
(11) EP3028466
(21) EP13889840.8
(47) 26.01.2022
(87) CN2013001639
29.01.2015
(22) 24.12.2013
(54) SIMPLIFIED ADVANCED MOTION PREDICTION FOR 3D-HEVC
(73) Qualcomm Incorporated
(72) THIRUMALAI, Vijayaraghavan
ZHANG, Li
CHEN, Ying
LIU, Hongbin
(31) 201361913031 P
201361872540 P
201361858089 P
(32) 06.12.2013
30.08.2013
24.07.2013
(33) United States of America
United States of America
United States of America

(51) H04N 19/70
(11) EP2941890
(21) EP13828897.2
(47) 26.01.2022
(87) US2013077573
10.07.2014
(22) 23.12.2013
(54) INDICATION OF PRESENCE OF TEXTURE AND DEPTH VIEWS IN TRACKS FOR MULTIVIEW CODING PLUS DEPTH
(73) Qualcomm Incorporated
(72) WANG, Ye-Kui
CHEN, Ying
(31) 201314137063
201361749089 P
(32) 20.12.2013
04.01.2013
(33) United States of America
United States of America

(51) H04N 19/70
H04N 19/46
H04N 19/186
H04N 19/85
(11) EP3497934
(21) EP17754573.8
(47) 26.01.2022
(87) US2017045947
15.02.2018
(22) 08.08.2017
(54) COLOR REMAPPING INFORMATION SEI MESSAGE SIGNALING FOR DISPLAY ADAPTATION
(73) Qualcomm Incorporated
(72) BUGDAYCI SANSLI, Done
SOLE ROJALS, Joel
RUSANOVSKYY, Dmytro
RAMASUBRAMONIAN, Adarsh Krishnan
(31) 201715670832
201662372692 P
(32) 07.08.2017
09.08.2016
(33) United States of America
United States of America

(51) H04N 19/96
H04N 19/70
H04N 19/186
H04N 19/119
(11) EP3738315
(21) EP19712649.3
(47) 26.01.2022
(87) US2019020740
24.10.2019
(22) 05.03.2019
(54) LUMA AND CHROMA BLOCK PARTITIONING
(73) Huawei Technologies Co. Ltd.
(72) FU, Jiali
CHEN, Jianle
ZHAO, Yin
YANG, Haitao
(31) 201862732675 P
201862660121 P
(32) 18.09.2018
19.04.2018
(33) United States of America
United States of America

(51) H04N 21/23
(11) EP3300372
(21) EP17199267.0
(47) 26.01.2022
(22) 28.12.2009
(54) UPDATING A PLAYLIST FOR STREAMING CONTENT
(73) Apple Inc.
(72) BIDERMAN, David
TSENG, Alan
MAY, William
PANTOS, Roger
BATSON, James
(31) 288828 P
240648 P
479690
479698
479732
479735
167524
161036 P
160693 P
142110 P
(32) 21.12.2009
08.09.2009
05.06.2009
05.06.2009
05.06.2009
05.06.2009
07.04.2009
17.03.2009
16.03.2009
31.12.2008
(33) United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America

(51) H04N 21/234
G06Q 30/02
H04H 20/10
H04N 21/44
H04N 21/81
H04N 21/845
H04H 60/40
H04H 60/81
(11) EP2814256
(21) EP13171449.5
(47) 26.01.2022
(22) 11.06.2013
(54) Method and apparatus for modifying a stream of digital content
(73) MX1 GmbH
(72) Herrfurt, Matthias
Sohst, Lennart

(51) H04N 21/2343
H04N 21/262
H04N 21/2662
H04N 21/442
H04N 21/6587
H04N 21/845
H04N 21/2387
H04N 21/854
H04N 21/8543
H04L 29/06
G11B 27/00
G11B 27/11
G11B 27/32
(11) EP3697096
(21) EP19211286.0
(47) 26.01.2022
(22) 23.12.2011
(54) PLAYBACK DEVICE FOR PERFORMING SMOOTH VISUAL SEARCH OF MEDIA ENCODED FOR ADAPTIVE BITRATE STREAMING USING TRICK PLAY STREAMS
(73) DivX, LLC
(72) Soroushian, Kourosh
Van der Schaar, Auke Sjoerd
Braness, Jason
(31) 201113223186
201113223210
201161430110 P
(32) 31.08.2011
31.08.2011
05.01.2011
(33) United States of America
United States of America
United States of America

(51) H04N 21/235
H04N 21/435
H04N 21/236
H04N 7/088
H04N 21/488
H04N 21/854
H04N 21/61
(11) EP3493548
(21) EP17834115.2
(47) 26.01.2022
(87) JP2017026080
01.02.2018
(22) 19.07.2017
(54) TRANSMISSION DEVICE, TRANSMISSION METHOD, RECEPTION DEVICE, AND RECEPTION METHOD
(73) Sony Group Corporation
(72) TAKABAYASHI, Kazuhiko
TSUKAGOSHI, Ikuo
(31) 2016146812
(32) 26.07.2016
(33) Japan

(51) H04N 21/436
(11) EP3704863
(21) EP18804755.9
(47) 26.01.2022
(87) US2018057498
09.05.2019
(22) 25.10.2018
(54) LOW LATENCY AUDIO DISTRIBUTION
(73) Bose Corporation
(72) ELLIOT, Michael W.
(31) 201762580489 P
(32) 02.11.2017
(33) United States of America

(51) H04N 21/485
H04N 21/422
G06T 7/00
H04N 5/20
H04N 21/431
H04N 5/445

H04N 21/81
H04N 21/45
H04N 21/44
(11) EP3568993
(21) EP18763641.0
(47) 26.01.2022
(87) KR2018002793
13.09.2018
(22) 08.03.2018
(54) DISPLAY DEVICE FOR RECOGNIZING USER INTERFACE AND CONTROLLING METHOD THEREOF
(73) Samsung Electronics Co., Ltd.
(72) KWON, Oh In
(31) 20170029691
(32) 08.03.2017
(33) Korea (Republic)

(51) H04N 21/6334
H04N 21/418
H04N 21/426
H04N 21/436
(11) EP3560212
(21) EP17832158.4
(47) 26.01.2022
(87) US2017068163
28.06.2018
(22) 22.12.2017
(54) SECURING TRANSMISSION OF CONTENT FROM A SMART CARD IN A HOST TELEVISION RECEIVER TO A CLIENT TELEVISION RECEIVER
(73) DISH Technologies L.L.C.
(72) HAMRICK, John
BEALS, William Michael
(31) 201715474893
201662438903 P
(32) 30.03.2017
23.12.2016
(33) United States of America
United States of America

(51) H04Q 11/00
H04L 12/24
H04L 12/937
(11) EP3465985
(21) EP17823461.3
(47) 26.01.2022
(87) CN2017083783
11.01.2018
(22) 10.05.2017
(54) A METHOD AND SYSTEM FOR DISTRIBUTED CONTROL OF LARGE PHOTONIC SWITCHED NETWORKS
(73) Huawei Technologies Co., Ltd.
(72) MEHRVAR, Hamid
(31) 201615201563
(32) 04.07.2016
(33) United States of America

(51) H04R 1/10
H04R 1/28
H04R 5/033
(11) EP3688999
(21) EP18788946.4
(47) 26.01.2022
(87) US2018052608
04.04.2019
(22) 25.09.2018
(54) COMPOSITE EARCUSHION
(73) Bose Corporation
(72) STACEY, Derek, J.
HOUSE, Richard, L.
MEEKER, David
ENGLAND, Raymond, O.
(31) 201715716796
(32) 27.09.2017
(33) United States of America

(51) H04R 1/10
H04R 29/00
(11) EP3485652
(21) EP18767067.4
(47) 26.01.2022
(87) US2018020781
20.09.2018
(22) 02.03.2018
(54) HEADSET SYSTEM WITH ACOUSTIC SAFETY INCIDENT DETECTION
(73) Plantronics, Inc.
(72) RAJASEKARAN, Arun
(31) 201715457236
(32) 13.03.2017
(33) United States of America

(51) H04R 1/44
(11) EP3651475
(21) EP19020616.9
(47) 26.01.2022
(22) 05.11.2019
(54) A PRESSURE REGULATOR FOR HYDROPHONE
(73) Fish Guidance Systems Limited
(72) Mayne, Keith
Latter-Stapley, Tom
Lambert, Michael
(31) 201818150
(32) 07.11.2018
(33) United Kingdom

(51) H04R 7/04
(11) EP3641341
(21) EP19213240.5
(47) 26.01.2022
(22) 07.11.2018
(54) DISPLAY APPARATUS
(73) LG Display Co., Ltd.
(72) KIM, Kwangho
(31) 20170168632
(32) 08.12.2017
(33) Korea (Republic)

(51) H04R 9/02
H04R 3/00
(11) EP3435686
(21) EP16895019.4
(47) 26.01.2022
(87) CN2016083089
28.09.2017
(22) 24.05.2016
(54) ELECTRODYNAMIC LOUDSPEAKER SYSTEM WITH CAPACITIVE SENSING MEANS
(73) Goertek Inc
(72) ZHAO, Guodong
YANG, Xinfeng
JI, Pengcheng
(31) 201610160980
(32) 21.03.2016
(33) China

(51) H04R 25/00
(11) EP3395083
(21) EP16822184.4
(47) 26.01.2022
(87) EP2016082602
29.06.2017
(22) 23.12.2016
(54) IMPLANTABLE MICROPHONE FOR AN IMPLANTABLE EAR PROSTHESIS
(73) Assistance Publique des Hôpitaux de Marseille
Université d'Aix Marseille
Institut Français des Sciences et Technologies des Transports, de l'Aménagement et des Réseaux
(72) DEVEZE, Arnaud Philippe
BADIH, Laurent
(31) 1563344
(32) 24.12.2015
(33) France

(51) H04R 25/00
G06F 3/16
G06F 3/01
G06F 3/0346
H04S 7/00
(11) EP3407627
(21) EP18172167.1
(47) 26.01.2022
(22) 14.05.2018
(54) HEARING ASSISTANCE SYSTEM INCORPORATING DIRECTIONAL MICROPHONE CUSTOMIZATION
(73) Starkey Laboratories, Inc.
(72) Sacha, Michael Karl
Recker, Karrie LaRae
(31) 201715604353
(32) 24.05.2017
(33) United States of America

(51) H04R 25/00
H04R 1/10
(11) EP3668116
(21) EP18211698.8
(47) 26.01.2022
(22) 11.12.2018
(54) HEAD-WEARABLE HEARING DEVICE WITH IMPACT ENABLED REBOOT
(73) GN Hearing A/S
(72) LEENEN, Joseph Renier Gerardus Maria

(51) H04R 29/00
H04S 7/00
(11) EP3627859
(21) EP19197800.6
(47) 26.01.2022
(22) 17.09.2019
(54) SYSTEM AND METHOD FOR DETECTING AND INDICATING THAT AN AUDIO SYSTEM IS INEFFECTIVELY TUNED
(73) BlackBerry Limited
(72) LAYTON, Leonard, Charles
SOJA II, Robert, Joseph
PARANJPE, Shreyas, Anand
(31) 201816135401
(32) 19.09.2018
(33) United States of America

(51) H04S 3/00
H04S 7/00
(11) EP2727381
(21) EP12738278.6
(47) 26.01.2022

(87) US2012044363
10.01.2013
(22) 27.06.2012
(54) APPARATUS AND METHOD FOR RENDERING AUDIO OBJECTS
(73) Dolby Laboratories Licensing Corporation
(72) SCHARPF, Jurgen W.
TSINGOS, Nicolas R.
ROBINSON, Charles Q.
(31) 201261636102 P
201161504005 P
(32) 20.04.2012
01.07.2011
(33) United States of America
United States of America

(51) H04W 4/00
H04W 4/02
H04W 4/80
G01S 1/04
H04W 4/021
(11) EP3079381
(21) EP16164400.0
(47) 26.01.2022
(22) 08.04.2016
(54) HIGH ACCURACY INDOOR LOCATING SYSTEM
(73) Datalogic IP TECH S.r.l.
(72) BOTTAZZI, Marco
SAVIOLI, Enrico
NATALI, Federico
(31) 201514682942
(32) 09.04.2015
(33) United States of America

(51) H04W 4/00
H04W 4/16
H04W 4/60
H04L 29/08
H04L 29/06
H04M 7/12
H04M 3/58
(11) EP3526986
(21) EP16918540.2
(47) 26.01.2022
(87) IB2016056111
19.04.2018
(22) 12.10.2016
(54) SURROGATE CELLULARLESS ROAMING
(73) Al Hajri, Mohammed Hamad
(72) MAHJOUBI, Karim
ELBARE, Fehmi
AL HAJRI, Mohammed Hamad

(51) H04W 4/00
H04W 52/14
H04W 52/24
H04W 52/36
H04W 74/00
H04W 72/04
H04W 8/22
H04L 1/00
H04W 52/50
(11) EP3494714
(21) EP17836467.5
(47) 26.01.2022
(87) FI2017050563
08.02.2018
(22) 03.08.2017
(54) POWER CLASS BASED COVERAGE ENHANCEMENT LEVEL SELECTION
(73) Nokia Technologies Oy
(72) KOSKINEN, Jussi-Pekka
KAIKKONEN, Jorma
(31) 201662371344 P
(32) 05.08.2016
(33) United States of America

(51) H04W 4/02
(11) EP3761715
(21) EP19770377.0
(47) 26.01.2022
(87) CN2019078372
26.09.2019
(22) 15.03.2019
(54) INFORMATION PROCESSING METHOD, RELATED DEVICE, AND COMPUTER STORAGE MEDIUM
(73) HUAWEI TECHNOLOGIES CO., LTD.
(72) CHEN, Xiaoguang
(31) 201810251672
(32) 23.03.2018
(33) China

(51) H04W 4/02
H04W 4/00
H04W 4/80
H04W 4/029
H04W 12/06
H04W 12/08
H04W 12/33
H04B 1/034
H04B 1/3888
G07C 9/00
G07C 9/27
G07C 9/28
H01Q 1/27
H01Q 1/36
A44C 5/00
H01Q 1/22
H01Q 7/00
H04B 5/00
(11) EP3731553
(21) EP20179790.9
(47) 26.01.2022
(22) 17.05.2017
(54) WIRELESS GUEST ENGAGEMENT SYSTEM
(73) Carnival Corporation
(72) Lam, Sander
Curtis, Glenn
Leonards, Adam
Padgett, John
Ball, Vince
Vellon, Manny
Prestenback, Kyle
Mendiuk, Patrick
Jungen, Michael G
Criado, Richard J
Steele, Douglas
(31) 201715459906
201662440938 P
201662420998 P
(32) 15.03.2017
30.12.2016
11.11.2016
(33) United States of America
United States of America
United States of America

(51) H04W 4/06
H04W 76/28
(11) EP3456128
(21) EP16726910.9
(47) 26.01.2022
(87) FI2016050315
16.11.2017
(22) 12.05.2016
(54) METHOD AND APPARATUS FOR PAUSING UPLINK TRANSMISSION DURING A TRANSMISSION TIME INTERVAL
(73) Nokia Technologies Oy
(72) PEDERSEN, Klaus

(51) H04W 4/12
H04W 4/029
H04W 4/18
(11) EP3329696
(21) EP16750935.5
(47) 26.01.2022
(87) FR2016051734
09.02.2017
(22) 07.07.2016
(54) DEVICE FOR DETERMINING A TRAJECTORY
(73) Intersec
(72) THOUEMENT, Sébastien
NUNEZ DEL PRADO CORTEZ, Miguel
COIC, Jean-Marc
(31) 1557395
(32) 31.07.2015
(33) France

(51) H04W 4/44
(11) EP3772862
(21) EP20164874.8
(47) 26.01.2022
(22) 23.03.2020
(54) VEHICLE INFORMATION INTERACTING METHOD, DEVICE, APPARATUS AND STORAGE MEDIUM
(73) BEIJING BAIDU NETCOM SCIENCE TECHNOLOGY CO., LTD.
(72) CHEN, Shangyi
LIU, Siyang
HU, Xing
(31) 201910716366
(32) 05.08.2019
(33) China

(51) H04W 4/50
H04W 4/60
(11) EP2649783
(21) EP11847301.6
(47) 26.01.2022
(87) US2011063736
14.06.2012
(22) 07.12.2011
(54) SYSTEM AND METHOD OF BRANDING AND CUSTOMIZING A GENERIC MOBILE PHONE
(73) Sprint Communications Company L.P.
(72) URBANEK, Robert E.
(31) 962620
(32) 07.12.2010
(33) United States of America

(51) H04W 4/80
H04W 4/42
(11) EP3729843
(21) EP18833788.5

(47) 26.01.2022
(87) US2018066578
27.06.2019
(22) 19.12.2018
(54) SYSTEMS AND METHODS FOR PAIRING A PLURALITY OF WIRELESS INTERFACES IN A VEHICLE
(73) Safran Passenger Innovations, LLC
(72) GLEDITCH, Matthew
LECOMTE, Romain
CARSWELL, Samuel A.
SIMONE, Brian Andrew
(31) 201762607443 P
(32) 19.12.2017
(33) United States of America

(51) H04W 8/00
H04W 84/18
H04W 88/04
H04W 4/00
(11) EP3364709
(21) EP16863602.5
(47) 26.01.2022
(87) CN2016104949
18.05.2017
(22) 07.11.2016
(54) DATA LINK ESTABLISHMENT METHODS AND APPARATUS
(73) Huawei Technologies Co., Ltd.
(72) LI, Xiaoxian
FANG, Ping
(31) 201510771716
(32) 12.11.2015
(33) China

(51) H04W 8/18
H04W 28/24
H04W 36/00
H04W 36/14
H04W 48/18
H04W 88/06
(11) EP3764689
(21) EP18910013.4
(47) 26.01.2022
(87) CN2018079052
19.09.2019
(22) 14.03.2018
(54) METHOD FOR USING CROSS-SYSTEM POLICY AND USER EQUIPMENT
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(72) TANG, Hai

(51) H04W 12/04
H04W 12/06
H04L 29/06
H04L 9/08
H04L 9/32
H04W 12/12
(11) EP3732910
(21) EP18811870.7
(47) 26.01.2022
(87) EP2018084212
04.07.2019
(22) 10.12.2018
(54) A METHOD FOR UPDATING A ONE-TIME SECRET KEY
(73) Thales Dis France SAS
(72) ANSLOT, Michel
D'SOUZA, Francis
(31) 17306942
(32) 27.12.2017
(33) European Patent Office (EPO)

(51) H04W 12/069
H04L 12/24
H04L 29/06
H04W 84/18
(11) EP3425945
(21) EP18186565.0
(47) 26.01.2022
(22) 17.05.2012
(54) METHODS AND APPARATUS FOR A SELF-ORGANIZED LAYER-2 ENTERPRISE NETWORK ARCHITECTURE
(73) Juniper Networks, Inc.
(72) NANDA, Phalguni
CHOUDHURY, Abhijit
BODDU, Jayabharat
SHETH, Nischal
POGDE, Pranay
SINDHU, Paradeep
MALLYA, Raghavendra
MURPHY, James
(31) 201113252854
(32) 04.10.2011
(33) United States of America

(51) H04W 12/08
H04W 4/021
H04L 29/06
H04W 88/02
(11) EP3337210
(21) EP17204220.2
(47) 26.01.2022
(22) 28.11.2017
(54) METHOD AND SYSTEM FOR PREVENTING CAPTURE OF SENSITIVE INFORMATION BY PROXIMATE DEVICES
(73) BlackBerry Limited
(72) MUKHERJEE, Biswaroop
(31) 201615382010
(32) 16.12.2016
(33) United States of America

(51) H04W 12/12
H04L 29/06
H04L 29/12
H04W 88/08
(11) EP3556130
(21) EP17822727.8
(47) 26.01.2022
(87) FR2017053541
21.06.2018
(22) 13.12.2017
(54) METHOD OF SURVEILLANCE OF A TELECOMMUNICATIONS NETWORK IMPLEMENTED BY AN ACCESS POINT
(73) ORANGE
(72) BOUVET, Bertrand
BOIZARD, Stéphane
(31) 1662696
(32) 16.12.2016
(33) France

(51) H04W 12/30
H04W 12/06
H04L 29/06
(11) EP2827629
(21) EP14183033.1
(47) 26.01.2022
(22) 05.04.2012
(54) Apparatus and methods for storing electronic access clients
(73) Apple Inc.
(72) Haggerty, David
Mclaughlin, Kevin
Von Hauck, Jerrold
(31) 201113093722
201161472109 P
(32) 25.04.2011
05.04.2011
(33) United States of America
United States of America

(51) H04W 16/14
H04W 72/08
H04L 12/28
H04L 5/00
H04W 72/04
(11) EP3732834
(21) EP18829410.2
(47) 26.01.2022
(87) EP2018086815
04.07.2019
(22) 21.12.2018
(54) METHOD, APPARATUS, AND COMPUTER READABLE MEDIUM FOR CHANNEL BONDING
(73) Nokia Technologies Oy
(72) TAO, Tao
LIU, Jianguo
SHEN, Gang
WU, Zhuo
WANG, Jun
LUO, Zhe
(31) 201711479805
(32) 29.12.2017
(33) China

(51) H04W 16/26
H04W 24/02
H04W 12/00
H04W 88/08
(11) EP2387264
(21) EP11165340.8
(47) 26.01.2022
(22) 09.05.2011
(54) Wireless Range Extender
(73) Comcast Cable Communications, LLC
(72) Connelly, Michael
Pedaprolu, Hari Venkatram
(31) 777008
(32) 10.05.2010
(33) United States of America

(51) H04W 16/32
H04W 72/04
(11) EP2824957
(21) EP13757971.0
(47) 26.01.2022
(87) JP2013055919
12.09.2013
(22) 05.03.2013
(54) TERMINAL DEVICE, BASE STATION DEVICE, COMMUNICATION METHOD, AND INTEGRATED CIRCUIT
(73) Sharp Kabushiki Kaisha
(72) SHIMEZAWA, Kazuyuki
IMAMURA, Kimihiko
AIBA, Tatsushi

SUZUKI, Shoichi
(31) 2012048878
(32) 06.03.2012
(33) Japan

(51) H04W 24/08
H04W 92/20
(11) EP3403437
(21) EP16741991.0
(47) 26.01.2022
(87) IB2016053749
20.07.2017
(22) 23.06.2016
(54) CUSTOMIZATION APPROACH FOR COOPERATING NODES INTERACTING THROUGH A STANDARD
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) YU, Dongsheng
STEPHENNE, Alex
LIGHTSTONE, Leonard
(31) 201662278714 P
(32) 14.01.2016
(33) United States of America

(51) H04W 24/10
H04W 52/34
H04W 52/36
(11) EP3657867
(21) EP20151845.3
(47) 26.01.2022
(22) 21.05.2010
(54) REPORTING POWER HEADROOM FOR AGGREGATED CARRIERS
(73) BlackBerry Limited
(72) CAI, Zhijun
HEO, Youn Hyoung
MCBEATH, Sean Michael
EARNSHAW, Andrew Mark
FONG, Mo-Han
(31) 32021110 P
30392010 P
18065209 P
(32) 01.04.2010
12.02.2010
22.05.2009
(33) United States of America
United States of America
United States of America

(51) H04W 24/10
H04W 72/10
H04W 72/04
H04W 4/40
(11) EP3684097
(21) EP17925222.6
(47) 26.01.2022
(87) CN2017101453
21.03.2019
(22) 12.09.2017
(54) TERMINAL IN A V2X SYSTEM DETERMINING A PLURALITY OF LOGICAL CHANNELS FOR DATA TRANSCEIVING
(73) SHENZHEN HEYTAP TECHNOLOGY CORP., LTD.
(72) TANG, Hai

(51) H04W 28/08
H04W 84/04
(11) EP3474596
(21) EP18205408.0
(47) 26.01.2022
(22) 04.12.2013
(54) METHOD FOR MANAGING LOAD BALANCE IN A CELLULAR HETEROGENEOUS NETWORK
(73) Intucell Ltd.
(72) MIZRAHI, Itay
NUSS, Ziv
(31) 201213693482
(32) 04.12.2012
(33) United States of America

(51) H04W 28/12
H04J 1/00
H04W 72/04
H04W 72/12
H04L 1/18
H04L 1/16
(11) EP3295701
(21) EP16791876.2
(47) 26.01.2022
(87) CA2016050554
17.11.2016
(22) 13.05.2016
(54) METHOD AND APPARATUS FOR RESOURCE ALLOCATION FOR HALF DUPLEX FREQUENCY DIVISION DUPLEXING IN A WIRELESS COMMUNICATION SYSTEM
(73) Sierra Wireless, Inc.
(72) VOS, Gustav Gerald
(31) 201562161624 P
(32) 14.05.2015
(33) United States of America

(51) H04W 28/18
H04J 13/00
H04L 5/00
(11) EP3567915
(21) EP18824197.0
(47) 26.01.2022
(87) CN2018093475
03.01.2019
(22) 28.06.2018
(54) WIRELESS COMMUNICATION METHOD, DEVICE AND SYSTEM
(73) Huawei Technologies Co., Ltd.
(72) HU, Yuanzhou
DING, Mengying
DONG, Pengpeng
WANG, Zongjie
(31) 201710527155
(32) 30.06.2017
(33) China

(51) H04W 36/00
H04W 36/30
H04W 36/36
H04W 84/12
H04W 76/22
(11) EP3437370
(21) EP17713305.5
(47) 26.01.2022
(87) EP2017057225
05.10.2017
(22) 27.03.2017
(54) HANDOVER METHOD
(73) British Telecommunications public limited company
(72) FAUS GREGORI, Francisco Jose
(31) 16163457
(32) 31.03.2016
(33) European Patent Office (EPO)

(51) H04W 36/00
H04W 48/16
H04W 48/18
(11) EP2832143
(21) EP13711708.1
(47) 26.01.2022
(87) EP2013056324
03.10.2013
(22) 25.03.2013
(54) ENABLING CDMA2000 SYSTEM SHARING IN LTE
(73) Nokia Solutions and Networks Oy
(72) SCHMIDT, Christopher
KHAN, Javed
KELLEY, Sean
(31) 201313836818
201261616355 P
(32) 15.03.2013
27.03.2012
(33) United States of America
United States of America

(51) H04W 36/08
H04W 36/30
H04W 48/16
H04W 48/20
H04W 48/08
H04W 24/08
(11) EP3346767
(21) EP16842177.4
(47) 26.01.2022
(87) KR2016009311
09.03.2017
(22) 23.08.2016
(54) METHOD AND DEVICE FOR PERFORMING CELL RESELECTION
(73) LG Electronics Inc.
(72) LEE, Youngdae
KIM, Sangwon
(31) 201562211860 P
(32) 30.08.2015
(33) United States of America

(51) H04W 36/12
H04W 36/36
(11) EP3360373
(21) EP16785313.4
(47) 26.01.2022
(87) US2016056393
20.04.2017
(22) 11.10.2016
(54) EVOLVED PACKET DATA GATEWAY (EPDG) RESELECTION
(73) Qualcomm Incorporated
(72) ZHAO, Suli
FACCIN, Stefano
(31) 201615289925
201562239951 P
(32) 10.10.2016
11.10.2015
(33) United States of America
United States of America

(51) H04W 36/14
H04W 60/00
H04W 88/16
(11) EP3820199
(21) EP19208157.8
(47) 26.01.2022
(22) 08.11.2019

(54) COMMUNICATION SYSTEM AND METHOD FOR OPERATING A COMMUNICATION SYSTEM
(73) NTT DOCOMO, INC.
(72) ISHIKAWA, Hiroshi
THAKOLSRI, Srisakul
GUERZONI, Riccardo
MUTIKAINEN, Jari
SAMA, Malla Reddy
MINOKUCHI, Atsushi
AL-BAKRI, Ban
(51) H04W 36/32
H04W 8/08
(11) EP3737159
(21) EP20183151.8
(47) 26.01.2022
(22) 26.03.2013
(54) METHOD AND DEVICE FOR PRESERVING MOBILITY INFORMATION IN TERMINAL STATE TRANSITION AND EFFECTIVELY RE-ACCESSING IN HETEROGENEOUS CELL NETWORK IN MOBILE COMMUNICATION SYSTEM
(73) Samsung Electronics Co., Ltd.
(72) KIM, Sang Bum
KIM, Soeng Hun
KIM, Woo Seong
(31) 201261615856 P
(32) 26.03.2012
(33) United States of America

(51) H04W 48/06
H04W 48/08
H04W 76/00
(11) EP3619956
(21) EP18728740.4
(47) 26.01.2022
(87) IB2018053062
08.11.2018
(22) 02.05.2018
(54) ACCESS CATEGORY AND ESTABLISHMENT CAUSE
(73) Telefonaktiebolaget LM Ericsson (Publ)
(72) LINDHEIMER, Christofer
WALLENTIN, Pontus
(31) 201762502136 P
(32) 05.05.2017
(33) United States of America

(51) H04W 48/10
(11) EP3383095
(21) EP16880821.0
(47) 26.01.2022
(87) CN2016106982
06.07.2017
(22) 23.11.2016
(54) MULTI-USER ACCESS METHOD AND DEVICE
(73) Huawei Technologies Co., Ltd.
(72) LI, Yanchun
HAN, Xiao
LI, Yunbo
(31) 201511033337
(32) 31.12.2015
(33) China

(51) H04W 48/14
H04W 48/18
(11) EP3235299
(21) EP15830804.9
(47) 26.01.2022
(87) FR2015053580
23.06.2016
(22) 17.12.2015
(54) EVALUATING THE QUALITY OF COMMUNICATION IN A WIRELESS NETWORK
(73) ORANGE
(72) EL AYOUBI, Salah Eddine
BEN JEMAA, Sana
(31) 1462766
(32) 18.12.2014
(33) France

(51) H04W 48/16
H04L 5/00
H04W 48/12
(11) EP3611971
(21) EP19175058.7
(47) 26.01.2022
(22) 01.11.2012
(54) METHOD AND APPARATUS FOR DETERMINING CONTROL CHANNEL SEARCH SPACE
(73) Huawei Technologies Co., Ltd.
(72) TANG, Zhenfei

(51) H04W 48/16
H04L 12/28
H04L 29/06
H04W 88/06
H04W 12/06
H04W 48/18
H04W 92/02
(11) EP3139665
(21) EP16179583.6
(47) 26.01.2022
(22) 09.08.2004
(54) APPARATUS, AND ASSOCIATED METHOD, FOR FACILITATING COMMUNICATIONS BY A MOBILE NODE IN A MULTIPLE NETWORK RADIO COMMUNICATION SYSTEM HAVING INTERWORKING CAPABILITY
(73) BlackBerry Limited
(72) BUCKLEY, Adrian

(51) H04W 48/16
H04W 8/26
H04W 48/10
H04L 29/08
H04W 8/00
H04W 84/12
H04W 48/08
H04W 64/00
(11) EP3544336
(21) EP19175131.2
(47) 26.01.2022
(22) 02.05.2013
(54) INFORMATION TRANSMISSION
(73) Advanced New Technologies Co., Ltd.
(72) ZHANG, Jie
CAO, Kai
(31) 201210135219
(32) 02.05.2012
(33) China

(51) H04W 48/16
H04W 52/02
H04W 56/00
H04W 74/00
H04W 48/12
H04W 74/08
(11) EP3456133
(21) EP16724436.7
(47) 26.01.2022
(87) FI2016050302
16.11.2017
(22) 10.05.2016
(54) RELIABLE OR LOW LATENCY NETWORK MANAGEMENT
(73) Nokia Technologies Oy
(72) KOSKELA, Timo
VAN PHAN, Vinh
HAKOLA, Sami-Jukka
TURTINEN, Samuli

(51) H04W 48/16
H04W 72/04
H04B 7/06
H04W 72/02
H04W 72/08
H04B 7/0456
(11) EP3412068
(21) EP17705541.5
(47) 26.01.2022
(87) US2017016517
10.08.2017
(22) 03.02.2017
(54) BEAMFORMING COMMON CHANNELS IN 5G NEW RADIO
(73) NTT DOCOMO, INC.
(72) KAKISHIMA, Yuichi
NAGATA, Satoshi
NA, Chongning
(31) 201662290812 P
(32) 03.02.2016
(33) United States of America

(51) H04W 48/20
H04W 48/14
H04W 84/12
(11) EP3567937
(21) EP19175588.3
(47) 26.01.2022
(22) 09.07.2014
(54) NETWORK ARCHITECTURE ENABLING A MOBILE TERMINAL TO ROAM INTO A WIRELESS LOCAL AREA NETWORK
(73) ORANGE
(72) CHEN, Xiaobao
(31) 13305973
(32) 09.07.2013
(33) European Patent Office (EPO)

(51) H04W 52/02
(11) EP3108701
(21) EP14711772.5
(47) 26.01.2022
(87) EP2014055764
24.09.2015
(22) 21.03.2014
(54) METHODS AND NETWORK NODES IN A WIRELESS COMMUNICATION NETWORK
(73) Huawei Technologies Co., Ltd.
(72) SOLDATI, Pablo

(51) H04W 52/02
H04W 28/02
H04W 76/28
H04W 52/24
H04W 52/26

(11) EP3462790
(21) EP18206758.7
(47) 26.01.2022
(22) 10.04.2015
(54) TECHNIQUES FOR MANAGING POWER CONSUMPTION OF A MOBILE DEVICE
(73) QUALCOMM Incorporated
(72) SMEE, John Edward
JI, Tingfang
BURKE, Joseph Patrick
GOROKHOV, Alexei Yurievitch
GAAL, Peter
ANG, Peter Pui Lok
HORN, Gavin Bernard
HOWARD, Michael Alexander
BHUSHAN, Naga
SORIAGA, Joseph Binamira
MUKKAVILLI, Krishna Kiran
COOPER, Rotem
(31) 201514636734
201461992862 P
(32) 03.03.2015
13.05.2014
(33) United States of America
United States of America

(51) H04W 52/02
H04W 28/04
H04W 72/04
H04L 1/18
H04W 76/28
(11) EP3379868
(21) EP16866094.2
(47) 26.01.2022
(87) JP2016081313
26.05.2017
(22) 21.10.2016
(54) TERMINAL DEVICE, COMMUNICATION METHOD, AND INTEGRATED CIRCUIT
(73) Sharp Kabushiki Kaisha
(72) YOKOMAKURA, Kazunari
AIBA, Tatsushi
SUZUKI, Shoichi
UEMURA, Katsunari
YAMADA, Shohei
(31) 2015227483
(32) 20.11.2015
(33) Japan

(51) H04W 52/02
H04W 48/16
(11) EP2853119
(21) EP13794755.2
(47) 26.01.2022
(87) KR2013004480
28.11.2013
(22) 22.05.2013
(54) A METHOD AND SYSTEM FOR MINIMIZING POWER CONSUMPTION OF USER EQUIPMENT DURING CELL DETECTION
(73) Samsung Electronics Co., Ltd.
(72) VAN LIESHOUT, Gert Jan
JAMADAGNI, Satish Nanjunda Swamy
INGALE, Mangesh Abhimanyu
(31) 2036CH2012
(32) 22.05.2012
(33) India

(51) H04W 52/02
H04W 52/28
(11) EP3687227
(21) EP18856597.2
(47) 26.01.2022
(87) CN2018106254
21.03.2019
(22) 18.09.2018
(54) METHOD FOR ADJUSTING TRANSMISSION POWER OF TERMINAL, MOBILE TERMINAL AND STORAGE DEVICE
(73) Huizhou TCL Mobile Communication Co., Ltd
(72) FANG, Yan
WU, Zhaoyun
ZHOU, Weilong
WANG, Huixin
HE, Zilong
(31) 201710846737
(32) 18.09.2017
(33) China

(51) H04W 52/22
H04W 52/44
H04W 52/34
H04W 52/14
H04W 52/10
(11) EP3573379
(21) EP19185367.0
(47) 26.01.2022
(22) 01.09.2011
(54) POWER CONTROL ON A DEACTIVATED COMPONENT CARRIER
(73) QUALCOMM Incorporated
(72) DAMNJANOVIC, Aleksandar
CHEN, Wanshi
DAMNJANOVIC, Jelena M.
MONTOJO, Juan
GAAL, Peter
(31) 201113223095
37933710 P
(32) 31.08.2011
01.09.2010
(33) United States of America
United States of America

(51) H04W 52/24
H04W 92/10
H04W 52/26
H04L 5/00
H04W 52/10
H04W 52/14
H04W 52/34
(11) EP3661273
(21) EP17918906.3
(47) 26.01.2022
(87) CN2017094754
31.01.2019
(22) 27.07.2017
(54) METHOD AND DEVICE FOR CONTROLLING INTERFERENCE
(73) Beijing Xiaomi Mobile Software Co., Ltd.
Beijing University of Post and Telecommunications
(72) HONG, Wei
LIU, Chunhua
LI, Yong
ZHU, Yajun

(51) H04W 52/32
H04W 52/16
H04W 24/10
H04W 28/08
H04W 52/14
H04W 72/04
H04W 88/08
(11) EP2232928
(21) EP09701005.2
(47) 26.01.2022
(87) US2009000061
16.07.2009
(22) 07.01.2009
(54) METHOD OF DYNAMIC OVERHEAD CHANNEL POWER ALLOCATION
(73) Alcatel-Lucent USA Inc.
(72) MONTALTO, Joseph
GANDHI, Asif, Dawoodi
(31) 970151
(32) 07.01.2008
(33) United States of America

(51) H04W 52/36
H04W 52/40
H04W 52/34
(11) EP3282778
(21) EP17194711.2
(47) 26.01.2022
(22) 23.05.2014
(54) UPLINK POWER HEADROOM MANAGEMENT FOR CONNECTIVITY WITH LOGICALLY SEPARATE CELLS
(73) QUALCOMM Incorporated
(72) GHEORGHIU, Valentin Alexandru
VAJAPEYAM, Madhavan Srinivasan
JI, Tingfang
DAMNJANOVIC, Jelena
GAAL, Peter
CHEN, Wanshi
(31) 201314042467
201361826923 P
(32) 30.09.2013
23.05.2013
(33) United States of America
United States of America

(51) H04W 52/44
H04W 52/38
H04W 52/30
H04W 52/24
H04W 52/14
(11) EP3567940
(21) EP18171855.2
(47) 26.01.2022
(22) 11.05.2018
(54) TECHNIQUES FOR CONTROLLING SPECIFIC ABSORPTION RATE OF RADIO ENERGY TRANSMISSION
(73) Apple Inc.
(72) ELAD, Yuval
RESHEF, Ehud
D'ANGELO, Wilfrid
KAIDAR, Oren
BALABAN, Nir

(51) H04W 56/00
(11) EP3214878
(21) EP15854423.9
(47) 26.01.2022
(87) KR2015011656
06.05.2016
(22) 02.11.2015

(54) METHOD BY WHICH TERMINAL TRANSMITS SYNCHRONIZATION SIGNAL FOR DEVICE-TO-DEVICE (D2D) OPERATION IN WIRELESS COMMUNICATION SYSTEM, AND TERMINAL USING METHOD
(73) LG Electronics Inc.
(72) JUNG, Sunghoon
SEO, Hanbyul
(31) 201462073046 P
(32) 31.10.2014
(33) United States of America
(51) H04W 56/00
H04L 5/00
(11) EP3576470
(21) EP18772373.9
(47) 26.01.2022
(87) CN2018080291
27.09.2018
(22) 23.03.2018
(54) METHOD AND APPARATUS FOR TRANSMITTING A SIGNAL
(73) Huawei Technologies Co., Ltd.
(72) LUO, Jun
LIU, Jin
YUAN, Pu
(31) 201710182587
(32) 24.03.2017
(33) China
(51) H04W 56/00
H04W 74/08
(11) EP3664528
(21) EP20154125.7
(47) 26.01.2022
(22) 24.12.2015
(54) CONTENTION FREE PHYSICAL UPLINK SHARED CONTROL CHANNEL (PUSCH) TRANSMISSION USING LISTEN BEFORE TALK
(73) Intel IP Corporation
(72) HAN, Seunghee
IBARS CASAS, Christian
BHORKAR, Abhijeet
(31) 201562161587 P
(32) 14.05.2015
(33) United States of America
(51) H04W 60/02
H04W 48/18
(11) EP3643095
(21) EP18822948.8
(47) 26.01.2022
(87) KR2018007215
03.01.2019
(22) 26.06.2018
(54) METHOD FOR PERFORMING RLAU PROCEDURE AND DEVICE SUPPORTING THE SAME
(73) LG Electronics Inc.
(72) BYUN, Bokyung
LEE, Youngdae
(31) 201762525217 P
(32) 27.06.2017
(33) United States of America
(51) H04W 64/00
G01S 5/02
(11) EP3047692
(21) EP14846321.9
(47) 26.01.2022
(87) US2014055513
26.03.2015
(22) 12.09.2014
(54) DEVICES AND METHODS FOR SENDING OR RECEIVING ASSISTANCE DATA
(73) Apple Inc.
(72) HORVAT, Michael
ISA, Kenan N.
CHOI, Hyung-Nam
(31) 201361879014 P
(32) 17.09.2013
(33) United States of America
(51) H04W 64/00
G01S 5/02
G01S 11/06
(11) EP3297345
(21) EP17190763.7
(47) 26.01.2022
(22) 13.09.2017
(54) WIRELESS LOCAL AREA NETWORK BASED POSITIONING METHOD AND DEVICE
(73) Beijing Xiaomi Mobile Software Co., Ltd.
(72) LIN, Li
ZHAO, Ziqiang
LIU, Jia
(31) 201610828809
(32) 18.09.2016
(33) China
(51) H04W 64/00
H04W 4/02
(11) EP3167556
(21) EP14811863.1
(47) 26.01.2022
(87) EP2014077342
14.01.2016
(22) 11.12.2014
(54) METHODS AND APPARATUS OF OPERATING USER EQUIPMENT IN A WIRELESS COMMUNICATION NETWORK
(73) Sony Group Corporation
(72) YING, Zhinong
BENGTSSON, Erik
(31) 201414328773
(32) 11.07.2014
(33) United States of America
(51) H04W 68/02
H04B 7/0408
H04W 16/28
(11) EP3618520
(21) EP18794552.2
(47) 26.01.2022
(87) CN2018085547
08.11.2018
(22) 04.05.2018
(54) PAGING METHOD AND APPARATUS
(73) Huawei Technologies Co., Ltd.
(72) LIU, Jianqin
HE, Chuanfeng
(31) 201710309839
(32) 04.05.2017
(33) China
(51) H04W 72/04
(11) EP3456123
(21) EP17723362.4
(47) 26.01.2022
(87) EP2017061397
16.11.2017
(22) 11.05.2017
(54) ALLOCATION OF RESOURCES TO A WIRELESS DEVICE
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) LARSSON, Daniel
FALCONETTI, Laetitia
ANDGART, Niklas
LI, Jingya
(31) 201662335941 P
(32) 13.05.2016
(33) United States of America
(51) H04W 72/04
(11) EP3592030
(21) EP18772112.1
(47) 26.01.2022
(87) CN2018080251
27.09.2018
(22) 23.03.2018
(54) METHOD FOR SENDING AND RECEIVING CONTROL INFORMATION, AND RELATED DEVICE
(73) Huawei Technologies Co., Ltd.
(72) MA, Ruixiang
LYU, Yongxia
(31) 201710179923
(32) 23.03.2017
(33) China
(51) H04W 72/04
(11) EP3637917
(21) EP18823147.6
(47) 26.01.2022
(87) CN2018088408
03.01.2019
(22) 25.05.2018
(54) DATA PROCESSING METHOD, TERMINAL AND BASE STATION
(73) Huawei Technologies Co., Ltd.
(72) ZHANG, Hongping
ZENG, Qinghai
(31) 201710524141
(32) 30.06.2017
(33) China
(51) H04W 72/04
H04B 7/0413
H04L 27/26
H04L 5/00
(11) EP3577980
(21) EP18748060.3
(47) 26.01.2022
(87) CN2018075242
09.08.2018
(22) 05.02.2018
(54) LOW PEAK-TO-AVERAGE POWER RATIO PRECODED REFERENCE SIGNAL DESIGN FOR MULTIPLE-INPUT, MULTIPLE-OUTPUT TRANSMISSIONS
(73) QUALCOMM Incorporated
(72) XU, Hao
GAAL, Peter
SORIAGA, Joseph Binamira
HUANG, Yi
JI, Tingfang
AKKARAKARAN, Sony
ZENG, Wei
WANG, Renqiu

PARK, Se Yong
MANOLAKOS, Alexandros
ZHANG, Yu
(31) PCT/CN2017/072948
(32) 06.02.2017
(33) World Intellectual Property Office (WIPO)

(51) H04W 72/04
H04B 7/0491
H04B 7/06
(11) EP3616449
(21) EP18716326.6
(47) 26.01.2022
(87) GB2018050799
01.11.2018
(22) 27.03.2018
(54) AN APPARATUS AND METHOD FOR IMPROVING CONNECTIVITY FOR ITEMS OF USER EQUIPMENT IN A WIRELESS NETWORK
(73) Airspan IP Holdco LLC
(72) SENIOR, Paul Nicholas
(31) 201715499027
(32) 27.04.2017
(33) United States of America

(51) H04W 72/04
H04L 5/00
H04W 72/12
(11) EP3550915
(21) EP18847182.5
(47) 26.01.2022
(87) CN2018076358
15.08.2019
(22) 11.02.2018
(54) METHOD AND DEVICE FOR TRANSMITTING UPLINK CONTROL INFORMATION
(73) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(72) LIN, Yanan

(51) H04W 72/04
H04W 16/14
H04L 1/18
H04L 5/00
H04W 72/02
H04W 74/08
(11) EP3616450
(21) EP18723071.9
(47) 26.01.2022
(87) IB2018052949
01.11.2018
(22) 27.04.2018
(54) MULTIPLE STARTING POSITIONS FOR UPLINK TRANSMISSION ON UNLICENSED SPECTRUM
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) YANG, Yu
CHENG, Jung-Fu
KARAKI, Reem
(31) 201762491399 P
(32) 28.04.2017
(33) United States of America

(51) H04W 72/04
H04W 56/00
(11) EP3070857
(21) EP14862002.4
(47) 26.01.2022
(87) KR2014010757
21.05.2015
(22) 10.11.2014
(54) METHOD AND APPARATUS FOR DEVICE-TO-DEVICE COMMUNICATION IN PARTIAL NETWORK ENVIRONMENT
(73) Samsung Electronics Co., Ltd.
(72) RYU, Hyunseok
LIM, Chiwoo
PARK, Seunghoon
(31) 20130139173
(32) 15.11.2013
(33) Korea (Republic)

(51) H04W 72/04
H04W 72/12
(11) EP3643128
(21) EP18738090.2
(47) 26.01.2022
(87) US2018037615
27.12.2018
(22) 14.06.2018
(54) MULTIPLEXING CLUSTERED CONTROL INFORMATION AND DATA
(73) QUALCOMM Incorporated
(72) SUN, Jing
LUO, Tao
LEE, Heechoon
JOHN WILSON, Makesh Pravin
(31) 201816007919
201762524432 P
(32) 13.06.2018
23.06.2017
(33) United States of America
United States of America

(51) H04W 72/04
H04W 74/08
H04W 74/00
H04W 88/02
H04W 88/08
(11) EP3603272
(21) EP18781058.5
(47) 26.01.2022
(87) CN2018078344
11.10.2018
(22) 07.03.2018
(54) FLEXIBLE GRANT-FREE RESOURCE CONFIGURATION SIGNALING
(73) Huawei Technologies Co., Ltd.
(72) CAO, Yu
MA, Jianglei
ZHANG, Liqing
(31) 201815868657
201762482671 P
(32) 11.01.2018
06.04.2017
(33) United States of America
United States of America

(51) H04W 72/04
H04W 92/18
H04W 76/14
H04W 8/00
(11) EP3122129
(21) EP15764785.0
(47) 26.01.2022
(87) JP2015058033
24.09.2015
(22) 18.03.2015
(54) TERMINAL DEVICE, BASE STATION DEVICE, AND COMMUNICATION METHOD
(73) Sharp Kabushiki Kaisha
(72) SUZUKI Shoichi
YOKOMAKURA Kazunari
AIBA Tatsushi
IMAMURA Kimihiko
TAKAHASHI Hiroki
(31) 2014058164
(32) 20.03.2014
(33) Japan

(51) H04W 72/10
(11) EP3342232
(21) EP15907644.7
(47) 26.01.2022
(87) CN2015093974
11.05.2017
(22) 06.11.2015
(54) CSI REPORTING IN A WIRELESS COMMUNICATION SYSTEM
(73) Lenovo Innovations Limited (Hong Kong)
(72) SHEN, Zukang

(51) H04W 72/12
(11) EP3285534
(21) EP15892109.8
(47) 26.01.2022
(87) CN2015079066
24.11.2016
(22) 15.05.2015
(54) TERMINAL, BASE STATION AND SCHEDULING REQUEST TRANSMISSION METHOD
(73) Huawei Technologies Co., Ltd.
(72) QUAN, Wei
LI, Bingzhao
ZHANG, Jian
XU, Bin
MIAO, Jinhua
YANG, Xiaodong

(51) H04W 72/12
H04W 76/15
(11) EP3531776
(21) EP17868362.9
(47) 26.01.2022
(87) CN2017107954
11.05.2018
(22) 27.10.2017
(54) RESOURCE ALLOCATION METHOD AND TERMINAL
(73) Huawei Technologies Co., Ltd.
(72) LIU, Xing
LOU, Chong
ZHANG, Jian
(31) 201610936349
(32) 01.11.2016
(33) China

(51) H04W 74/00
H04W 74/08
H04W 28/02
H04W 84/12
H04W 80/02
(11) EP3512289
(21) EP17849113.0
(47) 26.01.2022
(87) KR2017009841
15.03.2018
(22) 07.09.2017
(54) WIRELESS COMMUNICATION METHOD USING ENHANCED DISTRIBUTED CHANNEL ACCESS,

AND WIRELESS COMMUNICATION TERMINAL USING SAME
(73) SK Telecom Co., Ltd.
Wilus Institute of Standards and Technology Inc.
(72) KO, Geonjung
KWAK, Jinsam
AHN, Woojin
SON, Juhyung
(31) 20170022227
20160147189
20160122488
20160117898
20160116965
20160116877
20160114822
(32) 20.02.2017
06.11.2016
23.09.2016
13.09.2016
12.09.2016
10.09.2016
07.09.2016
(33) Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)

(51) H04W 74/08
(11) EP3481130
(21) EP18213667.1
(47) 26.01.2022
(22) 07.05.2012
(54) USER EQUIPMENT AND METHOD FOR MANAGING BACKOFF TIME IN THE USER EQUIPMENT
(73) Samsung Electronics Co., Ltd.
(72) KIM, Soeng Hun
JEONG, Kyeong In
JANG, Jae Hyuk
KIM, Sang Bum
(31) 20110080710
20110042983
(32) 12.08.2011
06.05.2011
(33) Korea (Republic)
Korea (Republic)

(51) H04W 74/08
(11) EP3759991
(21) EP19712069.4
(47) 26.01.2022
(87) US2019020026
06.09.2019
(22) 28.02.2019
(54) BANDWIDTH PART (BWP) CONFIGURATION FOR SUBBAND ACCESS IN NEW RADIO-UNLICENSED (NR-U)
(73) QUALCOMM Incorporated
(72) KADOUS, Tamer
ZHANG, Xiaoxia
BHATTAD, Kapil
SUN, Jing
(31) 201841007756
201916287893
(32) 01.03.2018
27.02.2019
(33) India
United States of America

(51) H04W 74/08
H04B 7/00
(11) EP3723439
(21) EP20177032.8
(47) 26.01.2022
(22) 12.05.2017
(54) RACH DESIGN FOR BEAMFORMED COMMUNICATIONS
(73) QUALCOMM Incorporated
(72) SADIQ, Bilal
ISLAM, Muhammad Nazmul
AKKARAKARAN, Sony
LUO, Tao
(31) 201715433738
201662348797 P
(32) 15.02.2017
10.06.2016
(33) United States of America
United States of America

(51) H04W 74/08
H04W 4/70
(11) EP3018962
(21) EP13891420.5
(47) 26.01.2022
(87) CN2013081471
19.02.2015
(22) 14.08.2013
(54) METHOD FOR RANDOMLY ACCESSING A NETWORK, AND TERMINAL
(73) Huawei Technologies Co., Ltd.
(72) ZHANG, Xiangdong
NAN, Fang
YU, Zheng

(51) H04W 74/08
H04W 72/04
H04J 13/10
H04L 25/03
(11) EP3641471
(21) EP17921019.0
(47) 26.01.2022
(87) CN2017104608
14.02.2019
(22) 29.09.2017
(54) METHOD AND DEVICE FOR TRANSMITTING RANDOM ACCESS PREAMBLE
(73) Huawei Technologies Co., Ltd.
(72) JIN, Zhe
JI, Tong
LUO, Zhihu
(31) PCT/CN2017/096936
(32) 10.08.2017
(33) World Intellectual Property Office (WIPO)

(51) H04W 74/08
H04W 72/04
H04W 76/14
(11) EP3376815
(21) EP16874591.7
(47) 26.01.2022
(87) CN2016098368
22.06.2017
(22) 07.09.2016
(54) DEVICE-TO-DEVICE COMMUNICATION METHOD, ACCESS POINT, AND FIRST STATION
(73) Huawei Technologies Co., Ltd.
(72) ZHU, Jun
QIAO, Dengyu
SU, Hongjia
LIN, Yingpei
(31) 201510957695
(32) 18.12.2015
(33) China

(51) H04W 76/00
H04W 76/11
H04W 76/20
(11) EP3627958
(21) EP18817319.9
(47) 26.01.2022
(87) CN2018090813
20.12.2018
(22) 12.06.2018
(54) COMMUNICATION METHOD AND DEVICE AND RADIO ACCESS NETWORK
(73) Huawei Technologies Co., Ltd.
(72) WANG, Man
PENG, Wenjie
LUO, Haiyan
(31) 201710436650
(32) 12.06.2017
(33) China

(51) H04W 76/10
H04W 52/02
H04W 52/38
H04W 72/12
H04W 72/00
H04W 52/00
H04W 52/36
(11) EP3491882
(21) EP17746610.9
(47) 26.01.2022
(87) US2017043360
01.02.2018
(22) 21.07.2017
(54) CO-EXISTENCE NETWORK OF SIDELINK AND MISSION CRITICAL MOBILE DEVICES
(73) Qualcomm Incorporated
(72) GUPTA, Piyush
LI, Chong
LI, Junyi
(31) 201715590786
201662367306 P
(32) 09.05.2017
27.07.2016
(33) United States of America
United States of America

(51) H04W 76/10
H04W 84/10
H04W 84/12
H04L 29/08
(11) EP3737195
(21) EP18903017.4
(47) 26.01.2022
(87) CN2018115363
01.08.2019
(22) 14.11.2018

(54) NETWORK ARCHITECTURE AND INFORMATION INTERACTION METHOD AND DEVICE
(73) HUAWEI TECHNOLOGIES CO., LTD.
(72) SHUAI, Yanglai
ZHOU, Yu
(31) 201810065499
(32) 23.01.2018
(33) China
(51) H04W 76/12
H04W 76/18
H04W 76/11
H04W 88/08
H04W 92/12
(11) EP3685624
(21) EP18862848.1
(47) 26.01.2022
(87) KR2018011560
04.04.2019
(22) 28.09.2018
(54) METHODS AND DEVICES FOR NETWORK ACCESS
(73) Samsung Electronics Co., Ltd.
(72) XU, Lixiang
KE, Xiaowan
WANG, Weiwei
WANG, Hong
(31) 201810029454
201711120988
201710932365
201710898572
201710905999
(32) 11.01.2018
13.11.2017
09.10.2017
28.09.2017
28.09.2017
(33) China
China
China
China
China
(51) H04W 76/12
H04W 88/14
H04W 92/24
(11) EP3510829
(21) EP17772798.9
(47) 26.01.2022
(87) US2017050420
15.03.2018
(22) 07.09.2017
(54) BYPASSING EXTERNAL PACKET DATA NETWORKS IN MOBILE-TO-MOBILE COMMUNICATION
(73) Alcatel-Lucent USA Inc.
(72) ZHANG, Yangling
(31) 201615258463
(32) 07.09.2016
(33) United States of America
(51) H04W 76/15
H04L 1/18
H04L 5/00
H04L 27/26
(11) EP3628137
(21) EP18802566.2
(47) 26.01.2022
(87) CN2018086714
22.11.2018
(22) 14.05.2018
(54) VIRTUAL CARRIER AND VIRTUAL CONNECTION AGGREGATION
(73) Huawei Technologies Co., Ltd.
(72) GONG, Zhengwei
BALIGH, Mohammadhadi
MAAREF, Amine
FARMANBAR, Hamidreza
(31) 201762506462 P
(32) 15.05.2017
(33) United States of America
(51) H04W 76/19
H04W 76/11
(11) EP3585130
(21) EP18767923.8
(47) 26.01.2022
(87) CN2018076821
20.09.2018
(22) 14.02.2018
(54) METHODS AND APPARATUSES FOR RE-ESTABLISHING SESSION
(73) Datang Mobile Communications Equipment Co., Ltd.
(72) ZHANG, Juan
(31) 201710159751
(32) 17.03.2017
(33) China
(51) H04W 76/28
H04W 12/12
H04L 29/06
H04W 68/00
(11) EP3750373
(21) EP18705192.5
(47) 26.01.2022
(87) SE2018050097
08.08.2019
(22) 05.02.2018
(54) METHOD, RADIO ACCESS NETWORK NODE, COMPUTER PROGRAM AND CARRIER FOR HANDLING A WIRELESS DEVICE CAPABLE OF ALTERNATING BETWEEN IDLE AND ACTIVE STATE
(73) TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
(72) GONZALEZ ESCUDERO, Alberto
(51) H04W 88/06
H04W 72/12
H04B 1/00
(11) EP3416454
(21) EP17753520.0
(47) 26.01.2022
(87) KR2017001798
24.08.2017
(22) 17.02.2017
(54) ELECTRONIC DEVICE AND OPERATION METHOD THEREFOR
(73) Samsung Electronics Co., Ltd.
(72) HAN, Seong-Won
LIM, Sang-Soon
BAN, Dae-Hyun
PARK, Woo-Jin
LEE, Kyu-Haeng
(31) 20160019177
(32) 18.02.2016
(33) Korea (Republic)
(51) H04W 88/06
H04W 76/10
H04W 76/30
(11) EP3582581
(21) EP17902337.9
(47) 26.01.2022
(87) CN2017077385
27.09.2018
(22) 20.03.2017
(54) SERVICE COMMUNICATION METHOD, ACCESS NETWORK DEVICE AND SYSTEM
(73) Huawei Technologies Co., Ltd.
(72) CHONG, Weiwei
XIN, Yang
WU, Xiaobo
(51) H05B 6/62
F25D 11/02
A23L 3/365
(11) EP3617620
(21) EP18814417.4
(47) 26.01.2022
(87) CN2018089860
13.12.2018
(22) 05.06.2018
(54) DEFROSTING METHOD FOR DEFROSTING APPARATUS
(73) Haier Smart Home Co., Ltd.
(72) XU, Tong
DAI, Jianbin
WANG, Ming
ZHANG, Kui
ZHU, Xiaobing
LI, Peng
(31) 201710418935
(32) 06.06.2017
(33) China
(51) H05B 39/02
H05B 45/10
H05B 45/3575
H05B 47/10
H02M 1/32
H02M 5/257
(11) EP3716734
(21) EP20174934.8
(47) 26.01.2022
(22) 18.05.2012
(54) A CONTROL CIRCUIT FOR A PHASE-CUT DIMMER
(73) Silergy Semiconductor (Hong Kong) Limited
(72) Blom, Anton
(51) H05B 45/325
H05B 45/20
H05B 45/46
(11) EP3446546
(21) EP17715475.4
(47) 26.01.2022
(87) EP2017057988
26.10.2017
(22) 04.04.2017
(54) A METHOD OF CONTROLLING A LIGHTING ARRANGEMENT AND A LIGHTING CONTROL CIRCUIT
(73) Signify Holding B.V.
(72) VAN DER HAM, Marcel
DE JONG, Lambertus, Adrianus, Marinus
ZIJLMAN, Theo, Gerrit
VAN KAATHOVEN, Dirk, Jan
(31) 16166560

(32) 22.04.2016
(33) European Patent Office (EPO)

(51) H05B 47/10
H05B 47/19
(11) EP3726939
(21) EP20166939.7
(47) 26.01.2022
(22) 31.03.2020
(54) COMMISSIONING OF ELECTRICAL DEVICES IN AN AUTOMATED HOME ENVIRONMENT
(73) Niko NV
(72) WILLAERT, Stephane
(31) 201905263
(32) 19.04.2019
(33) Belgium

(51) H05H 7/18
B01J 3/03
(11) EP3240371
(21) EP17168449.1
(47) 26.01.2022
(22) 27.04.2017
(54) COMPONENT FOR ASSEMBLING A VACUUM CHAMBER AND METHOD FOR FORMING THE ASSEMBLY COMPONENT
(73) Commissariat à l'Energie Atomique et aux Energies Alternatives
(72) TOUSSAINT, Patrice
(31) 1653829
(32) 28.04.2016
(33) France

(51) H05K 1/18
(11) EP2656700
(21) EP11799281.8
(47) 26.01.2022
(87) EP2011072833
28.06.2012
(22) 14.12.2011
(54) CIRCUIT FOR A LIGHT EMITTING COMPONENT AND METHOD OF MANUFACTURING THE SAME
(73) Linxens Holding
(72) DE MAQUILLE, Yannick
LECHLEITER, François
WELSCH, Pierre-Aloïs
(31) PCT/IB2010/003506
(32) 22.12.2010
(33) World Intellectual Property Office (WIPO)

(51) H05K 1/18
H01L 23/00
H05K 3/46
(11) EP2592915
(21) EP11803570.8
(47) 26.01.2022
(87) JP2011065336
12.01.2012
(22) 05.07.2011
(54) MANUFACTURING METHOD FOR LAMINATED WIRING BOARD
(73) Fujikura, Ltd.
(72) OKAMOTO, Masahiro
(31) 2010153738
(32) 06.07.2010
(33) Japan

(51) H05K 3/34
H01P 5/08
H01R 9/05
H01R 24/50
H01R 12/53
H05K 1/11
(11) EP3482459
(21) EP17736940.2
(47) 26.01.2022
(87) EP2017067069
11.01.2018
(22) 07.07.2017
(54) COAXIAL CABLE INSTALLATION ON THICK PRINTED CIRCUIT BOARD
(73) Hirschmann Car Communication GmbH
(72) STAHL, Rainer
GELMAN, Alexander
HEILEMANN, Ingo
(31) 102016212492
(32) 08.07.2016
(33) Germany

(51) H05K 5/04
H04M 1/02
H01Q 1/24
F21V 8/00
G02B 6/00
H01Q 1/52
(11) EP3493660
(21) EP17854451.6
(47) 26.01.2022
(87) CN2017086631
05.04.2018
(22) 31.05.2017
(54) METAL HOUSING OF MOBILE DEVICE AND MANUFACTURING METHOD THEREFOR, AND MOBILE DEVICE
(73) Huawei Technologies Co., Ltd.
(72) HUANG, Kaiwen
LV, Wangchun
WANG, Yongxiang
SHI, Wenming
(31) 201610867934
(32) 28.09.2016
(33) China

(51) H05K 5/06
F21V 33/00
(11) EP3552467
(21) EP17879060.6
(47) 26.01.2022
(87) US2017065066
14.06.2018
(22) 07.12.2017
(54) ILLUMINATED VIEWING SYSTEMS FOR ENCLOSURES
(73) Eaton Intelligent Power Limited
(72) MANAHAN, Joseph, Michael
JAYAWARDENA, Adikaramge, Asiri
SCARLATA, Andrew, Francis
TAYLOR, Jesse, Wade
(31) 201662431525 P
(32) 08.12.2016
(33) United States of America

(51) H05K 7/14
(11) EP3512317
(21) EP18200196.6
(47) 26.01.2022
(22) 12.10.2018
(54) ELECTRICAL SYSTEMS HAVING INTERLEAVED DC INTERCONNECTS
(73) Garrett Transportation I Inc.
(72) Mohammadpour, Ali
Pu, Louis
Love, Andrew
Guidry, Mike
(31) 201715783695
(32) 13.10.2017
(33) United States of America

(51) H05K 7/14
(11) EP3503699
(21) EP18212421.4
(47) 26.01.2022
(22) 13.12.2018
(54) INTERCONNECTION SYSTEM FOR ELECTRONIC CARDS AND COMPUTER CALCULATION CABINET COMPRISING SUCH A SYSTEM
(73) Bull SAS
(72) BROWN, Paul
(31) 1763108
(32) 22.12.2017
(33) France

(51) H05K 7/14
H02G 5/00
(11) EP3654742
(21) EP18206250.5
(47) 26.01.2022
(22) 14.11.2018
(54) METHOD FOR MANUFACTURING A BUSBAR AND SUCH A BUSBAR
(73) Rogers BV
(72) SHI, Wei
TANG, Liang

(51) H05K 7/20
(11) EP3270674
(21) EP16767695.6
(47) 26.01.2022
(87) CN2016076378
29.09.2016
(22) 15.03.2016
(54) HEAT DISSIPATION APPARATUS, RADIO REMOTE UNIT, BASE STATION UNIT, COMMUNICATION BASE STATION AND SYSTEM
(73) Huawei Technologies Co., Ltd.
(72) TSOI, Vadim
HONG, Yuping
YANG, Kaixiang
TANG, Yun
SHI, Jian
(31) 201510130461
(32) 24.03.2015
(33) China

(51) H05K 7/20
(11) EP3579673
(21) EP17898733.5
(47) 26.01.2022
(87) CN2017095153
07.09.2018
(22) 31.07.2017
(54) THERMALLY-CONDUCTIVE COMPONENT AND MOBILE TERMINAL
(73) Huawei Technologies Co., Ltd.
(72) JIANG, Huawen
JIN, Linfang
(31) 201710121682
(32) 02.03.2017
(33) China

(51) H05K 7/20
H05K 9/00
(11) EP3644699
(21) EP19204046.7
(47) 26.01.2022
(22) 18.10.2019
(54) PRINTED CIRCUIT BOARD, ELECTRONIC DEVICE AND HEAT CONDUCTION SHEET
(73) Seiko Epson Corporation
Kitagawa Industries Co., Ltd.
(72) OMORI, Toshiyuki
ITO, Masaaki
MATSUZAKI, Toru
SAITO, Masahiro
KAWAGUCHI, Yasuhiro
MITSUYA, Kensuke
(31) 2018201227
(32) 25.10.2018
(33) Japan

(51) H05K 13/00
H05K 13/08
H05K 13/04
(11) EP3606312
(21) EP17902896.4
(47) 26.01.2022
(87) JP2017013339
04.10.2018
(22) 30.03.2017
(54) MOUNTING SYSTEM AND REPORTING CONTROL DEVICE
(73) Fuji Corporation
(72) NOZAWA, Mizuho

(51) H05K 13/02
H01L 21/677
H01L 21/683
H01L 23/00
(11) EP2914079
(21) EP12887836.0
(47) 26.01.2022
(87) JP2012077902
08.05.2014
(22) 29.10.2012
(54) COMPONENT SUPPLY APPARATUS
(73) FUJI Corporation
(72) OHASHI Hiroyasu
MURAI Masaki
SHIMIZU Toshinori
YAMASAKI Toshihiko

(51) H05K 13/04
H01L 21/52
H05K 13/08
(11) EP3691433
(21) EP18883276.0
(47) 26.01.2022
(87) JP2018041886
06.06.2019
(22) 13.11.2018
(54) ELECTRONIC COMPONENT MOUNTING DEVICE
(73) Asahi Engineering K.K.
(72) ISHII, Masaaki
(31) 2017229650
(32) 29.11.2017
(33) Japan

(51) H05K 13/08
H05K 13/04
(11) EP3397041
(21) EP15911319.0
(47) 26.01.2022
(87) JP2015085961
29.06.2017
(22) 24.12.2015
(54) INFORMATION PROCESSING DEVICE, MOUNTING DEVICE, INFORMATION PROCESSING METHOD, AND COMPONENT HOLDING TOOL
(73) Fuji Corporation
(72) NAGAISHI, Takuya

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) A01B 76/00
A01B 79/00
A01G 9/24
G06F 3/033
G06Q 10/10
H04L 29/06
H04L 29/08
A01G 22/00
G06Q 10/06
G06Q 50/02
(11) EP3439451
(21) EP17779647.1
(22) 04.04.2017
(54) MODULAR FARM CONTROL AND MONITORING SYSTEM
(73) Freight Farms, Inc.
(72) MCNAMARA, Brad
SEAMAN, Kyle
FRIEDMAN, Jon
(74) dr. ir. G.J.C. Verdijck c.s.
(31) 201662317895 P
(32) 04.04.2016
(33) United States of America
(47) 29.09.2021

(51) A01C 17/00
(11) EP3165065
(21) EP16401078.7
(22) 02.11.2016
(54) METHOD FOR DETERMINING A DISTRIBUTION PATTERN OF A DISTRIBUTOR
(73) Amazonen-Werke H. Dreyer SE & Co. KG
(72) Kielhorn, Arnd
Resch, Rainer
Dreyer, Justus
(31) 102015119072
(32) 06.11.2015
(33) Germany
(47) 08.12.2021

(51) A01D 87/12
B65B 69/00
(11) EP3763195
(21) EP20184710.0
(22) 08.07.2020
(54) ASSEMBLY OF A BALE CLAMP AND A CUTTING DEVICE
(73) TVH Parts Holding nv
(72) ANTONIOTTI, Daniele
(74) dr. W.A.H.M. Van Borm
(31) 201900011592
(32) 12.07.2019
(33) Italy
(47) 24.11.2021

(51) A01G 3/00
B02C 18/14
B02C 18/22
(11) EP2668839
(21) EP13170127.8
(22) 31.05.2013
(54) SHREDDING SYSTEM
(73) Feltron NV
(72) Lietaer, Frederic
(74) dr. W.A.H.M. Van Borm
(31) 201200371
(32) 01.06.2012
(33) Belgium
(47) 01.12.2021

(51) A01G 13/02
A01G 29/00
(11) EP2651206
(21) EP11808962.2
(22) 14.12.2011
(54) A PLANT IRRIGATING SYSTEM AND A METHOD
(73) Holland Technology B.V.
(72) HOFF, Petrus Mattheus Maria
(74) drs. W.H.P. Derks
(31) 2007534
2006384
2005869
(32) 04.10.2011
14.03.2011
16.12.2010
(33) Netherlands
Netherlands
Netherlands
(47) 27.10.2021

(51) A01G 18/20
A01G 18/62
A01G 18/70
(11) EP3570661
(21) EP18705728.6
(22) 19.01.2018
(54) PROCEDURE FOR THE CULTIVATION OF MUSHROOMS
(73) Centro Servizi e Tecnologie Ambientali S.r.l.
(72) TIRELLI, Gianfranco
(74) dr. A. Ellens c.s.
(31) 201700006102
(32) 20.01.2017
(33) Italy
(47) 13.10.2021

(51) A01G 33/00
(11) EP3525577
(21) EP17794438.6
(22) 12.10.2017
(54) SEEDING DEVICE FOR SEAWEED
(73) IHC Holland IE B.V.
(72) KERKVLIET, Cornelis Joannes
GONÇALVES CASTRO, Maria Bernadete
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 2017612
(32) 12.10.2016
(33) Netherlands
(47) 24.11.2021

(51) A01K 1/015
A63C 19/04
E01C 13/02
E01C 5/18
E01C 13/08
(11) EP3632203
(21) EP19200932.2
(22) 01.10.2019
(54) A COVERING FOR A STABLE FLOOR
(73) Lia Holding B.V.
(72) ROELEVINK, Yke Lourens
(74) J.M.H. Duyver Iic.
(31) 2021743
(32) 01.10.2018
(33) Netherlands
(47) 01.12.2021

(51) A01K 1/12
A01J 5/017
(11) EP3145295
(21) EP15723947.6
(22) 20.05.2015
(54) ARM DEVICE FOR A MILKING-PARLOUR ARRANGEMENT FOR THE AUTOMATIC MILKING OF DAIRY ANIMALS, DIVIDER FOR A MILKING-PARLOUR ARRANGEMENT, AND MILKING-PARLOUR ARRANGEMENT
(73) GEA Farm Technologies GmbH
(72) KRONE, Otto
(74) ir. A. Ferguson
(31) 102014107124
(32) 20.05.2014
(33) Germany
(47) 13.10.2021

(51) A01K 5/01
(11) EP3484281
(21) EP17743072.5
(22) 14.07.2017
(54) APPARATUS AND METHOD FOR FEEDING AN ANIMAL
(73) Haygain Ltd
(72) BRUGGINK, Anne-Jan
JAMES, Rebecca
(74) ir. H.A. Witmans c.s.
(31) 201612318
(32) 15.07.2016
(33) United Kingdom
(47) 06.10.2021

(51) A01K 31/00
A01K 31/17
(11) EP3672401
(21) EP18758600.3
(22) 21.08.2018
(54) POULTRY RETAINING SYSTEM WHICH CAN BE PLUGGED TOGETHER
(73) Kühlmann, Franz Josef
(72) Kühlmann, Franz Josef
(74) ir. J.C. Volmer c.s.

(31) 202017105052 U
(32) 23.08.2017
(33) Germany
(47) 06.10.2021

(51) A01M 7/00
(11) EP3520612
(21) EP19155432.8
(22) 05.02.2019
(54) METHOD FOR APPLICATION OF A LIQUID TO BE SPRAYED
(73) Amazonen-Werke H. Dreyer SE & Co. KG
(72) KALKMANN, Helmke
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 102018102586
(32) 06.02.2018
(33) Germany
(47) 13.10.2021

(51) A01M 7/00
A01C 23/04
(11) EP3258779
(21) EP16714969.9
(22) 19.02.2016
(54) SPRAYER DEVICE FOR DISTRIBUTING LOTS OF DIFFERENT LIQUID SOLUTIONS COMPRISING SEVERAL INGREDIENTS
(73) Proharam, René
(72) Proharam, René
(74) ir. W.J.J.M. Kempes
(31) 1502156
1551494
(32) 12.10.2015
20.02.2015
(33) France
France
(47) 22.09.2021

(51) A01N 43/08
A01N 43/12
A01N 43/16
A01N 43/30
C07D 207/38
C07D 307/60
C07D 407/12
C07D 409/12
A01N 43/36
(11) EP3512843
(21) EP17761507.7
(22) 05.09.2017
(54) PLANT GROWTH REGULATOR COMPOUNDS
(73) Syngenta Participations AG
(72) SCREPANTI, Claudio
LUMBROSO, Alexandre, Franco, Jean, Camille
RENDINE, Stefano
DE MESMAEKER, Alain
(74) ir. W.J.J.M. Kempes
(31) 201615544
(32) 13.09.2016
(33) United Kingdom
(47) 20.10.2021

(51) A21B 1/24
(11) EP3518679
(21) EP17786961.7
(22) 28.09.2017
(54) OVEN COOKING MODULE FOR BAKERY, DANISH PASTRY AND SIMILAR PRODUCTS AND LINEAR TUNNEL OVEN COMPRISING AT LEAST ONE SUCH MODULE
(73) MECATHERM
(72) SERGENT, Olivier
(74) dr. W.A.H.M. Van Borm
(31) 1659431
(32) 30.09.2016
(33) France
(47) 27.10.2021

(51) A21B 3/04
A21B 1/26
A23B 4/044
A21B 1/48
A23B 4/052
(11) EP3641549
(21) EP18731875.3
(22) 25.06.2018
(54) OVEN WITH SMOKE SUPPLY AND METHOD TO OPERATE SUCH AN OVEN
(73) GEA Food Solutions Bakel B.V.
(72) VERBRUGGEN, Paulus Johannes
HAEX, Jacobus Petrus Hubertus
(74) ir. W.J.J.M. Kempes
(31) 17177589
(32) 23.06.2017
(33) European Patent Office (EPO)
(47) 06.10.2021

(51) A21C 11/00
A21C 11/02
(11) EP3653057
(21) EP19203086.4
(22) 14.10.2019
(54) PUNCHING DEVICE FOR GENERATING MULTIPLE ROWS OF DOUGH RINGS
(73) BackNet GmbH
(72) Meier, Alexander
Fiedler, Rudolf
(74) ir. J.C. Volmer c.s.
(31) 102018219437
(32) 14.11.2018
(33) Germany
(47) 24.11.2021

(51) A21D 2/18
A23L 33/20
A21D 13/06
(11) EP3285589
(21) EP16731371.7
(22) 22.04.2016
(54) FOOD PRODUCTS WITH REDUCED SUGAR CONTENT
(73) Koninklijke Peijnenburg B.V.
(72) DE HARDER, Jacobus Rikkert
NOORT, Martijn Willem-Jan
RENZETTI, Stefano
JURGENS, Albertus
(74) ir. H.A. Witmans c.s.
(31) 15165118
(32) 24.04.2015
(33) European Patent Office (EPO)
(47) 17.11.2021

(51) A22B 3/00
(11) EP3550981
(21) EP17822800.3
(22) 07.12.2017
(54) A METHOD OF PERFORMING A PROCEDURE ON AN ANIMAL INVOLVING STUNNING AND/OR KILLING SAID ANIMAL
(73) Kiezebrink, Harm
(72) Kiezebrink, Harm
(74) J.M.H. Duyver Iic.
(31) 2017948
(32) 07.12.2016
(33) Netherlands
(47) 06.10.2021

(51) A22B 3/00
A22B 3/02
(11) EP3478079
(21) EP17821387.2
(22) 30.06.2017
(54) STUNNER
(73) Jarvis Products Corporation
(72) JONES, Arthur
JONES, Trent
(74) ir. H.A. Witmans c.s.
(31) 201715637587
201715485346
201715447316
201715422885
201762453579 P
201615254546
201615211524
201662357566 P
(32) 29.06.2017
12.04.2017
02.03.2017
02.02.2017
02.02.2017
01.09.2016
15.07.2016
01.07.2016
(33) United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
(47) 13.10.2021

(51) A22C 11/00
B65B 19/34
B65G 47/90
(11) EP3613292
(21) EP19189113.4
(22) 30.07.2019
(54) GRIPPER DEVICE FOR SIMULTANEOUSLY GRIPPING SEVERAL ELONGATED FLEXIBLE OBJECTS, IN PARTICULAR SAUSAGES, HANDLING DEVICE AND METHOD
(73) Singer & Sohn GmbH
(72) Koller, Dieter
Singer, Manfred
(74) ir. W.J.J.M. Kempes
(31) 102018120502
(32) 22.08.2018
(33) Germany
(47) 06.10.2021

(51) A22C 21/00
A22C 21/06

(11) EP3747269
(21) EP20176406.5
(22) 26.05.2020
(54) AN APPARATUS FOR CARRYING OUT AN OPERATION ON SLAUGHTERED POULTRY OR ON A PART OF SLAUGHTERED POULTRY
(73) Meyn Food Processing Technology B.V.
(72) NAGEL, Bas
(74) mr. ir. J. van Breda c.s.
(31) 2023211
(32) 27.05.2019
(33) Netherlands
(47) 01.12.2021

(51) A23B 5/005
A23J 1/08
(11) EP3410864
(21) EP17747903.7
(22) 12.01.2017
(54) DEFLAVORED EGG PROTEIN ISOLATE, PRODUCTS MADE WITH PROTEIN ISOLATES
(73) Rembrandt Enterprises, Inc.
(72) CEPEDA JIMENEZ, Jihan
MCKIBBIN, Mindi
(74) drs. C.M.A. Quintelier
(31) 201715403921
201662342588 P
201662291811 P
(32) 11.01.2017
27.05.2016
05.02.2016
(33) United States of America
United States of America
United States of America
(47) 08.12.2021

(51) A23D 9/00
A23G 1/36
C11C 3/10
C11C 1/08
A21D 13/80
C11B 7/00
A21D 13/00
(11) EP3347444
(21) EP16760726.6
(22) 06.09.2016
(54) FAT COMPOSITIONS
(73) Fuji Oil Europe
(72) ECHIM, Camelia
VANDERLINDEN, Bart
CLEENEWERCK, Bernard
VERBEECK, Sabrina
(74) J.M.H. Duyver lic.
(31) PCT/EP2015/070330
(32) 07.09.2015
(33) World Intellectual Property Office (WIPO)
(47) 29.09.2021

(51) A23F 5/02
A23F 5/04
A23F 5/06
A23F 5/24
(11) EP3691460
(21) EP18778447.5
(22) 24.09.2018
(54) METHOD FOR PRODUCING ROAST COFFEE BEANS
(73) Société des Produits Nestlé S.A.
(72) BEL-RHLID, Rachid
MOCCAND, Cyril
SYBESMA, Wilbert
REH, Christoph, Thomas
SAUVAGEAT, Jean-Luc
PALZER, Stefan
(74) ir. F.A. Geurts c.s.
(31) 17194683
(32) 04.10.2017
(33) European Patent Office (EPO)
(47) 20.10.2021

(51) A23G 1/40
A23G 1/54
A23L 33/24
(11) EP3310182
(21) EP16732201.5
(22) 17.06.2016
(54) LOW CALORIE FOOD COMPOSITIONS
(73) Mars, Incorporated
(72) VAN DAMME, Isabella Bernarda Maximilienne
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201510775
(32) 19.06.2015
(33) United Kingdom
(47) 29.09.2021

(51) A23L 3/3418
A23B 7/148
F25D 17/04
F25D 11/00
F25D 17/06
F25D 29/00
(11) EP3258192
(21) EP16754882.5
(22) 15.01.2016
(54) REFRIGERATION DEVICE FOR CONTAINER
(73) Daikin Industries, Ltd.
(72) YOKOHARA, Kazuma
KAMEI, Noritaka
NAKANO, Masataka
FUJIMOTO, Yuusuke
TANAKA, Naohiro
OZATO, Atsushi
(74) ir. W.J.J.M. Kempes
(31) 2015039260
(32) 27.02.2015
(33) Japan
(47) 10.11.2021

(51) A23P 20/12
A23P 20/13
(11) EP3727041
(21) EP18845318.7
(22) 21.12.2018
(54) COATING OF FOOD PRODUCTS WITH A PARTICULATE COATING MATERIAL
(73) Marel Further Processing B.V.
(72) KUIJPERS, Mathias Marcellus
VAN ZOELEN, Martinus Johannes Willebrordus
VAN DER STRAATEN, Wilhelmus Johannes Jacobus Maria
MEULENDIJKS, Johannes Martinus
(74) ir. J.C. Volmer c.s.
(31) 2020168
(32) 22.12.2017
(33) Netherlands
(47) 27.10.2021

(51) A24C 5/47
A24C 5/32
(11) EP3141134
(21) EP16182141.8
(22) 01.08.2016
(54) TRANSFER DRUM FOR THE TOBACCO PROCESSING INDUSTRY
(73) Hauni Maschinenbau GmbH
(72) HOFMANN, Nils
JONAT, Ilmar
VON BABKA-GOSTOMSKI, Philipp
BÖTTCHER, Maik
(74) ir. F.A. Geurts c.s.
(31) 102015113820
(32) 20.08.2015
(33) Germany
(47) 29.09.2021

(51) A24D 1/10
(11) EP3727049
(21) EP18829761.8
(22) 12.12.2018
(54) SMOKING ARTICLE COMPRISING EXTINGUISHER ELEMENT
(73) Philip Morris Products S.A.
(72) KADIRIC, Alen
JORDIL, Yves
(74) dr. W.A.H.M. Van Borm
(31) 17208218
(32) 18.12.2017
(33) European Patent Office (EPO)
(47) 17.11.2021

(51) A24D 1/20
A24F 40/46
A24F 40/10
A24F 40/20
(11) EP3462933
(21) EP17725641.9
(22) 30.05.2017
(54) HEAT DIFFUSER FOR AN AEROSOL-GENERATING SYSTEM
(73) Philip Morris Products S.A.
(72) THORENS, Michel
(74) dr. W.A.H.M. Van Borm
(31) 16172294
(32) 31.05.2016
(33) European Patent Office (EPO)
(47) 10.11.2021

(51) A24D 3/04
A24D 1/02
(11) EP3316710
(21) EP16734631.1
(22) 30.06.2016
(54) SMOKING ARTICLE WITH IMPROVED EXTINGUISHMENT
(73) Philip Morris Products S.A.
(72) KADIRIC, Alen
(74) dr. W.A.H.M. Van Borm
(31) 15174662
(32) 30.06.2015
(33) European Patent Office (EPO)
(47) 17.11.2021

(51) A24F 40/40
A61M 15/06
H05B 1/02
H02J 7/00
A61M 11/04
(11) EP3504990
(21) EP19157439.1
(22) 23.12.2014

(54) VAPORIZATION DEVICE SYSTEMS AND METHODS
(73) Juul Labs International Inc.
(72) Monsees, James
Hibmacronan, Christopher Nicholas
Hatton, Cole
Morenstein, Joshua
Bowen, Adam
Atkins, Ariel
Lomeli, Kevin
Christensen, Steven
(74) J.M.H. Duyver lic.
(31) 201461937755 P
201461936593 P
201361920225 P
(32) 10.02.2014
06.02.2014
23.12.2013
(33) United States of America
United States of America
United States of America
(47) 24.11.2021

(51) A24F 40/42
A24F 40/50
A61M 15/06
A61M 11/04
A61M 11/00
(11) EP3496791
(21) EP17749577.7
(22) 28.07.2017
(54) METHODS AND APPARATUSES FOR CONCENTRATE VAPORIZATION
(73) PAX Labs, Inc.
(72) GOULD, Alexander, J.
BOWEN, Adam
ATKINS, Ariel
LOMELI, Kevin
(74) J.M.H. Duyver lic.
(31) 201662372241 P
(32) 08.08.2016
(33) United States of America
(47) 24.11.2021

(51) A24F 40/44
A24F 40/10
(11) EP3307096
(21) EP16727512.2
(22) 08.06.2016
(54) CARTRIDGE FOR AEROSOL-GENERATING SYSTEM
(73) Philip Morris Products S.A.
(72) BATISTA, Rui Nuno
(74) dr. W.A.H.M. Van Borm
(31) 15171951
(32) 12.06.2015
(33) European Patent Office (EPO)
(47) 24.11.2021

(51) A24F 40/465
A24F 40/485
A24F 40/20
H05B 6/36
(11) EP3664634
(21) EP18746725.3
(22) 06.08.2018
(54) AEROSOL-GENERATING DEVICE WITH DETACHABLY INSERTABLE HEATING COMPARTMENT
(73) Philip Morris Products S.A.
(72) ROSSOLL, Andreas Michael
STURA, Enrico
MIRONOV, Oleg
REEVELL, Tony
FURSA, Oleg
COURBAT, Jerome Christian
(74) dr. W.A.H.M. Van Borm
(31) 17185550
(32) 09.08.2017
(33) European Patent Office (EPO)
(47) 17.11.2021

(51) A24F 40/50
A24F 40/57
A61M 11/04
A61M 15/06
A61M 16/00
H05B 1/02
A24F 40/44
(11) EP3563698
(21) EP17907788.8
(22) 24.04.2017
(54) AEROSOL GENERATION APPARATUS
(73) Japan Tobacco Inc.
(72) FUJITA, Hajime
NAKANO, Takuma
(74) dr. ir. F.M. van Bouwelen
(47) 24.11.2021

(51) A24F 40/51
A61M 15/06
G01F 23/24
G01F 23/26
A24F 40/53
A61M 11/04
A24F 40/10
A24F 40/465
(11) EP3413734
(21) EP17705083.8
(22) 09.02.2017
(54) AEROSOL-GENERATING SYSTEM WITH ELECTRODES
(73) Philip Morris Products S.A.
(72) ZINOVIK, Ihar Nikolaevich
REEVELL, Tony
MIRONOV, Oleg
COURBAT, Jerome Christian
(74) dr. W.A.H.M. Van Borm
(31) 16155565
(32) 12.02.2016
(33) European Patent Office (EPO)
(47) 24.11.2021

(51) A41D 13/00
A41D 1/06
A62B 35/00
A41D 3/00
(11) EP3704978
(21) EP20161851.9
(22) 09.03.2020
(54) PROTECTIVE CLOTHING
(73) Heinemann, Nicole
(72) Heinemann, Nicole
(74) ir. H.J.G. Lips c.s.
(31) 501912019
(32) 08.03.2019
(33) Austria
(47) 24.11.2021

(51) A41D 13/01
A41D 27/08
F21V 33/00
(11) EP3250063
(21) EP15823838.6
(22) 30.12.2015
(54) TEXTILE OR FABRIC WITH ATTACHED FLEXIBLE AND CONFORMABLE LIGHT SOURCE APPARATUS
(73) MAS Innovation (Private) Limited
(72) ATHAUDA, Tharindu
MADIRAJU, Kireety
(74) ir. H.A. Witmans c.s.
(31) 201501297
(32) 27.01.2015
(33) United Kingdom
(47) 13.10.2021

(51) A42B 3/28
A42B 3/04
A41D 13/11
A62B 18/04
A41D 13/002
A62B 18/00
A62B 17/04
(11) EP3399881
(21) EP17736494.0
(22) 07.01.2017
(54) DONNABLE BARRIER DEVICES, SYSTEMS, AND METHODS WITH TOUCHLESS CONTROL
(73) Thi Total Healthcare Innovation Gmbh
(72) GRUBER, Paul
NICKL, Richard
ROSATI, Giorgio
CARGILLE, David Lee
(74) J.M.H. Duyver lic.
(31) 201662275995 P
(32) 07.01.2016
(33) United States of America
(47) 24.11.2021

(51) A43B 7/14
A43B 7/28
A43B 17/02
(11) EP3609360
(21) EP18717365.3
(22) 12.04.2018
(54) FOOTBED FOR HEEL SHOES
(73) Black Forest Footwear Technologies GmbH
(72) BAUM, Hans Peter
BAUM, Ute Ingrid
BAUM, Hans Christof Reinhold
(74) ir. H.A. Witmans c.s.
(31) 102017108095
(32) 13.04.2017
(33) Germany
(47) 15.09.2021

(51) A45C 11/04
(11) EP3641585
(21) EP18814709.4
(22) 12.06.2018
(54) SPECTACLE CASE
(73) Sabie, Razvan
(72) Sabie, Razvan
(74) ir. W.J.J.M. Kempes
(31) 201700419
(32) 23.06.2017
(33) Romania
(47) 06.10.2021

(51) A47B 47/02
A47B 96/02
(11) EP3813590

(21) EP20788850.4
(22) 01.09.2020
(54) LOCKER UNIT HAVING A SECURITY FEATURE
(73) Rackit Ltd
(72) FERGUSON, James
(74) J.M.H. Duyver lic.
(31) 201913630
(32) 20.09.2019
(33) United Kingdom
(47) 29.09.2021

(51) A47B 91/02
(11) EP3738472
(21) EP20174477.8
(22) 13.05.2020
(54) ADJUSTING TOOL FOR ADJUSTING PARTS OF ESPECIALLY FEET FOR FURNITURE
(73) Kunststoff Kommanditgesellschaft Nehl & Co
(72) SCHNITTKE, Jürgen
(74) ir. J.C. Volmer c.s.
(31) 202019105005 U
202019102684 U
(32) 10.09.2019
13.05.2019
(33) Germany
Germany
(47) 15.09.2021

(51) A47C 1/032
(11) EP3528664
(21) EP17790728.4
(22) 17.10.2017
(54) SYNCHRONOUS CHAIR MECHANISM AND CHAIR WITH SUCH
(73) Vitra AG
(72) BOCK, Hermann
SCHNEIDER, Thomas
KAMBER, Thomas
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 16194443
(32) 18.10.2016
(33) European Patent Office (EPO)
(47) 22.09.2021

(51) A47F 3/00
A47F 3/04
A47F 10/06
(11) EP3243411
(21) EP17177669.3
(22) 02.07.2009
(54) DISPLAY UNIT
(73) Fri-Jado B.V.
(72) VAN DORST, Godefridus Wilhelmus
(74) ir. R. Wijnstra
(31) 2001749
77578 P
(32) 02.07.2008
02.07.2008
(33) Netherlands
United States of America
(47) 06.10.2021

(51) A47F 3/04
(11) EP3541248
(21) EP13826580.6
(22) 19.12.2013
(54) FRUITS AND VEGETABLES REFRIGERATOR JUICER
(73) Giannopoulos, Nikolaos
(72) Giannopoulos, Nikolaos
(74) dr. A. Krebs
(31) 20130100032
(32) 22.01.2013
(33) Greece
(47) 06.10.2021

(51) A47G 19/02
A47G 23/03
A47G 19/10
(11) EP3169196
(21) EP15822655.5
(22) 20.01.2015
(54) SURFACE CONTACT SELF-SEALING INTEGRATED TABLEWEAR AND DINING MAT
(73) Laurain, Lindsey
(72) Laurain, Lindsey
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201414333682
(32) 17.07.2014
(33) United States of America
(47) 29.09.2021

(51) A47G 23/06
(11) EP3419480
(21) EP17757083.5
(22) 21.02.2017
(54) AUTOMATED CONCRETE STRUCTURAL MEMBER FABRICATION SYSTEM AND METHOD
(73) Garfinkel, Erik
Macmillan, John
(72) MacMillan, John
Garfinkel, Erik
(74) ir. H.A. Witmans c.s.
(31) 201615051967
(32) 24.02.2016
(33) United States of America
(47) 15.12.2021

(51) A47J 31/36
(11) EP3316743
(21) EP16733961.3
(22) 01.07.2016
(54) COMPACT INTEGRATION OF CAPSULE HANDLING DEVICE
(73) Société des Produits Nestlé S.A.
(72) CAHEN, Antoine
GRANGER, Eric
MAZZA, Pietro
(74) ir. F.A. Geurts c.s.
(31) 15175091
(32) 02.07.2015
(33) European Patent Office (EPO)
(47) 29.09.2021

(51) A47J 31/44
(11) EP3316745
(21) EP16734224.5
(22) 22.06.2016
(54) FLUID FOAMING MACHINE
(73) Société des Produits Nestlé S.A.
(72) CAMIER, Nicolas
JARISCH, Christian
(74) ir. F.A. Geurts c.s.
(31) 15175199
(32) 03.07.2015
(33) European Patent Office (EPO)
(47) 13.10.2021

(51) A47J 31/52
A47J 36/32
A47J 43/07
(11) EP3721758
(21) EP20164367.3
(22) 19.03.2020
(54) HOUSEHOLD APPLIANCE
(73) SEB S.A.
(72) CALLENS, Edouard
SAUNIER, Christophe
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 1903414
(32) 29.03.2019
(33) France
(47) 17.11.2021

(51) A47J 37/06
A47J 37/07
(11) EP3334317
(21) EP16748307.2
(22) 09.08.2016
(54) HIGH-TEMPERATURE GRILLING APPLIANCE
(73) IBK Industriebedarf GmbH
(72) KLEINSCHMIDT, Dieter
(74) J.M.H. Duyver lic.
(31) 102015113172
(32) 10.08.2015
(33) Germany
(47) 29.09.2021

(51) A47J 37/12
(11) EP3403552
(21) EP18172351.1
(22) 15.05.2018
(54) HEATING ELEMENT CONTROLLER FOR OIL BASED FRYER
(73) Henny Penny Corporation
(72) Florkey, Edward J.
Fritz, Jacob Dean
Pereira, Adrian
Gogel, Mark
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201762507945 P
(32) 18.05.2017
(33) United States of America
(47) 27.10.2021

(51) A47J 41/00
(11) EP3525638
(21) EP17792263.0
(22) 17.10.2017
(54) INSULATING CONTAINER WITH MAGNETIC CAP
(73) YETI Coolers, LLC
(72) ABANTE, Edward
TOLMAN, John Alan
NICHOLS, Steve Charles
(74) dr. W.A.H.M. Van Borm
(31) 201762508793 P
201662409242 P
(32) 19.05.2017
17.10.2016
(33) United States of America
United States of America
(47) 17.11.2021

(51) A47K 11/10
A46B 5/00
A46B 9/02
(11) EP2965677
(21) EP15176124.4
(22) 09.07.2015

(54) CLEANING DEVICES WITH SELECTIVELY FLEXIBLE OR RIGID HANDLES
(73) Unger Marketing International, LLC
(72) Triunfo, John A.
Smith, Robert F.
Harrington, William
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201514791531
201462022852 P
(32) 06.07.2015
10.07.2014
(33) United States of America
United States of America
(47) 06.10.2021

(51) A47L 5/30
A47L 11/24
A47L 11/40
(11) EP3231340
(21) EP17165931.1
(22) 11.04.2017
(54) AUTONOMOUS CLEANING DEVICE
(73) Beijing Rockrobo Technology Co. Ltd.
Beijing Xiaomi Mobile Software Co., Ltd.
(72) XIA, Yongfeng
LI, Xing
WANG, Zitao
LI, Zhijun
(74) J.M.H. Duyver lic.
(31) 201610232698
(32) 14.04.2016
(33) China
(47) 17.11.2021

(51) A47L 5/36
E01H 1/08
(11) EP3298942
(21) EP17192855.9
(22) 25.09.2017
(54) BACKPACK BLOWERVAC COLLECTION BAG
(73) Black & Decker Inc.
(72) Wheeler, David
Poole, Brian
Hess, James
Miller, David
Potter, Christine
(74) J.M.H. Duyver lic.
(31) 201715712345
201662399868 P
(32) 22.09.2017
26.09.2016
(33) United States of America
United States of America
(47) 24.11.2021

(51) A47L 7/00
A47L 9/24
(11) EP3232890
(21) EP15813054.2
(22) 17.12.2015
(54) SUCTION HOSE CONNECTING PIECE
(73) Festool GmbH
(72) MAJER, Michael
(74) ir. H.A. Witmans c.s.
(31) 102014119244
(32) 19.12.2014
(33) Germany
(47) 08.12.2021

(51) A47L 11/22
A47L 11/26
(11) EP3818920
(21) EP20205079.5
(22) 31.10.2020
(54) SURFACE CLEANING APPARATUS AND METHOD OF CONTROLLING FLOW RATE FOR A SURFACE CLEANING APPARATUS
(73) Bissell Inc.
(72) Pruiett, Jason W.
(74) J.M.H. Duyver lic.
(31) 201962931244 P
(32) 06.11.2019
(33) United States of America
(47) 01.12.2021

(51) A47L 11/40
A47L 11/30
B25G 1/04
B25G 3/38
B25G 1/06
(11) EP3721777
(21) EP20173141.1
(22) 02.07.2018
(54) SURFACES MACHINING APPARATUS
(73) Hawig Maschinenfabrik Gesellschaft mit beschränkter Haftung
(74) ir. F.A. Geurts c.s.
(31) 102017212873
(32) 26.07.2017
(33) Germany
(47) 03.11.2021

(51) A47L 13/16
A47L 13/20
(11) EP3367869
(21) EP16787839.6
(22) 26.10.2016
(54) CLEANING TEXTILE AND METHODE OF APPLICATION AND FLAT MOP COMPRISING SAID CLEANING TEXTILE
(73) Carl Freudenberg KG
(72) WINTERLING, Friedel
WALTER, Susanne
(74) ir. W.J.J.M. Kempes
(31) 102015014069
(32) 30.10.2015
(33) Germany
(47) 29.09.2021

(51) A61B 1/00
(11) EP3612077
(21) EP18723231.9
(22) 20.04.2018
(54) FLEXIBLE-RIGID HYBRID ENDOSCOPE AND INSTRUMENT ATTACHMENTS
(73) Resnent, LLC
(72) NOYES, Willard S.
(74) J.M.H. Duyver lic.
(31) 201862633540 P
201762487903 P
(32) 21.02.2018
20.04.2017
(33) United States of America
United States of America
(47) 17.11.2021

(51) A61B 1/05
A61B 1/07
(11) EP2675335
(21) EP12747511.9
(22) 16.02.2012
(54) OPTICAL COUPLER FOR AN ENDOSCOPE
(73) The General Hospital Corporation
(72) TITUS, James, Sidney
(74) J.M.H. Duyver lic.
(31) 201161443546 P
(32) 16.02.2011
(33) United States of America
(47) 29.09.2021

(51) A61B 1/05
A61B 1/267
(11) EP3491995
(21) EP17781150.2
(22) 27.07.2017
(54) CONVERTER DEVICE FOR LARYNGOSCOPY
(73) Fundación Para la Investigación del Hospital Universitario y Politécnico La Fe de la Comunidad Valenciana
AIMPLAS - Asociación de Investigación de Materiales Plásticos y Conexas
(72) RUEDAS ABARCA, Vicente
ROVIRA SORIANO, Lucas
(74) J.M.H. Duyver lic.
(31) 201630976 U
(32) 28.07.2016
(33) Spain
(47) 06.10.2021

(51) A61B 3/10
A61B 5/00
(11) EP2991539
(21) EP14792343.7
(22) 05.05.2014
(54) EYELID ILLUMINATION SYSTEMS AND METHODS FOR IMAGING MEIBOMIAN GLANDS FOR MEIBOMIAN GLAND ANALYSIS
(73) Tearscience, Inc.
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201461987982 P
201361904562 P
201361819143 P
201361819201 P
(32) 02.05.2014
15.11.2013
03.05.2013
03.05.2013
(33) United States of America
United States of America
United States of America
United States of America
(47) 03.11.2021

(51) A61B 5/00
A61B 3/12
A61B 5/378
A61B 5/398
(11) EP3280320
(21) EP16726939.8
(22) 06.04.2016
(54) DEVICE AND METHOD FOR NON-INVASIVE RECORDING OF THE ERG AND VEP RESPONSE OF AN EYE
(73) Costruzioni Strumenti Oftalmici C.S.O. S.r.l.
(72) BAGLINI, Claudio
(74) ir. A.R. Aalbers

(31) FI20150103
(32) 07.04.2015
(33) Italy
(47) 17.11.2021

(51) A61B 5/00
A61B 5/026
A61B 5/02
G02B 27/48
(11) EP2663222
(21) EP12701039.5
(22) 09.01.2012
(54) METHODS AND SYSTEMS FOR NON-INVASIVE DETERMINATION OF BLOOD FLOW DISTRIBUTION USING SPECKLE IMAGING TECHNIQUES AND HEMODYNAMIC MODELING
(73) East Carolina University
(72) HU, Xin-Hua
FERGUSON, Thomas, Bruce, Jr.
CHEN, Cheng
(74) dr. A. Krebs
(31) 201161476854 P
201161431161 P
(32) 19.04.2011
10.01.2011
(33) United States of America
United States of America
(47) 27.10.2021

(51) A61B 5/00
A61B 5/053
(11) EP3048953
(21) EP14758269.6
(22) 21.08.2014
(54) HEART FAILURE EVENT DETECTION USING THORACIC IMPEDANCE
(73) Cardiac Pacemakers, Inc.
(72) AVERINA, Viktoria A.
THAKUR, Pramodsingh Hirasingh
KRUEGER, Jonathan Walter
SWEENEY, Robert J.
(74) ir. H.J.G. Lips c.s.
(31) 201361882866 P
(32) 26.09.2013
(33) United States of America
(47) 01.12.2021

(51) A61B 5/00
A61N 1/39
A61B 5/0205
A61B 5/11
A61B 5/08
(11) EP3355767
(21) EP16781953.1
(22) 30.09.2016
(54) ENHANCED WEARABLE THERAPY DEVICE PAIRED WITH INSERTABLE CARDIAC MONITOR
(73) Cardiac Pacemakers, Inc.
(72) BALCZEWSKI, Ron A.
MAILE, Keith R.
LUDWIG, Jacob M.
GROTBECK, Todd W.
SWEENEY, Moira B.
(74) ir. H.J.G. Lips c.s.
(31) 201562236645 P
(32) 02.10.2015
(33) United States of America
(47) 01.12.2021

(51) A61B 5/055
A61B 5/30
G01R 33/389
A61B 5/00
G01R 33/567
G01R 33/565
(11) EP3552545
(21) EP19168194.9
(22) 09.04.2019
(54) METHOD AND DEVICE FOR REAL-TIME MAGNETIC FIELD CORRECTION
(73) Schiller Medical
Université de Lorraine
Centre Hospitalier Régional Universitaire de Nancy
(74) dr. W.A.H.M. Van Borm
(31) 1853201
(32) 12.04.2018
(33) France
(47) 03.11.2021

(51) A61B 5/11
A61B 5/00
A61B 5/0205
A61B 5/024
A61B 5/1455
A63B 71/06
(11) EP3578101
(21) EP19178462.8
(22) 05.06.2019
(54) ELECTRONIC DEVICE FOR PROVIDING EXERCISE INFORMATION USING BIOMETRIC INFORMATION AND OPERATING METHOD THEREOF
(73) Samsung Electronics Co., Ltd.
(72) OH, Junseok
SHIN, Seunghwan
YUN, Inho
CHO, Sunghwan
KIM, Jinho
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 20180065372
(32) 07.06.2018
(33) Korea (Republic)
(47) 27.10.2021

(51) A61B 5/145
G01N 33/66
A61B 5/1473
A61B 5/1495
(11) EP3142552
(21) EP15793074.4
(22) 14.05.2015
(54) ANALYTE LEVEL CALIBRATION USING BASELINE ANALYTE LEVEL
(73) Abbott Diabetes Care Inc.
(72) HOSS, Udo
BUDIMAN, Erwin S.
(74) ir. F.A. Geurts c.s.
(31) 201461993908 P
(32) 15.05.2014
(33) United States of America
(47) 10.11.2021

(51) A61B 6/00
(11) EP2742866
(21) EP14159245.1
(22) 16.09.2010
(54) Particle image velocimetry suitable for X-ray projection imaging
(73) 4DMedical Limited
(72) Fouras, Andreas
Dubsky, Stephen
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 2009904481
(32) 16.09.2009
(33) Australia
(47) 27.10.2021

(51) A61B 6/03
A61B 6/02
A61B 6/00
A61B 8/00
G01V 5/00
G01N 23/046
G06T 7/00
G06T 11/00
G06T 15/00
G06T 17/00
G06T 19/00
G06T 7/50
A61B 6/12
A61B 90/00
A61B 34/20
(11) EP3326537
(21) EP17204111.3
(22) 28.11.2017
(54) VISUALIZATION OF DISTANCES TO WALLS OF ANATOMICAL CAVITIES
(73) Biosense Webster (Israel) Ltd.
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201615364156
(32) 29.11.2016
(33) United States of America
(47) 03.11.2021

(51) A61B 6/03
G01N 23/04
G06T 11/00
A61B 6/00
G01N 23/046
G06T 17/30
(11) EP2677936
(21) EP12742937.1
(22) 23.02.2012
(54) IMAGE RECONSTRUCTION BASED ON PARAMETRIC MODELS
(73) Smiths Heimann GmbH
(72) DREISEITEL, Pia
MUENSTER, Matthias
(74) ir. F.A. Geurts c.s.
(31) 201161446558 P
(32) 25.02.2011
(33) United States of America
(47) 29.09.2021

(51) A61B 6/04
A61G 13/12
(11) EP3399917
(21) EP17704844.4
(22) 06.01.2017
(54) ARM POSITIONING DEVICE FOR SUPPORTING THE ARMS OF A PATIENT IN AN ARMS-UP POSITION FOR THERAPEUTIC OR DIAGNOSTIC PURPOSES
(73) Medtec, Inc.
(72) WILSON, Roger F.
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201662276365 P
(32) 08.01.2016
(33) United States of America
(47) 20.10.2021

(51) A61B 7/00
A61B 5/00
(11) EP2911588
(21) EP13780151.0
(22) 24.10.2013
(54) SEALED SOUND DETECTOR PROVIDED WITH TWO SENSORS FOR MEASURING SOUND AND STATIC PRESSURE
(73) Controle Instrumentation Et Diagnostic Electroniques SA (Cidelec)
(72) FREYCENON, Cédric
MONTARON, Christian
(74) ir. W.J.J.M. Kempes
(31) 1260312
(32) 29.10.2012
(33) France
(47) 13.10.2021

(51) A61B 17/15
A61B 17/17
A61B 17/80
A61F 2/30
(11) EP2931143
(21) EP13818995.6
(22) 12.12.2013
(54) IMPLANT AND GUIDE FOR MAXILLOFACIAL SURGERY
(73) OBL (Société Anonyme)
Assistance Publique Hôpitaux de Paris
Université Pierre et Marie Curie (Paris 6)
(72) DUBOIS, Guillaume
GOUDOT, Patrick
SCHOUMAN, Thomas
(74) dr. W.A.H.M. Van Borm
(31) 1203393
(32) 12.12.2012
(33) France
(47) 24.11.2021

(51) A61B 17/16
A61F 2/46
(11) EP3705065
(21) EP20165272.4
(22) 04.11.2008
(54) BASE UNIT FOR ACTUATING A BONE MILL
(73) Stryker Corporation
(72) PETERSON, Michael, J.
SY, Ben J.
DIEHL, Eric K.
BURMEISTER, III, Richard F.
KALINKA, Gary T.
(74) J.M.H. Duyver Iic.
(31) 93644807
(32) 07.11.2007
(33) United States of America
(47) 24.11.2021

(51) A61B 17/32
A61B 34/35
A61B 34/37
(11) EP2866710
(21) EP13735097.1
(22) 14.06.2013
(54) LOCKOUT MECHANISM FOR USE WITH ROBOTIC ELECTROSURGICAL DEVICE
(73) Cilag GmbH International
(72) STULEN, Foster B.
STEWART, Randolph
BOUDREAUX, Chad P.
BATROSS, Jonathan T.
TREES, Gregory A.
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201213539110
(32) 29.06.2012
(33) United States of America
(47) 20.10.2021

(51) A61B 17/3207
(11) EP2945552
(21) EP14704941.5
(22) 14.01.2014
(54) SUBINTIMAL RE-ENTRY CATHETER WITH ACTUATABLE ORIENTATION MECHANISM
(73) Boston Scientific Scimed, Inc.
(74) ir. A.R. Aalbers
(31) 201361752498 P
(32) 15.01.2013
(33) United States of America
(47) 03.11.2021

(51) A61B 17/326
A61B 17/00
(11) EP2606840
(21) EP11817653.6
(22) 19.08.2011
(54) DISPOSABLE CIRCUMCISION CLAMP
(73) Shang, Jianzhong
(72) SHANG, Jingjing
(74) ir. W.J.J.M. Kempes
(31) 201020299303 U
(32) 20.08.2010
(33) China
(47) 29.09.2021

(51) A61B 17/94
A61L 29/14
B32B 1/08
A61M 25/00
A61L 29/08
B32B 15/08
B32B 27/32
B32B 27/34
B32B 27/08
B32B 27/40
B32B 15/18
B32B 27/28
A61F 2/958
(11) EP3174483
(21) EP15826459.8
(22) 29.07.2015
(54) HYPOTUBE CONSTRUCTION
(73) Micro Medical Solutions, Inc.
(72) SULLIVAN, Gregory
GRIFFIN, Stephen
(74) dr. A. Krebs
(31) 201462055712 P
201462030435 P
(32) 26.09.2014
29.07.2014
(33) United States of America
United States of America
(47) 22.09.2021

(51) A61B 18/02
A61B 17/00
A61B 18/00
(11) EP3731770
(21) EP18833673.9
(22) 27.12.2018
(54) APPLICATION NOZZLE FOR DERMO COSMETIC TREATMENT DEVICE FOR CUTANEOUS BROWN SPOTS BY CYTO-SELECTIVE CRYOTHERAPY
(73) CRYONOVE PHARMA
(72) ANTON, Jean-Christophe
MARIN, Denis
(74) dr. W.A.H.M. Van Borm
(31) 1771438
(32) 28.12.2017
(33) France
(47) 13.10.2021

(51) A61B 18/02
A61B 18/00
A61B 90/98
(11) EP2964124
(21) EP13877095.3
(22) 28.08.2013
(54) CRYOSPRAY CATHETERS
(73) CSA Medical, Inc.
(72) HANLEY, Brian M.
MCCARTIN, Stephen M.
SHIA, Benedict
GRIFFIN, Stephen
FAN, Wei Li
CORDERO, Rafael
BABKO-MALYI, Sergei
(74) ir. W.J.J.M. Kempes
(31) 201313784596
(32) 04.03.2013
(33) United States of America
(47) 27.10.2021

(51) A61C 5/42
(11) EP3682841
(21) EP20152244.8
(22) 16.01.2020
(54) DENTAL ROOT CANAL INSTRUMENT
(73) Gebr. Brasseler GmbH & Co. KG
(72) CAKIR, Ömer
ABRAMS, Ernst
(74) ir. H.A. Witmans c.s.
(31) 102019101174
(32) 17.01.2019
(33) Germany
(47) 13.10.2021

(51) A61C 7/00
A61C 7/08
(11) EP3457980
(21) EP17722464.9
(22) 10.05.2017
(54) RETAINER AND METHOD FOR PRODUCTION THEREOF
(73) CA Digital GmbH
(72) JO, Yong-min
(74) J.M.H. Duyver Iic.
(31) 102016109007
(32) 17.05.2016
(33) Germany
(47) 13.10.2021

(51) A61C 8/00
A61C 3/14
(11) EP3622916
(21) EP19197159.7
(22) 13.09.2019
(54) FORCEPS FOR REMOVING DENTAL IMPLANT FIXTURE
(73) Lee, Jinkyun
(72) Lee, Jinkyun

(74) ir. M.F.J.M. Ketelaars c.s.
(31) 20180110404
(32) 14.09.2018
(33) Korea (Republic)
(47) 03.11.2021

(51) A61C 17/16
A61C 19/04
A61B 5/00
A46B 15/00
(11) EP3700461
(21) EP20700344.3
(22) 07.01.2020
(54) HAND-HELD DEVICE FOR FLUORESCENCE EXCITATION AND FOR IRRADIATING MICROORGANISMS IN THE MOUTH AND THROAT
(73) König, Karsten
(72) König, Karsten
(74) J.M.H. Duyver lic.
(31) 102019100295
(32) 08.01.2019
(33) Germany
(47) 20.10.2021

(51) A61F 2/00
(11) EP2967800
(21) EP14771142.8
(22) 03.03.2014
(54) IMPLANTS AND TOOLS FOR TREATMENTS OF PELVIC CONDITIONS
(73) Boston Scientific Scimed, Inc.
(72) VIKER, Thomas O.
(74) ir. H.J.G. Lips c.s.
(31) 201361789221 P
(32) 15.03.2013
(33) United States of America
(47) 15.12.2021

(51) A61F 2/16
G02C 7/04
G02B 5/18
G02C 7/02
(11) EP2105783
(21) EP09159898.7
(22) 20.03.2002
(54) An ophthalmic lens
(73) AMO Groningen B.V.
(72) Piers, Patricia Ann
Weeber, Albert Hendrik
(74) ir. F.A. Geurts c.s.
(31) 0101293
(32) 11.04.2001
(33) Sweden
(47) 06.10.2021

(51) A61F 2/24
(11) EP3107500
(21) EP15752088.3
(22) 18.02.2015
(54) FLEXIBLE COMMISSURE FRAME
(73) Edwards Lifesciences Corporation
(72) LEVI, Tamir, S.
(74) ir. F.A. Geurts c.s.
(31) 201461941123 P
(32) 18.02.2014
(33) United States of America
(47) 24.11.2021

(51) A61F 2/24
(11) EP3760164
(21) EP20172700.5
(22) 07.04.2010
(54) HEART VALVE WITH ANCHORING STRUCTURE HAVING CONCAVE LANDING ZONE
(73) Medtronic ATS Medical Inc.
(72) Elizondo, David R.
Malewicz, Andrzej M.
Myers, Keith E.
Weston, Matthew W.
(74) dr. W.A.H.M. Van Borm
(31) 60331509
18465009 P
(32) 21.10.2009
05.06.2009
(33) United States of America
United States of America
(47) 17.11.2021

(51) A61F 2/24
A61B 17/00
(11) EP3288499
(21) EP16787251.4
(22) 29.04.2016
(54) REPLACEMENT MITRAL VALVE AND DELIVERY SYSTEM FOR REPLACEMENT MITRAL VALVE
(73) Edwards Lifesciences CardiAQ LLC
(72) RABITO, Glen, T.
RATZ, J., Brent
QUADRI, Arshad
LIAO, Yen
STEWART, Kevin, M.
LANDON, David, Robert
PESCE, Luca
VAD, Siddharth
COOPER, Alexander, H.
SANCHEZ, Julio, C.
(74) ir. F.A. Geurts c.s.
(31) 201615141684
201662300478 P
201562210165 P
201562163932 P
201562155405 P
(32) 28.04.2016
26.02.2016
26.08.2015
19.05.2015
30.04.2015
(33) United States of America
United States of America
United States of America
United States of America
United States of America
(47) 10.11.2021

(51) A61F 2/54
A61F 2/64
A61F 2/66
(11) EP3672536
(21) EP18739532.2
(22) 10.07.2018
(54) PROSTHETIC SYSTEM AND PROCEDURE FOR VERFYING A FUNCTIONING OF A PROSTHETIC SYSTEM
(73) Otto Bock Healthcare Products GmbH
(72) AMSÜSS, Sebastian
GMEINER, Benjamin
SCHOBESBERGER, Matthias
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 102017119490
(32) 25.08.2017
(33) Germany
(47) 29.09.2021

(51) A61F 2/91
A61F 2/915
A61F 2/88
(11) EP2600805
(21) EP11743734.3
(22) 02.08.2011
(54) FLEXIBLE STENT HAVING PROTRUDING HINGES
(73) Cardinal Health 529, LLC
(72) MARREY, Ramesh
GRISHABER, Randy, David, B.
BAILLARGEON, Brian, P.
RYDER, John, Kenneth
DONOVAN, Ryan, R.
(74) ir. H.A. Witmans c.s.
(31) 370011 P
(32) 02.08.2010
(33) United States of America
(47) 06.10.2021

(51) A61F 9/008
(11) EP2774587
(21) EP14164301.5
(22) 07.01.2011
(54) System for modifying eye tissue and intraocular lenses
(73) AMO Development, LLC
(72) Schuele, Georg
Andersen, Dan E.
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 293357 P
(32) 08.01.2010
(33) United States of America
(47) 20.10.2021

(51) A61F 13/00
D04H 1/46
(11) EP2948116
(21) EP14743007.8
(22) 28.01.2014
(54) A WOUND DRESSING
(73) IWMT Intellectual Property Holdings (Pty) Ltd
(72) ROBSON, Martin C
MOUTON, Jacobus Frederick
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201300743
(32) 28.01.2013
(33) South Africa
(47) 06.10.2021

(51) A61F 13/15
(11) EP3209587
(21) EP15853115.2
(22) 21.10.2015
(54) APPARATUS AND METHOD FOR FOLDING
(73) Curt G. Joa, Inc.
(72) NELSON, Brian
FERGUSON, Ryan
MUHS, Thomas
(74) drs. C.M.A. Quintelier
(31) 201462068353 P
(32) 24.10.2014
(33) United States of America

(47) 08.12.2021

(51) A61F 13/15
A61F 13/539
A61F 13/535
A61F 13/532
A61F 13/53
(11) EP2317963
(21) EP09791821.3
(22) 24.08.2009
(54) METHOD AND APPARATUS FOR MAKING DISPOSABLE ABSORBENT ARTICLE HAVING DISCONTINUOUSLY DISTRIBUTED ABSORBENT PARTICULATE POLYMER MATERIAL AND ARTICLE MADE THEREWITH
(73) The Procter & Gamble Company
(72) KRAUSE, Axel
BERUDA, Holger
SCHMIDT, Mattias
DZIEZOK, Peter
STELZIG, Lutz
SANZ, Miguel, Brandt
BLESSING, Horst
HUNDORF, Harald, Hermann
(31) 91799 P
(32) 26.08.2008
(33) United States of America
(47) 01.12.2021

(51) A61F 13/475
(11) EP3838241
(21) EP20213357.5
(22) 20.12.2019
(54) ABSORBENT ARTICLES
(73) Ontex Group NV
Ontex BV
(72) Schneider, Jochen F.
Ingenfeld, Björn
Coppejans, Toon
Lambertz, Christina
Dzaferi, Gezime
WEBER, Ainas
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 19164452
(32) 21.03.2019
(33) European Patent Office (EPO)
(47) 17.11.2021

(51) A61F 13/475
A61F 13/532
A61F 13/533
A61F 13/42
D04H 1/54
D04H 3/005
A61F 13/15
(11) EP3711732
(21) EP20164374.9
(22) 19.03.2020
(54) ABSORBENT ARTICLES AND METHODS OF MAKING
(73) Ontex Group NV
Ontex BV
(72) Schneider, Jochen F.
Lambertz, Christina
Coppejans, Toon
Dzaferi, Gezime
Ingenfeld, Björn
Weber, Ainas
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 202000018
19218948
19164452
(32) 11.02.2020
20.12.2019
21.03.2019
(33) Belgium
European Patent Office (EPO)
European Patent Office (EPO)
(47) 17.11.2021

(51) A61F 13/511
D04H 1/54
D04H 3/16
(11) EP3316837
(21) EP16738961.8
(22) 30.06.2016
(54) NONWOVEN WEB FORMED WITH LOFT-ENHANCING CALENDER BOND SHAPES AND PATTERNS, AND ARTICLES INCLUDING THE SAME
(73) The Procter & Gamble Company
(72) XU, Han
KEARNEY, Donald, R.
ISELE, Olaf, Erik Alexander
DEBEER, Antonius, Lambertus
(31) 201514755810
(32) 30.06.2015
(33) United States of America
(47) 08.12.2021

(51) A61F 13/532
A61F 13/537
(11) EP3254656
(21) EP17183611.7
(22) 07.05.2014
(54) ABSORBENT ARTICLE AND ABSORBENT CORE FORMING CHANNELS WHEN WET
(73) The Procter & Gamble Company
(72) Ehrnsperger, Bruno Johannes
Bianchi, Ernesto Gabriel
Rinnert, Thorsten
Hollenberg, Doris
(31) 13172113
(32) 14.06.2013
(33) European Patent Office (EPO)
(47) 10.11.2021

(51) A61F 13/84
A61F 13/42
H01H 36/00
H03K 17/97
(11) EP3373877
(21) EP15795152.6
(22) 13.11.2015
(54) WEARABLE ABSORBENT HYGIENE ARTICLE COMPRISING AN ELECTRONICS UNIT
(73) Essity Hygiene and Health Aktiebolag
(72) LOCATI, Alessandro
TRAMONTANA, Manuel
SCHVETZ, Yossef
CARNEY, Joshua
OZSUMER, Serdar
(74) ir. M.F.J.M. Ketelaars c.s.
(47) 24.11.2021

(51) A61G 5/04
(11) EP3260101
(21) EP17162833.2
(22) 06.07.2012
(54) MOTION-BASED POWER ASSIST SYSTEM FOR WHEELCHAIRS
(73) Max Mobility, LLC
(72) Richter, William Mark
(74) ir. W.J.J.M. Kempes
(31) 201161504949 P
(32) 06.07.2011
(33) United States of America
(47) 08.12.2021

(51) A61G 7/057
A47C 21/04
(11) EP3398577
(21) EP18177480.3
(22) 30.08.2010
(54) CLIMATE-CONTROLLED TOPPER MEMBER FOR MEDICAL BEDS
(73) Sleep Number Corporation
(72) Terech, John
Marquette, David
Vidojevski, Robert
Brykalski, Michael J
(74) ir. W.J.J.M. Kempes
(31) 238655 P
(32) 31.08.2009
(33) United States of America
(47) 06.10.2021

(51) A61K 8/04
A61K 8/49
A61K 8/73
A61K 8/92
A61Q 1/02
A61K 8/9789
(11) EP3106206
(21) EP16174682.1
(22) 16.06.2016
(54) BODY INK COMPOSITIONS AND APPLICATORS
(73) inkbox ink Inc.
(72) Handley, Tyler James
Handley, Braden
Caputo, Christopher Blain
Zrehen, Adam Manuel
(74) ir. W.J.J.M. Kempes
(31) 201562181918 P
(32) 19.06.2015
(33) United States of America
(47) 29.09.2021

(51) A61K 8/29
A61Q 17/04
A61K 8/81
A61K 8/02
A61K 8/19
(11) EP3439618
(21) EP17720224.9
(22) 06.04.2017
(54) UV-PROTECTIVE COMPOSITIONS AND THEIR USE
(73) Landa Labs (2012) Ltd.
(72) LANDA, Benzion
DOR, Snir
ABRAMOVICH, Sagi
(74) dr. A. Krebs
(31) 201605857
(32) 06.04.2016
(33) United Kingdom
(47) 01.12.2021

(51) A61K 8/73
A61Q 5/12

A61Q 5/00
A61Q 19/00
D01F 2/00
A61K 8/02
A61Q 3/00
(11) EP3424487
(21) EP17760354.5
(22) 03.03.2017
(54) NETWORKED DISPERSION OF BIOCELLULOSE MICROFIBRILS IN WATER
(73) LG Household & Health Care Ltd.
(72) HUR, Eu-Gene
JUN, Seung-Hyun
LEE, Seol-Hoon
KANG, Nae-Gyu
KIM, Seo-Yeon
(74) dr. ir. G.J.C. Verdijck c.s.
(31) 20170002301
20160100603
20160100599
20160025765
(32) 06.01.2017
08.08.2016
08.08.2016
03.03.2016
(33) Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)
(47) 15.09.2021

(51) A61K 9/00
A61K 9/06
A61K 9/14
A61K 9/16
A61K 9/70
A61P 31/00
A61P 31/02
A61P 41/00
A61K 45/06
A61K 31/65
A61P 31/04
(11) EP3200748
(21) EP15846726.6
(22) 27.09.2015
(54) COMPOSITIONS AND METHODS FOR THE TREATMENT AND PROPHYLAXIS OF SURGICAL SITE INFECTIONS
(73) Polypid Ltd.
(72) EMANUEL, Noam
(74) dr. W.A.H.M. Van Borm
(31) 201462058809 P
(32) 02.10.2014
(33) United States of America
(47) 27.10.2021

(51) A61K 9/00
A61K 9/50
A61K 31/56
A61K 31/58
A61P 7/10
A61P 17/02
A61P 25/00
A61P 27/02
A61P 29/00
(11) EP2976062
(21) EP14722905.8
(22) 21.03.2014
(54) INJECTABLE SUSTAINED RELEASE COMPOSITION AND METHOD OF USING THE SAME FOR TREATING INFLAMMATION IN JOINTS AND PAIN ASSOCIATED THEREWITH
(73) Eupraxia Pharmaceuticals USA LLC
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201361804185 P
(32) 21.03.2013
(33) United States of America
(47) 03.11.2021

(51) A61K 9/00
A61K 31/4174
A61K 31/4164
C07D 233/64
A61P 27/06
(11) EP3636263
(21) EP19194325.7
(22) 16.09.2011
(54) ESTER PRO-DRUGS OF [3-(1-(1H-IMIDAZOL-4-YL)ETHYL)-2-METHYLPHENYL] METHANOL
(73) ALLERGAN, INC.
(74) dr. ir. F.M. van Bouwelen
(31) 38337010 P
(32) 16.09.2010
(33) United States of America
(47) 03.11.2021

(51) A61K 9/08
A61K 38/26
A61K 47/26
A61K 47/12
A61K 47/10
A61K 47/02
A61P 3/10
(11) EP3527195
(21) EP17861073.9
(22) 16.10.2017
(54) PHARMACEUTICAL PREPARATION CONTAINING POLYETHYLENE GYLCOL LOXENATIDE AND PREPARATION METHOD THEREOF
(73) Jiangsu Hansoh Pharmaceutical Group Co., Ltd.
(72) HU, Di
YUAN, Hengli
WANG, Ge
DONG, Li
SUN, Yundong
(74) dr. W.A.H.M. Van Borm
(31) 201610900107
(32) 14.10.2016
(33) China
(47) 08.12.2021

(51) A61K 9/14
A61K 31/436
A61P 1/02
(11) EP3089737
(21) EP14876647.0
(22) 31.12.2014
(54) ORAL RAPAMYCIN NANOPARTICLE PREPARATIONS AND USE
(73) Rapamycin Holdings, LLC
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201462040000 P
201461980095 P
201361922800 P
(32) 21.08.2014
16.04.2014
31.12.2013
(33) United States of America
United States of America
United States of America
(47) 03.11.2021

(51) A61K 9/20
A61K 9/28
A61K 31/155
A61K 31/198
A61K 31/341
A61K 31/4164
A61K 31/421
A61K 31/4178
A61K 31/43
A61K 31/65
A61K 31/454
A61K 31/7056
A61P 25/16
(11) EP3628004
(21) EP19740259.7
(22) 27.06.2019
(54) SELF-REGULATING OSMOTIC GASTRORETENTIVE DRUG DELIVERY SYSTEMS
(73) Amneal Complex Products Research LLC
(72) DESAI, Dipen
PHUAPRADIT, Wantanee
VAGHASHIYA, Jaydeep
SHAH, Navnit H.
MEGHPARA, Kanji
(74) dr. W.A.H.M. Van Borm
(31) 201962822572 P
201862690568 P
(32) 22.03.2019
27.06.2018
(33) United States of America
United States of America
(47) 22.09.2021

(51) A61K 31/00
A61K 31/165
A61K 31/4192
A61K 31/53
A61P 21/02
(11) EP3386491
(21) EP16818983.5
(22) 09.12.2016
(54) RUFINAMIDE FOR USE IN THE TREATMENT OF MYOTONIA
(73) Aarhus Universitet
(72) PEDERSEN, Thomas Holm
SKOV, Martin Brandhøj
(74) ir. W.J.J.M. Kempes
(31) 15199512
(32) 11.12.2015
(33) European Patent Office (EPO)
(47) 08.12.2021

(51) A61K 31/05
A61K 31/164
A61K 31/352
A61K 31/473
A61K 31/5375
A61K 31/7068
A61K 33/24
A61K 45/06
A61P 21/00
A61P 43/00

(11) EP3544598
(21) EP17811874.1
(22) 24.11.2017
(54) CANNABINOIDS FOR PROPHYLACTIC TREATMENT OF INVOLUNTARY WEIGHT LOSS
(73) AOP Orphan Pharmaceuticals AG
(72) KOHL, Agnes
LENHARD, Ralf
(74) ir. J.D. de Zeeuw
(31) 16200498
(32) 24.11.2016
(33) European Patent Office (EPO)
(47) 06.10.2021

(51) A61K 31/197
A61K 31/662
C07C 271/46
C07F 9/48
C07C 309/66
C07C 229/22
C07C 229/34
C07C 237/10
C07C 237/30
C07C 239/20
A61P 35/00
(11) EP3102195
(21) EP15706571.5
(22) 03.02.2015
(54) BETA-SUBSTITUTED BETA-AMINO ACIDS AND ANALOGS AS CHEMOTHERAPEUTIC AGENTS
(73) Quadriga Biosciences, Inc.
(72) FISCHER, Wolf-Nicolas
JANDELEIT, Bernd
KOLLER, Kerry, J.
(74) ir. H.A. Witmans c.s.
(31) 201461935246 P
(32) 03.02.2014
(33) United States of America
(47) 06.10.2021

(51) A61K 31/341
A61K 31/4184
A61K 31/496
A61K 31/517
A61K 31/52
A61K 31/566
A61K 31/57
A61K 31/575
A61P 31/20
(11) EP3294288
(21) EP16722201.7
(22) 11.05.2016
(54) HUMAN PAPILLOMA VIRUS REPLICATION INHIBITORS
(73) Icosagen Cell Factory OÜ
(72) TOOTS, Mart
USTAV, Ene
USTAV, Mart Sr.
MÄNNIK, Andres
TOVER, Andres
(74) J.M.H. Duyver lic.
(31) 201562159572 P
(32) 11.05.2015
(33) United States of America
(47) 29.09.2021

(51) A61K 31/353
A61K 45/06
A61P 35/00
A61P 43/00
(11) EP3482760
(21) EP17824314.3
(22) 06.07.2017
(54) COMBINATION COMPRISING EP4 ANTAGONIST AND IMMUNE CHECKPOINT INHIBITOR
(73) Ono Pharmaceutical Co., Ltd.
(72) YOSHIDA, Takao
TAKANO, Hirotsugu
SHOYAMA, Akiko
(74) ir. H.A. Witmans c.s.
(31) 201662359504 P
(32) 07.07.2016
(33) United States of America
(47) 10.11.2021

(51) A61K 31/496
A61K 31/337
A61P 35/00
(11) EP3076972
(21) EP13895342.7
(22) 11.10.2013
(54) CANCER TREATMENT WITH COMBINATION OF PLINABULIN AND TAXANE
(73) BeyondSpring, Inc.
(72) HUANG, Lan
(74) ir. M.F.J.M. Ketelaars c.s.
(47) 06.10.2021

(51) A61K 31/5025
C07D 513/14
A61P 7/08
A61P 7/06
A61P 35/00
A61P 3/10
(11) EP3668513
(21) EP18779068.8
(22) 15.08.2018
(54) PYRUVATE KINASE ACTIVATORS FOR USE IN TREATING BLOOD DISORDERS
(73) Agios Pharmaceuticals, Inc.
(72) CAI, Zhenwei
CUI, Dawei
PADYANA, Anil, Kumar
SUI, Zhihua
CIANCHETTA, Giovanni
JI, Jingjing
LIU, Tao
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201862673533 P
201862673526 P
PCT/CN2017/097496
(32) 18.05.2018
18.05.2018
15.08.2017
(33) United States of America
United States of America
World Intellectual Property Office (WIPO)
(47) 10.11.2021

(51) A61K 31/53
(11) EP3536324
(21) EP19152036.0
(22) 19.11.2015
(54) 4-OXO-3,4-DIHYDRO-1,2,3-BENZOTRIAZINES AS MODULATORS OF GPR139
(73) Takeda Pharmaceutical Company Limited
(72) LAM, Betty
REICHARD, Holly
HITCHCOCK, Stephan
MONENSCHEIN, Holger
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201562184729 P
201462082539 P
(32) 25.06.2015
20.11.2014
(33) United States of America
United States of America
(47) 06.10.2021

(51) A61K 31/555
A61K 9/00
A61M 31/00
A61P 13/10
A61P 35/00
(11) EP2890384
(21) EP13765839.9
(22) 03.09.2013
(54) DRUG DELIVERY SYSTEMS AND METHODS FOR TREATMENT OF BLADDER CANCER COMPRISING OXALIPLATIN
(73) TARIS Biomedical LLC
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201261696027 P
(32) 31.08.2012
(33) United States of America
(47) 03.11.2021

(51) A61K 31/593
A61P 43/00
A61P 39/00
A61K 9/70
A61K 9/00
A61K 9/08
A61K 9/10
A61K 31/198
A61K 47/02
A61K 47/14
(11) EP3328390
(21) EP16748057.3
(22) 12.07.2016
(54) LYSINE SALTS OF CHOLECALCIFEROL SULFATE AND THEIR USE FOR THE TREATMENT OF VITAMIN D3 DEFICIENCY
(73) CFSO GmbH
(72) CALIEBE, Reinhard
OBENLAND, Sigrid
SALAMI, Oyewole,Taye
(74) dr. W.A.H.M. Van Borm
(31) 102015014760
102015009022
(32) 15.11.2015
12.07.2015
(33) Germany
Germany
(47) 29.09.2021

(51) A61K 35/06
A61K 35/644
A61K 35/60
A61K 36/87
A61K 36/55
A61K 36/537
A61P 17/00

A61K 31/07
A61K 31/59
A61K 31/35
A61K 36/63
(11) EP3220924
(21) EP15860878.6
(22) 13.11.2015
(54) TOPICAL MEDICAMENT FOR SKIN AND MUCOSAL INJURIES ASSOCIATED WITH EPIDERMOLISIS BULLOSA
(73) Rev Pharma Corp
(72) VASQUEZ, Ramon, Efrain
(74) ir. W.J.J.M. Kempes
(31) 201462080786 P
(32) 17.11.2014
(33) United States of America
(47) 20.10.2021

(51) A61K 36/53
A61K 31/4188
A61K 31/132
A61P 17/14
A61K 8/25
A61K 8/41
A61K 8/67
A61K 8/73
A61K 8/9789
A61Q 7/00
(11) EP3661534
(21) EP18758821.5
(22) 02.08.2018
(54) A SYNERGISTIC COMPOSITION AS A PROMOTER OF AUTOPHAGY
(73) Giuliani S.p.A.
(72) BARONI, Sergio
MARZANI, Barbara
PAUS, Ralf
GRIMALDI, Benedetto
GIULIANI, Giammaria
(74) J.M.H. Duyver lic.
(31) 201700089680
(32) 03.08.2017
(33) Italy
(47) 20.10.2021

(51) A61K 38/08
A61K 45/06
A61K 31/675
A61K 31/704
A61P 35/00
(11) EP3229823
(21) EP15793749.1
(22) 04.11.2015
(54) CHEMOTHERAPEUTIC COMBINATIONS OF CATIONIC ANTIMICROBIAL PEPTIDES AND CHEMOTHERAPEUTICS
(73) Lytix Biopharma AS
(72) EIKE, Liv Marie
SVENDSEN, John Sigurd Mjøen
CAMILIO, Ketil
REKDAL, Øystein
SVEINBJØRNSSON, Baldur
(74) J.M.H. Duyver lic.
(31) 2015118496
201506128
201422084
(32) 11.06.2015
10.04.2015
11.12.2014
(33) Japan
United Kingdom
United Kingdom
(47) 20.10.2021

(51) A61K 38/17
A61K 35/646
C07K 14/435
A61P 15/08
(11) EP3463426
(21) EP17728515.2
(22) 01.06.2017
(54) USE OF LA1-LIKE PEPTIDE ISOLATED FROM MAURUS PALMATUS VENOM AS AN ACTIVATOR OF SPERM MOTILITY IN MAMMALS
(73) UNIVERSITE GRENOBLE ALPES
Centre Hospitalier Universitaire Grenoble Alpes
IMV Technologies
CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE
(74) ir. F.A. Geurts c.s.
(31) 16305642
(32) 02.06.2016
(33) European Patent Office (EPO)
(47) 03.11.2021

(51) A61K 38/17
A61K 38/08
A61K 45/06
A61P 27/02
C07K 14/47
C07K 7/06
(11) EP3288577
(21) EP16789840.2
(22) 29.04.2016
(54) ADIPONECTIN PEPTIDOMIMETICS FOR TREATING OCULAR DISORDERS
(73) Allysta Pharmaceuticals, Inc.
(72) HSU, Henry
(74) dr. A. Krebs
(31) 201562156127 P
(32) 01.05.2015
(33) United States of America
(47) 27.10.2021

(51) A61K 38/22
A61P 19/02
(11) EP3386531
(21) EP16852866.9
(22) 08.12.2016
(54) USE OF C-TYPE NATRIURETIC PEPTIDE VARIANTS TO TREAT OSTEOARTHRITIS
(73) BioMarin Pharmaceutical Inc.
(72) O'NEILL, Charles, A.
PINKSTAFF, Jason, K.
OPPENEER, Todd, M.
(74) ir. W.J.J.M. Kempes
(31) 201562264682 P
(32) 08.12.2015
(33) United States of America
(47) 13.10.2021

(51) A61K 38/43
A61P 3/06
(11) EP3482767
(21) EP18199358.5
(22) 28.08.2010
(54) DOSE ESCALATION ENZYME REPLACEMENT THERAPY FOR TREATING ACID SPHINGOMYELINASE DEFICIENCY
(73) Genzyme Corporation
Icahn School of Medicine at Mount Sinai
(72) MURRAY, James M.
COX, Gerald F.
ANDREWS, Laura P.
SCHUCHMAN, Edward H.
DESNICK, Robert J.
(74) J.M.H. Duyver lic.
(31) 238113 P
(32) 28.08.2009
(33) United States of America
(47) 06.10.2021

(51) A61K 38/45
A61K 31/7088
(11) EP2959005
(21) EP14754545.3
(22) 22.02.2014
(54) MEDICAL USE RELATING TO TELOMERE EXTENSION
(73) The Board of Trustees of the Leland Stanford Junior University
(72) BLAU, Helen M.
YAKUBOV, Eduard
COOKE, John
RAMUNAS, John
(74) ir. H.A. Witmans c.s.
(31) 201361768047 P
(32) 22.02.2013
(33) United States of America
(47) 06.10.2021

(51) A61K 38/47
C12N 7/00
C12N 15/86
A61K 31/675
A61K 45/06
A61K 48/00
A61P 25/28
(11) EP3294323
(21) EP16797013.6
(22) 13.05.2016
(54) ADENO-ASSOCIATED VIRUS FOR THERAPEUTIC DELIVERY TO CENTRAL NERVOUS SYSTEM
(73) Belur, Lalitha R.
McIvor, R. Scott
Kozarsky, Karen
(72) Belur, Lalitha R.
Kozarsky, Karen
McIvor, R. Scott
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201662331156 P
201662301980 P
201562252055 P
201562162174 P
(32) 03.05.2016
01.03.2016
06.11.2015
15.05.2015
(33) United States of America
United States of America
United States of America
United States of America
(47) 13.10.2021

(51) A61K 38/50

A61P 37/00
A61P 19/02
A61P 25/00
(11) EP3137103
(21) EP15785242.7
(22) 28.04.2015
(54) METHODS AND COMPOSITIONS FOR MODULATING THE IMMUNE SYSTEM WITH ARGINASE I
(73) Bio-Cancer Treatment International Ltd.
(72) BLUML, Stephen
SCHABBAUER, Gernot
CHEN, Li
CHENG, Paul
SAHIN, Emine
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201461985924 P
(32) 29.04.2014
(33) United States of America
(47) 20.10.2021

(51) A61K 38/51
C12N 9/88
C12P 7/42
C12P 13/22
A61K 31/122
(11) EP3145536
(21) EP15779558.4
(22) 16.04.2015
(54) ENGINEERED TYROSINE AMMONIA LYASE
(73) Codexis, Inc.
(72) HUISMAN, Gjalt, W.
ELGART, David
ZHANG, Xiyun
AGARD, Nicholas, J.
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201461980167 P
(32) 16.04.2014
(33) United States of America
(47) 27.10.2021

(51) A61K 39/00
A61K 31/4745
A61K 31/513
A61K 31/519
A61P 35/00
(11) EP3446705
(21) EP18150455.6
(22) 05.01.2018
(54) [6R]-MTHF AN EFFICIENT FOLATE ALTERNATIVE IN 5-FLUOROURACIL BASED CHEMOTHERAPY
(73) Isofol Medical AB
(72) GUSTAVSSON, Bengt
LINDBERG, Per Lennart
VEDIN, Anders
SUNDÉN, Gunnel Elisabet
(31) 17187684
(32) 24.08.2017
(33) European Patent Office (EPO)
(47) 22.09.2021

(51) A61K 39/385
A61K 39/095
A61K 39/102
A61K 39/116
A61P 31/04
A61K 39/00
(11) EP3009146
(21) EP15189397.1
(22) 23.06.2006
(54) IMMUNOGENIC COMPOSITION
(73) Pfizer Ireland Pharmaceuticals
(72) DENOEL, Philippe
POOLMAN, Jan
BOUTRIAU, Dominique
CAPIAU, Carine
BIEMANS, Ralph, Leon
DUVIVIER, Pierre
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 0526041
0526040
0524204
0515556
0513071
0513069
(32) 21.12.2005
21.12.2005
28.11.2005
28.07.2005
27.06.2005
27.06.2005
(33) United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
(47) 20.10.2021

(51) A61K 47/36
A61K 9/50
(11) EP3062820
(21) EP14792784.2
(22) 27.10.2014
(54) METHODS FOR ENCAPSULATION AND MICROCAPSULES PRODUCED THEREBY
(73) Proteon Pharmaceuticals S.A.
(72) GORECKA, Elzbieta
AMBROZIAK, Wojciech
DZIADEK, Jaroslaw
(74) ir. W.J.J.M. Kempes
(31) 40582013
201410898
(32) 28.10.2013
19.06.2014
(33) Poland
United Kingdom
(47) 29.09.2021

(51) A61K 47/50
A61P 21/00
A61P 31/16
A61K 47/58
A61K 47/64
A61P 25/00
A61P 31/00
A61P 31/04
A61P 31/06
A61P 31/12
A61P 43/00
(11) EP3389719
(21) EP16876554.3
(22) 14.12.2016
(54) PEPTIDE OLIGONUCLEOTIDE CONJUGATES
(73) Sarepta Therapeutics, Inc.
(72) HANSON, Gunnar, J.
ZHOU, Ming
(74) ir. W.J.J.M. Kempes
(31) 201562267723 P
(32) 15.12.2015
(33) United States of America
(47) 17.11.2021

(51) A61K 47/68
A61K 47/60
A61K 38/17
A61K 38/16
A61P 1/16
A61K 38/26
A61P 3/06
A61P 3/10
(11) EP2838549
(21) EP13757286.3
(22) 08.03.2013
(54) PHARMACEUTICAL COMPOSITION FOR THE PREVENTION OR TREATMENT OF NON-ALCOHOLIC FATTY LIVER DISEASE
(73) Hanmi Science Co., Ltd.
(72) CHOI, In Young
PARK, Sung Hee
LIM, Se Young
SHIN, Ryoung Ae
KWON, Se Chang
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 20120024632
(32) 09.03.2012
(33) Korea (Republic)
(47) 22.09.2021

(51) A61L 27/16
A61L 27/50
A61L 24/00
A61L 24/06
C08F 265/06
C08L 33/12
(11) EP3052151
(21) EP14781628.4
(22) 30.09.2014
(54) A HARDENABLE MULTI-PART ACRYLIC COMPOSITION
(73) Mitsubishi Chemical UK Limited
(74) ir. W.J.J.M. Kempes
(31) 201317299
(32) 30.09.2013
(33) United Kingdom
(47) 03.11.2021

(51) A61L 27/16
C08L 25/18
C08L 27/10
C08L 29/02
A61F 2/16
(11) EP3458118
(21) EP17725837.3
(22) 15.05.2017
(54) HYDROPHOBIC INTRAOCULAR LENS
(73) Benz Research And Development Corporation
(72) REBOUL, Adam
BENZ, Patrick, H.
(74) ir. H.A. Witmans c.s.
(31) 201715481791
201662337318 P
(32) 07.04.2017
16.05.2016
(33) United States of America
United States of America

(47) 27.10.2021

(51) A61L 27/36
A61L 27/38
A61P 1/16
A61P 1/18
A61K 35/39
A61K 35/28
(11) EP3613447
(21) EP19193211.0
(22) 02.06.2015
(54) HUMAN PANCREAS SCAFFOLDS
(73) UCL Business Ltd
(72) AL-AKKAD, Walid
DE COPPI, Paolo
PINZANI, Massimo
MAZZA, Giuseppe
MALAGO, Massimo
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201409858
(32) 03.06.2014
(33) United Kingdom
(47) 24.11.2021

(51) A61M 1/00
G05D 1/02
B60L 53/36
(11) EP3700601
(21) EP18811387.2
(22) 23.10.2018
(54) AUTONOMOUS WASTE COLLECTION ASSEMBLY AND MEDICAL WASTE COLLECTION SYSTEM AND METHODS
(73) Stryker Corporation
(72) REASONER, Stephen, J.
MACLACHLAN, Brian
DOLLMAN, Tamitha, M.
STAATS, Andrew
(74) J.M.H. Duyver lic.
(31) 201762575833 P
(32) 23.10.2017
(33) United States of America
(47) 24.11.2021

(51) A61M 1/06
(11) EP3672657
(21) EP18768767.8
(22) 21.08.2018
(54) BABY MOUTH SIMULATOR
(73) MAM Baby AG
(72) Kurth, Elisabeth
(74) ir. F.A. Geurts c.s.
(31) 102017119034
(32) 21.08.2017
(33) Germany
(47) 13.10.2021

(51) A61M 5/168
A61M 5/142
(11) EP2841132
(21) EP13728549.0
(22) 15.03.2013
(54) APPARATUS FOR INFUSING FLUID
(73) DEKA Products Limited Partnership
(72) BIASI, John, J.
PAWLOWSKI, Daniel, F.
NORRIS, Michael, G.
PLACE, Michael, S.
MURPHY, Colin, H.
SABIN, Erik, N.
VAN DER MERWE, Dirk, A.
SLATE, Michael, J.
KAMEN, Dean
BLUMBERG, David, Jr.
BAIER, Michael, J.
THERRIEN, Alexander, R.
KERWIN, John, M.
GRAY, Larry, B.
LANGENFELD, Christopher, C.
PARKER, Jonathan
(74) ir. W.J.J.M. Kempes
(31) 201213724568
201213723244
201213723239
201213725790
201213723251
201213723253
201213723235
201213723242
201213723238
201261679117 P
201261651322 P
PCT/US2012/071112
PCT/US2012/071490
PCT/US2012/071131
PCT/US2012/071142
(32) 21.12.2012
21.12.2012
21.12.2012
21.12.2012
21.12.2012
21.12.2012
21.12.2012
21.12.2012
21.12.2012
03.08.2012
24.05.2012
21.12.2012
21.12.2012
21.12.2012
21.12.2012
(33) United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
World Intellectual Property Office (WIPO)
World Intellectual Property Office (WIPO)
World Intellectual Property Office (WIPO)
World Intellectual Property Office (WIPO)
(47) 20.10.2021

(51) A61M 5/20
(11) EP3233163
(21) EP15820801.7
(22) 18.12.2015
(54) DRUG DELIVERY DEVICE WITH PROXIMITY SENSOR
(73) Amgen Inc.
(72) MCCULLOUGH, Adam, B.
(74) ir. W.J.J.M. Kempes
(31) 201462094395 P
(32) 19.12.2014
(33) United States of America
(47) 13.10.2021

(51) A61M 5/20
A61M 5/30
A61M 5/31
(11) EP3773802
(21) EP19714178.1
(22) 26.03.2019
(54) DEVICE FOR APPLYING A FLUID
(73) Intervet International B.V.
(74) ir. H.A. Witmans c.s.
(31) 102018107100
(32) 26.03.2018
(33) Germany
(47) 03.11.2021

(51) A61M 5/24
A61M 5/315
A61B 5/145
A61B 5/15
A61B 5/151
A61M 5/31
G16H 40/63
G16H 20/17
A61B 5/157
(11) EP3311865
(21) EP17198256.4
(22) 20.11.2014
(54) MEDICAL DEVICE WITH SAFETY FEATURES
(73) Brighter AB (Publ)
(72) HALL, Leif
SJÖSTEDT, Truls
(74) ir. W.J.J.M. Kempes
(31) 1351376
(32) 20.11.2013
(33) Sweden
(47) 06.10.2021

(51) A61M 5/315
A61M 15/00
A61J 7/04
A61J 1/00
(11) EP2997510
(21) EP14730436.4
(22) 15.05.2014
(54) DEVICE FOR CONTROLLING THE INTAKE OF DRUGS, SYSTEM FOR SIGNALING AND CONTROLLING THE INTAKE OF DRUGS
(73) Amiko S.r.l.
(72) MACCHI, Fausto
(74) J.M.H. Duyver lic.
(31) CO20130017
(32) 16.05.2013
(33) Italy
(47) 20.10.2021

(51) A61M 11/04
A61M 15/00
A61M 16/20
A24F 47/00
A61J 1/03
(11) EP3160553
(21) EP15756490.7
(22) 30.06.2015
(54) DEVICE FOR VAPORIZATION AND INHALATION OF ISOLATED SUBSTANCES
(73) Syqe Medical Ltd.
(72) KROLL, Asaf
SCHORR, Aaron

SCHWARTZ, Binyamin
DAVIDSON, Perry
(74) ir. W.J.J.M. Kempes
(31) 201562164710 P
201462086208 P
201462085772 P
201462035588 P
201462019225 P
(32) 21.05.2015
02.12.2014
01.12.2014
11.08.2014
30.06.2014
(33) United States of America
United States of America
United States of America
United States of America
United States of America
(47) 20.10.2021

(51) A61M 11/04
A61M 15/06
A24F 40/40
A24F 40/51
(11) EP3695867
(21) EP20167756.4
(22) 19.05.2017
(54) AEROSOL DELIVERY DEVICE
(73) Nicoventures Trading Limited
(74) ir. W.J.J.M. Kempes
(31) 201610220
(32) 13.06.2016
(33) United Kingdom
(47) 03.11.2021

(51) A61M 16/08
(11) EP3648825
(21) EP18740522.0
(22) 28.06.2018
(54) NASAL CONTINUOUS POSITIVE AIRWAY PRESSURE DEVICE AND SYSTEM
(73) INNO3 APS
(72) RASMUSSEN, Ann-Christina, Lykke
MOTZFELDT, Michael
(74) ir. G.J.M. Verhees
(31) PA201700397
(32) 03.07.2017
(33) Denmark
(47) 29.09.2021

(51) A61M 25/10
(11) EP2968859
(21) EP14710119.0
(22) 21.02.2014
(54) BALLOON WITH SEAL STRESS REDUCTION AND METHOD OF PRODUCTION
(73) W. L. Gore & Associates, Inc.
(72) TRAPP, Benjamin, M.
GOEPFRICH, James, L.
GIARDINI, Seana
MAULDING, Matthew, E.
CAMPBELL, Carey, V.
(74) ir. W.J.J.M. Kempes
(31) 201414185223
201361799638 P
(32) 20.02.2014
15.03.2013
(33) United States of America
United States of America
(47) 13.10.2021

(51) A61M 39/24
F16K 15/14
(11) EP3256763
(21) EP16749682.7
(22) 09.02.2016
(54) UMBRELLA CHECK VALVE WITH REDUCED HEMOLYSIS
(73) Vernay Laboratories, Inc.
(72) FERGUSON, Robert
(74) J.M.H. Duyver lic.
(31) 201562113951 P
(32) 09.02.2015
(33) United States of America
(47) 01.12.2021

(51) A61N 1/05
A61B 17/12
(11) EP2211985
(21) EP08838055.5
(22) 10.10.2008
(54) A DEVICE FOR THE TREATMENT OF ANEURYSM
(73) Implantica Patent Ltd.
(72) FORSELL, Peter
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 960715 P
(32) 11.10.2007
(33) United States of America
(47) 29.09.2021

(51) A61N 1/32
A61N 1/04
(11) EP3500339
(21) EP17758749.0
(22) 18.08.2017
(54) PROLONGED SWEAT STIMULATION
(73) University of Cincinnati
(72) SIMMERS, Phillip
HEIKENFELD, Jason C.
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201662377087 P
(32) 19.08.2016
(33) United States of America
(47) 27.10.2021

(51) A61N 1/40
A61N 2/00
A61N 2/02
A61K 9/00
A61K 39/395
(11) EP3727579
(21) EP17818559.1
(22) 19.12.2017
(54) HEATABLE IMPLANT DEVICE FOR TUMOR TREATMENT
(73) Medical Development Technologies S.A.
(72) DE CLERCK, Luc
(74) ir. J.P.E. Brants
(47) 06.10.2021

(51) A61N 5/06
(11) EP3777973
(21) EP20190819.1
(22) 13.08.2020
(54) LIGHT APPLICATOR
(73) Richard Wolf GmbH
(72) GILLE, Stefan
LAMBERTZ, Matthias
WEBER, Bernd Claus
WIRTH, Manfred
(74) ir. H.A. Witmans c.s.
(31) 102019212202
(32) 14.08.2019
(33) Germany
(47) 13.10.2021

(51) A61N 7/00
A61B 8/00
A61B 18/00
(11) EP2964327
(21) EP14760810.3
(22) 28.02.2014
(54) DEVICES AND METHODS FOR MULTI-FOCUS ULTRASOUND THERAPY
(73) Ulthera, Inc.
(72) EMERY, Charles D.
(74) dr. W.A.H.M. Van Borm
(31) 201361774785 P
(32) 08.03.2013
(33) United States of America
(47) 10.11.2021

(51) A62D 3/33
B09B 3/00
C04B 18/04
C04B 18/06
C04B 18/08
F27B 7/10
F27D 7/02
A62D 101/24
A62D 101/43
(11) EP3175889
(21) EP15197405.2
(22) 02.12.2015
(54) DEVICE AND METHOD FOR CARBONATION OF ALKALINE SOLIDS
(73) Stadtwerke Gießen AG
Technische Hochschule Mittelhessen
(74) J.M.H. Duyver lic.
(47) 03.11.2021

(51) A63F 13/218
A63B 21/00
A63B 21/02
A63B 23/12
A63F 13/235
A63F 13/24
A63B 24/00
(11) EP3753612
(21) EP19204829.6
(22) 23.10.2019
(54) INPUT APPARATUS
(73) Nintendo Co., Ltd.
(72) NIWA, Masato
TAMURA, Yoshitaka
IKEDA, Tomofumi
TANIGUCHI, Yuki
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 2019114490
2019114489
(32) 20.06.2019
20.06.2019
(33) Japan
Japan
(47) 20.10.2021

(51) B01D 39/16
(11) EP3666360
(21) EP20154822.9
(22) 15.03.2017
(54) BICOMPONENT FIBERS COMPRISING RECYCLED POLYMERS

(73) Eurofilters N.V.
(72) SCHULTINK, Jan
SAUER, Ralf
(74) ir. W.J.J.M. Kempes
(31) 16192650
16192651
16178856
16178839
16160922
16160921
(32) 06.10.2016
06.10.2016
11.07.2016
11.07.2016
17.03.2016
17.03.2016
(33) European Patent Office (EPO)
European Patent Office (EPO)
European Patent Office (EPO)
European Patent Office (EPO)
European Patent Office (EPO)
European Patent Office (EPO)
(47) 15.09.2021

(51) B01D 46/24
B01J 20/28
(11) EP3171961
(21) EP15744156.9
(22) 22.07.2015
(54) HONEYCOMB MONOLITH STRUCTURE
(73) YARA International ASA
(72) SKAU, Karl Isak
(74) J.M.H. Duyver Iic.
(31) 20140934
(32) 23.07.2014
(33) Norway
(47) 08.12.2021

(51) B01D 53/02
B01J 20/18
(11) EP2846895
(21) EP13714434.1
(22) 15.03.2013
(54) MATERIALS, METHODS, AND DEVICES FOR SILOXANE CONTAMINANT REMOVAL
(73) Donaldson Company, Inc.
(72) WEINECK, Gerald
VISWANATHAN, Karthik
DALLAS, Andrew J.
HOANG, Brian N.
(74) ir. H.A. Witmans c.s.
(31) 201261643732 P
(32) 07.05.2012
(33) United States of America
(47) 15.12.2021

(51) B01D 53/14
(11) EP3708241
(21) EP20171430.0
(22) 27.07.2011
(54) C02 RECOVERY SYSTEM
(73) Mitsubishi Heavy Industries Engineering, Ltd.
The Kansai Electric Power Co., Inc.
(72) IIJIMA, Masaki
TATSUMI, Masahiko
YAGI, Yasuyuki
(74) ir. W.J.J.M. Kempes
(31) 2010268865
(32) 01.12.2010
(33) Japan
(47) 08.12.2021

(51) B01D 67/00
B01D 71/42
(11) EP3068522
(21) EP14796504.0
(22) 12.11.2014
(54) METHOD FOR PRODUCING SOLVENT-STABLE POLYMER MEMBRANES, POLYMER MEMBRANE, AND SOLUTION FOR PRODUCING A POLYMER MEMBRANE
(73) Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.
(72) FRITSCH, Detlev
(74) ir. W.J.J.M. Kempes
(31) 102013223126
(32) 13.11.2013
(33) Germany
(47) 06.10.2021

(51) B01F 3/04
B01F 5/04
C02F 1/20
C02F 1/68
C02F 1/66
B67D 1/00
(11) EP3281690
(21) EP16748810.5
(22) 10.02.2016
(54) SYSTEM AND METHOD FOR REACTING OR MIXING LIQUID/GAS
(73) ECO2MIX INC.
(72) DURAND, Luis
MORAGA, Waldo
(74) ir. J.D. de Zeeuw
(31) 201500329
(32) 11.02.2015
(33) Chile
(47) 22.09.2021

(51) B01J 8/00
B01J 19/30
B01J 19/32
B01J 8/44
B01D 3/22
(11) EP3313563
(21) EP16738936.0
(22) 25.06.2016
(54) A FLUID SOLIDS CONTACTING DEVICE
(73) Dow Global Technologies LLC
(72) SANDOVAL, Fermin A.
SHAW, Don F.
PRETZ, Matthew T.
(74) ir. J.D. de Zeeuw
(31) 201514751424
(32) 26.06.2015
(33) United States of America
(47) 13.10.2021

(51) B01J 19/26
B01J 4/00
B01F 5/02
B01J 2/02
(11) EP3641931
(21) EP18734765.3
(22) 18.06.2018
(54) FLUID REACTOR
(73) leon-nanodrugs GmbH
(72) WALTER, Moriz
BOTT, Mario
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 102017210202
(32) 19.06.2017
(33) Germany
(47) 22.09.2021

(51) B01J 23/42
B01J 23/44
B01J 23/52
C07C 51/235
C07C 55/14
B01J 21/06
B01J 35/10
(11) EP3363537
(21) EP18166286.7
(22) 11.06.2013
(54) PROCESS FOR PRODUCTION OF ADIPIC ACID FROM 1,6-HEXANEDIOL
(73) Archer-Daniels-Midland Company
(72) SHOEMAKER, James A.W.
MURPHY, Vincent J.
DIAS, Eric L.
(74) J.M.H. Duyver Iic.
(31) 201261658364 P
(32) 11.06.2012
(33) United States of America
(47) 20.10.2021

(51) B01J 31/18
C07C 2/36
(11) EP3463654
(21) EP17726435.5
(22) 17.05.2017
(54) CATALYST SYSTEMS AND ETHYLENE OLIGOMERIZATION METHOD
(73) Chevron Phillips Chemical Company LP
(72) SYDORA, Orson
KILGORE, Uriah
BISCHOF, Steven
(74) ir. C.G.C. Veldman-Dijkers
(31) 201615171170
(32) 02.06.2016
(33) United States of America
(47) 13.10.2021

(51) B01J 37/08
B01J 37/04
B01J 37/03
B01J 37/00
B01J 23/30
B01J 23/28
B01J 23/00
B01J 35/02
C07C 253/24
C07C 255/08
C07B 61/00
C07C 51/215
C07C 57/04
(11) EP3513876
(21) EP17850830.5
(22) 08.09.2017
(54) METHOD FOR PRODUCING OXIDE CATALYST AND METHOD FOR PRODUCING UNSATURATED NITRILE OR UNSATURATED ACID
(73) ASAHI KASEI KABUSHIKI KAISHA
(72) KADOWAKI, Minoru
TATENO, Eri
(74) J.M.H. Duyver Iic.

(31) 2016178885
(32) 13.09.2016
(33) Japan
(47) 01.12.2021

(51) B01J 38/42
B01J 38/44
B01J 38/46
B01J 29/90
B01J 29/60
C10G 35/095
C10G 35/04
C10G 35/06
(11) EP3624940
(21) EP18731934.8
(22) 16.05.2018
(54) METHODS OF REGENERATING AROMATIZATION CATALYSTS WITH A DECOKING STEP BETWEEN CHLORINE AND FLUORINE ADDITION
(73) Chevron Phillips Chemical Company LP
(72) ALVEZ-MANOLI, Gabriela
(74) ir. F.A. Geurts c.s.
(31) 201715597189
(32) 17.05.2017
(33) United States of America
(47) 01.12.2021

(51) B01L 3/02
B01L 3/00
G01N 1/28
(11) EP3271075
(21) EP16721856.9
(22) 18.03.2016
(54) DEVICE FOR PREPARING A LAYER OF BIOLOGICAL CELLS ON A SLIDE AND APPARATUS FOR AUTOMATICALLY PREPARING A LAYER OF CELLS USING SAID DEVICE
(73) R.A.L. Diagnostics
(72) LE COMTE, Roger, Lucien, Marie
(74) dr. W.A.H.M. Van Borm
(31) 1552214
(32) 18.03.2015
(33) France
(47) 15.09.2021

(51) B01L 9/00
B01J 19/00
G01N 35/10
B01L 3/00
G01N 33/543
G01N 33/558
G01N 35/04
(11) EP3326719
(21) EP17202132.1
(22) 16.11.2017
(54) FLOW CELL ASSEMBLY SECUREMENT SYSTEM AND METHOD
(73) Illumina, Inc.
(72) Kehl, Patrick
de Ruyter, Anthony
McGee, Thomas
(74) ir. W.J.J.M. Kempes
(31) 2017853
201615359848
(32) 23.11.2016
23.11.2016
(33) Netherlands
United States of America
(47) 06.10.2021

(51) B03C 5/00
B03C 5/02
(11) EP2010331
(21) EP07734282.2
(22) 12.04.2007
(54) METHODS FOR THE SELECTION AND/OR PROCESSING OF PARTICLES FOR SELECTIVE AND/OR OPTIMIZED LYSIS OF CELLS
(73) Menarini Silicon Biosystems S.p.A.
(72) MANARESI, Nicolò
ABONNENC, Mélanie
MEDORO, Gianni
(74) ir. F.A. Geurts c.s.
(31) TO20060273
(32) 12.04.2006
(33) Italy
(47) 27.10.2021

(51) B05C 17/005
(11) EP3542908
(21) EP19162651.4
(22) 13.03.2019
(54) GUIDING DEVICE FOR A CARTRIDGE SPRAY
(73) Tomasello, Antonio
(72) Tomasello, Antonio
(74) dr. W.A.H.M. Van Borm
(31) 102018106597
(32) 21.03.2018
(33) Germany
(47) 27.10.2021

(51) B05C 17/005
B05C 17/01
A61M 5/20
A61M 5/315
A61J 7/00
A61D 7/00
(11) EP3099421
(21) EP15741013.5
(22) 27.01.2015
(54) A FLUID DISPENSER
(73) Te Pari Products Limited
(72) BUCKLEY, Paul Fleming
LYND, Malcolm
(74) ir. A. Blokland c.s.
(31) 70083014
63151914
62825714
63143914
(32) 12.09.2014
12.09.2014
04.08.2014
27.01.2014
(33) New Zealand
New Zealand
New Zealand
New Zealand
(47) 06.10.2021

(51) B05D 7/24
(11) EP2627456
(21) EP11833466.3
(22) 14.10.2011
(54) LIGHTWEIGHT TERRAZZO SURFACE COMPOSITION
(73) Yasui, Arnold
Quaker Chemical Corporation
(72) YASUI, Arnold
(74) ir. A. Blokland c.s.
(31) 393637 P
(32) 15.10.2010
(33) United States of America
(47) 08.12.2021

(51) B06B 3/04
G10K 11/30
A61B 8/00
A61B 8/08
(11) EP3317027
(21) EP16744443.9
(22) 30.06.2016
(54) INSONIFICATION METHOD FOR OBTAINING A PREDETERMINED FIELD OF ULTRASONIC WAVES, AND MANUFACTURING METHOD FOR OBTAINING AN ULTRASONIC LENS FOR SUCH PURPOSE
(73) INSERM (Institut National de la Santé et de la Recherche Médicale)
Centre National de la Recherche Scientifique (CNRS)
(72) AUBRY, Jean-François
TANTER, Mickaël
PERNOT, Mathieu
DEFFIEUX, Thomas
(74) dr. ir. G.J.C. Verdijck c.s.
(31) 1556217
(32) 01.07.2015
(33) France
(47) 29.09.2021

(51) B07B 13/16
B07B 1/06
B07B 1/55
B65G 65/48
B65D 83/06
G03G 9/08
B07B 4/08
(11) EP2500111
(21) EP12159721.5
(22) 15.03.2012
(54) Sieving device
(73) Ricoh Company, Ltd.
(72) Ozeki, Kaori
Terazawa, Seiji
Suzuki, Masayoshi
Sano, Hiroshi
Ono, Takashi
Uchida, Yusuke
Hasegawa, Masashi
Suzuki, Masato
Umayahara, Tatsushi
Yano, Keiichi
Ichikawa, Hideo
Masushio, Eiichi
Yamabe, Junji
Shibata,, Teruo
(74) ir. H.A. Witmans c.s.
(31) 2012011246
2012008313
2012008301
2011059483
(32) 23.01.2012
18.01.2012
18.01.2012
17.03.2011
(33) Japan
Japan
Japan

Japan
(47) 10.11.2021

(51) B08B 7/00
B08B 9/00
F27B 11/00
B29C 33/72
(11) EP3287200
(21) EP17184971.4
(22) 04.08.2017
(54) OVEN AND METHOD FOR CLEANING MOLDS, DIE NOZZLES AND COMPONENTS FOR APPARATUSES FOR PROCESSING PLASTIC MATERIALS IN GENERAL
(73) Petrelli, Patrizio
(72) Petrelli, Patrizio
(74) ir. J.C. Volmer c.s.
(31) 201600087451
(32) 26.08.2016
(33) Italy
(47) 22.09.2021

(51) B21C 37/18
B21C 37/06
B21C 37/08
B21C 37/083
B21C 37/12
B21C 37/14
(11) EP3507031
(21) EP17847545.5
(22) 31.08.2017
(54) SHEET TRANSITIONING IN SPIRAL FORMED STRUCTURES
(73) Keystone Tower Systems, Inc.
(72) BRIDGERS, Loren, Daniel
TAKATA, Rosalind, K.
SMITH, Eric, D.
(74) ir. H.A. Witmans c.s.
(31) 201662381749 P
(32) 31.08.2016
(33) United States of America
(47) 06.10.2021

(51) B21D 51/44
B29C 65/00
B65D 17/50
(11) EP3697548
(21) EP18785407.0
(22) 17.10.2018
(54) LID FOR A METAL CAN, COMPRISING A METAL RING AND A PEELABLE, HEAT-SEALED MEMBRANE
(73) Trivium Packaging Group Netherlands B.V.
(72) DELTOUR, Bernard
LE TALLUDEC, Alain
(74) J.M.H. Duyver lic.
(31) 1759923
(32) 20.10.2017
(33) France
(47) 17.11.2021

(51) B22F 10/28
B22F 1/00
H01J 37/305
H01J 37/32
B33Y 10/00
B33Y 30/00
B33Y 40/00
B29C 64/153
B29C 64/35
B33Y 70/00
H01J 37/02
H01J 37/317
B22F 12/00
B22F 10/32
B22F 10/34
B22F 12/52
B33Y 40/10
(11) EP3570973
(21) EP18700704.2
(22) 09.01.2018
(54) ADDITIVE MANUFACTURING PROCESS
(73) Universität Innsbruck
(72) KASERER, Lukas
STAJKOVIC, Janko
LEICHTFRIED, Gerhard Johannes
BRAUN, Jakob
(74) J.M.H. Duyver lic.
(31) 5000517 U
(32) 17.01.2017
(33) Austria
(47) 06.10.2021

(51) B23B 27/08
B23B 29/04
(11) EP3756801
(21) EP20164897.9
(22) 23.03.2020
(54) CLAMP HOLDER
(73) ZCC Cutting Tools Europe GmbH
(72) Agustin-Paya, José
Weißschnur, Jan
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 102019116864
(32) 24.06.2019
(33) Germany
(47) 29.09.2021

(51) B23K 9/20
(11) EP3694673
(21) EP18780118.8
(22) 02.10.2018
(54) FIXING METHOD
(73) Hilti Aktiengesellschaft
(72) STAHEL, Simon
POPP, Uwe
(74) ir. H.A. Witmans c.s.
(31) 17195387
(32) 09.10.2017
(33) European Patent Office (EPO)
(47) 01.12.2021

(51) B23K 10/02
H05H 1/34
(11) EP3180151
(21) EP15753837.2
(22) 12.08.2015
(54) COST EFFECTIVE CARTRIDGE FOR A PLASMA ARC TORCH
(73) Hypertherm, Inc.
(74) J.M.H. Duyver lic.
(31) 201462036393 P
(32) 12.08.2014
(33) United States of America
(47) 03.11.2021

(51) B23K 11/00
B23K 11/11
B23K 11/18
H01M 50/543
H01M 4/66
B23K 11/34
B23K 11/36
B23K 101/18
B23K 101/36
B23K 101/38
B23K 103/10
B23K 103/12
B23K 103/18
(11) EP3508299
(21) EP17846742.9
(22) 04.09.2017
(54) METHOD FOR MANUFACTURING LAMINATED METAL FOIL
(73) Nag System Co., Ltd.
(72) ASADA, Takahiro
(74) ir. H.A. Witmans c.s.
(31) 2016173079
(32) 05.09.2016
(33) Japan
(47) 24.11.2021

(51) B23K 11/11
B23K 11/31
B23K 11/30
B23K 11/36
(11) EP3508300
(21) EP17846741.1
(22) 04.09.2017
(54) RESISTANCE-WELDING EQUIPMENT
(73) Nag System Co., Ltd.
(72) ASADA, Takahiro
WADA, Keiji
(74) ir. H.A. Witmans c.s.
(31) 2016172957
(32) 05.09.2016
(33) Japan
(47) 24.11.2021

(51) B23K 26/035
B23K 26/044
B23K 37/02
(11) EP3424636
(21) EP18176517.3
(22) 07.06.2018
(54) LASER WELDING SYSTEM, COMPRISING A PROPULSION DEVICE, A PROCESSING LENS AND AT LEAST ONE TACTILE GUIDING DEVICE
(73) Photon AG
(72) NEUMANN, Steffen
ALDER, Holger
KRULL, Dietmar
REMPT, Michael
(74) ir. W.J.J.M. Kempes
(31) 102017113652
(32) 21.06.2017
(33) Germany
(47) 17.11.2021

(51) B23K 26/26
B23K 26/322
B23K 26/30
B23K 9/167
B23K 9/173
B23K 26/362
B23K 26/40
B23K 28/02
B23K 26/348
B23K 26/211
B23K 26/60

B23K 26/361
B23K 101/00
B23K 101/18
B23K 101/34
B23K 103/04
B23K 103/08
(11) EP3520952
(21) EP19176023.0
(22) 17.04.2015
(54) DEVICE FOR MANUFACTURING WELDED FLANGES COMPRISING A LASER SOURCE FOR REMOVING BY MELTING AND VAPORISATION ALUMINIUM BASE LAYER AND A WELDING DEVICE
(73) ArcelorMittal
(72) EHLING, Wolfram
SCHMIT, Francis
YIN, Qingdong
VIERSTRAETE, René
(74) ir. M.F.J.M. Ketelaars c.s.
(31) PCT/IB2014/000612
(32) 25.04.2014
(33) World Intellectual Property Office (WIPO)
(47) 20.10.2021

(51) B23K 26/364
F16K 17/16
(11) EP3288707
(21) EP16726948.9
(22) 22.04.2016
(54) METHOD FOR MAKING A SAFETY OR RUPTURE ELEMENT
(73) Donadon Safety Discs and Devices S.R.L.
(72) MODENA, Mario
DONADON, Antonio
BOSISIO, Lauro
(74) ir. M.F.J.M. Ketelaars c.s.
(31) MI20150599
(32) 28.04.2015
(33) Italy
(47) 10.11.2021

(51) B24C 1/04
B26F 3/00
B23Q 17/22
B24C 5/02
B26D 5/00
(11) EP2990159
(21) EP15177203.5
(22) 17.07.2015
(54) WATER-JET CUTTING MACHINE
(73) STM Waterjet AG
(72) MOSER, Jürgen
(74) ir. W.J.J.M. Kempes
(31) 506002014
(32) 29.08.2014
(33) Austria
(47) 10.11.2021

(51) B25J 1/08
B25J 21/00
G21F 7/005
(11) EP3581339
(21) EP19178364.6
(22) 05.06.2019
(54) TRANSFER SYSTEM FOR A SEALED ENCLOSURE COMPRISING A SEALED CONNECTION DEVICE WITH A CLOSED VOLUME
(73) Getinge La Calhene
(72) AUBERT, Arthur
DANIEL, Wenceslas
(74) ir. F.A. Geurts c.s.
(31) 1855085
(32) 11.06.2018
(33) France
(47) 29.09.2021

(51) B25J 9/00
B23Q 7/00
(11) EP3313624
(21) EP16733027.3
(22) 21.06.2016
(54) FEEDING SYSTEM FOR WORKPIECES
(73) EasyRobotics APS
(72) LACHENMEIER, Per
(74) mr. ir. J. van Breda c.s.
(31) 102015110453
(32) 29.06.2015
(33) Germany
(47) 24.11.2021

(51) B25J 13/08
B25J 9/16
B25J 5/00
B25J 19/04
B25J 13/00
B25J 13/02
B25J 13/06
B25J 19/02
G05D 1/00
(11) EP3094452
(21) EP14877905.1
(22) 10.11.2014
(54) REMOTELY OPERATING A MOBILE ROBOT
(73) iRobot Defense Holdings, Inc.
(72) SMITH, Eric
PONSLER, Brett
LABRECQUE, Andrew
HOFFMAN, Orin, P.F.
WANG, John
KEEFE, Peter
(74) ir. W.J.J.M. Kempes
(31) 201414507653
201461924433 P
(32) 06.10.2014
07.01.2014
(33) United States of America
United States of America
(47) 13.10.2021

(51) B25J 15/02
B25J 15/08
B65G 47/90
(11) EP3562632
(21) EP17889411.9
(22) 22.12.2017
(54) GRIPPER APPARATUS
(73) CSi Industries B.V.
(72) LEUSINK, Hendrik
(74) drs. O. Griebling
(31) 1042206
(32) 30.12.2016
(33) Netherlands
(47) 13.10.2021

(51) B25J 15/08
H05K 13/04
B25B 5/02
B25B 11/00
(11) EP3357652
(21) EP15905336.2
(22) 29.09.2015
(54) COMPONENT CHUCK DEVICE AND COMPONENT MOUNTING DEVICE
(73) FUJI Corporation
(72) OTSUBO, Satoru
YAMAMURO, Junichi
(74) ir. M.F.J.M. Ketelaars c.s.
(47) 27.10.2021

(51) B26B 5/00
(11) EP3470185
(21) EP18181131.6
(22) 02.07.2018
(54) KNIFE
(73) Martor KG
(72) Herlitz, Martin
(74) ir. F.A. Geurts c.s.
(31) 102017009630
(32) 16.10.2017
(33) Germany
(47) 27.10.2021

(51) B26B 19/38
B26B 19/26
B26B 19/48
(11) EP3300864
(21) EP16191117.7
(22) 28.09.2016
(54) ELECTRIC SHAVER
(73) Braun GmbH
(72) Laschinski, Gerd
Erndt, Andreas
Stegmann, Wolfgang
Perez Lopez, Cirilo Javier
(47) 15.12.2021

(51) B26B 19/38
B26B 19/46
(11) EP3450120
(21) EP17188555.1
(22) 30.08.2017
(54) PERSONAL CARE DEVICE
(73) Braun GmbH
(72) Fuellgrabe, Martin
Zechel, Evelyn Marion
Fuerst, Stefan
Neyer, Christian
(47) 15.12.2021

(51) B26B 21/00
B26B 21/22
B26B 21/40
B26B 21/44
B26B 21/52
(11) EP3113917
(21) EP15759152.0
(22) 05.03.2015
(54) DUAL SIDED RAZOR
(73) Mack-Ray, Inc.
(72) LIBERATORE, Raymond A.
(74) ir. W.J.J.M. Kempes
(31) 201461948203 P
(32) 05.03.2014
(33) United States of America
(47) 15.09.2021

(51) B26B 25/00
B26B 29/00
(11) EP3771534
(21) EP20182874.6

(22) 29.06.2020
(54) ROLLER CUTTER WITH INTERCHANGEABLE BLADE
(73) William Prym GmbH & Co. KG
(72) PAPENFUSS, Andreas
(74) ir. W.J.J.M. Kempes
(31) 202019104152 U
(32) 29.07.2019
(33) Germany
(47) 10.11.2021

(51) B26D 1/08
B26D 5/14
B26D 7/00
B26D 5/12
(11) EP2907629
(21) EP15154867.4
(22) 12.02.2015
(54) Cutting machine and method for influencing the deformation of the machine frame
(73) PERFECTA Schneidemaschinenwerk GmbH Bautzen
(72) Kaulitz, Thomas, Dr. Ing.
Voigt, Peter
Neumann, Jann
(74) ir. J.C. Volmer c.s.
(31) 102014101848
(32) 13.02.2014
(33) Germany
(47) 13.10.2021

(51) B26D 1/36
B26D 3/00
B26D 3/26
(11) EP3243613
(21) EP17173134.2
(22) 23.04.2013
(54) METHODS AND EQUIPMENT FOR CUTTING FOOD PRODUCTS
(73) URSCHEL LABORATORIES, INC.
(72) JACKO, Michael Scot
MAHAFFEY II, Thomas R.
KING, Daniel Wade
(74) ir. F.A. Geurts c.s.
(31) 201261636769 P
(32) 23.04.2012
(33) United States of America
(47) 20.10.2021

(51) B28B 13/02
B30B 15/30
(11) EP3730261
(21) EP20171088.6
(22) 23.04.2020
(54) DEVICE AND METHOD FOR THE PRODUCTION OF CONCRETE ARTICLES
(73) Ebema, Naamloze Vennootschap
(72) PANIS, Bert
(31) 201905283
(32) 26.04.2019
(33) Belgium
(47) 08.12.2021

(51) B28C 7/02
B28C 7/04
B28C 7/12
(11) EP3585579
(21) EP18725649.0
(22) 26.04.2018
(54) APPARATUS AND METHOD FOR PRODUCING FLUID CONCRETE
(73) Simem S.p.A.
(72) FURLANI, Michele
(74) dr. A. Krebs
(31) 201700045104
(32) 26.04.2017
(33) Italy
(47) 20.10.2021

(51) B29B 11/14
B29C 49/00
B29C 49/24
B29C 63/42
B65D 1/02
B29K 105/02
B65D 23/08
B29C 49/06
B29C 49/22
B29C 49/04
(11) EP3473405
(21) EP17813443.3
(22) 16.06.2017
(54) COMPOSITE PREFORM, METHOD FOR MANUFACTURING THE SAME, COMPOSITE CONTAINER, METHOD FOR MANUFACTURING SAID COMPOSITE CONTAINER, AND HEAT SHRINKABLE PLASTIC MEMBER
(73) Dai Nippon Printing Co., Ltd.
(74) ir. F.A. Geurts c.s.
(31) 2017117022
2017109490
2017109297
2016181905
2016121027
(32) 14.06.2017
01.06.2017
01.06.2017
16.09.2016
17.06.2016
(33) Japan
Japan
Japan
Japan
Japan
(47) 03.11.2021

(51) B29C 31/04
B29C 45/18
B29C 31/06
(11) EP3661714
(21) EP18759236.5
(22) 01.08.2018
(54) APPARATUS FOR FEEDING SINGLE GRAINS TO A PROCESSING MACHINE, IN PARTICULAR AN INJECTION MOLDING MACHINE
(73) Wittmann Technology GmbH
(72) FUX, Erhard
(74) dr. A. Krebs
(31) 506472017
(32) 03.08.2017
(33) Austria
(47) 01.12.2021

(51) B29C 41/14
A41D 19/00
A61B 42/10
(11) EP3434437
(21) EP18179349.8
(22) 22.06.2018
(54) ELASTOMERIC GLOVES AND METHODS FOR THEIR PRODUCTION
(73) Skinprotect Corporation SDN BHD
(72) PRABHAKARAN, Kumaresan
FOO, Khon Pu
(74) dr. W.A.H.M. Van Borm
(31) 2017902922
201762536887 P
(32) 25.07.2017
25.07.2017
(33) Australia
United States of America
(47) 29.09.2021

(51) B29C 45/16
B32B 3/06
(11) EP3283268
(21) EP16725941.5
(22) 13.04.2016
(54) MULTILAYERED INJECTION MOLDED INTERLACE-LIKE ARTICLE AND METHOD FOR MOLDING SAME
(73) Keter Plastic Ltd.
(72) ELIYAHU, Nisim
VIZEN, Nimrod
(74) ir. H.A. Witmans c.s.
(31) 201562146554 P
(32) 13.04.2015
(33) United States of America
(47) 22.09.2021

(51) B29C 48/25
B29C 48/41
F16D 1/10
B29B 7/48
F16D 3/06
B30B 15/12
(11) EP3378624
(21) EP18163451.0
(22) 22.03.2018
(54) OVERLOAD COUPLING FOR A DOUBLE SCREW EXTRUDER
(73) Veka AG
(72) Schuler, Werner
(74) ir. W.J.J.M. Kempes
(31) 102017106454
(32) 24.03.2017
(33) Germany
(47) 06.10.2021

(51) B29C 53/30
B29C 48/13
B29C 48/21
B29C 48/335
(11) EP3529043
(21) EP17862958.0
(22) 20.10.2017
(54) PULSATING PIPE MOLD WITH SPIGOT CONNECTOR
(73) Lupke, Manfred A. A.
Lupke, Stefan A.
(72) Lupke, Stefan A.
Lupke, Manfred A. A.
(74) ir. W.J.J.M. Kempes
(31) 2946104
(32) 21.10.2016
(33) Canada
(47) 29.09.2021

(51) B29C 64/106
B33Y 10/00

B33Y 30/00
B29C 64/295
B29C 64/227
(11) EP3500418
(21) EP17761676.0
(22) 22.08.2017
(54) MULTIPLE AXIS ROBOTIC ADDITIVE MANUFACTURING SYSTEM AND METHODS
(73) Stratasys, Inc.
(72) NEWELL, Clint
(74) ir. A.R. Aalbers
(31) 201662378024 P
(32) 22.08.2016
(33) United States of America
(47) 29.09.2021

(51) B29C 64/393
B29C 64/153
(11) EP3260276
(21) EP17175753.7
(22) 13.06.2017
(54) AUTOMATIC ADJUSTMENT OF A HEATING CONTROL DEVICE IN A GENERATIVE LAYER-BASED CONSTRUCTION DEVICE
(73) EOS GmbH Electro Optical Systems
(72) FRUTH, Albert
KELLER, Peter
SCHMIDTNER, Markus
(74) dr. ir. G.J.C. Verdijck c.s.
(31) 102016211313
(32) 23.06.2016
(33) Germany
(47) 06.10.2021

(51) B29D 23/00
B29C 70/02
B29C 53/58
B29C 53/60
B29C 67/02
B29C 63/18
B29C 63/24
B29C 53/08
(11) EP3107718
(21) EP15716856.8
(22) 18.02.2015
(54) FIBRE REINFORCED POLYMER MATRIX COMPOSITE PIPES
(73) Sigma Precision Components (UK) Limited
(72) HYSON, Graeme
(74) J.M.H. Duyver lic.
(31) 201402891
(32) 18.02.2014
(33) United Kingdom
(47) 06.10.2021

(51) B29D 30/00
B29D 30/02
B60C 7/22
B60C 7/18
(11) EP3393771
(21) EP16805632.3
(22) 15.11.2016
(54) REINFORCEMENT STRUCTURE FOR NON-PNEUMATIC WHEEL
(73) Compagnie Générale des Etablissements Michelin
(72) CRON, Steve
RHYNE, Timothy
DELFINO, Antonio
(74) ir. H.A. Witmans c.s.
(31) PCT/US2015/067371
(32) 22.12.2015
(33) World Intellectual Property Office (WIPO)
(47) 13.10.2021

(51) B32B 15/01
C21D 6/00
C21D 8/02
C21D 9/46
C21D 1/22
C22C 38/02
C22C 38/04
C22C 38/06
C23C 2/40
C22C 38/38
C22C 18/00
C23C 2/28
C23C 2/02
C22C 38/26
C21D 1/18
C23C 2/06
(11) EP3653737
(21) EP19216515.7
(22) 21.12.2016
(54) METHOD FOR PRODUCING A STEEL SHEET HAVING IMPROVED STRENGTH, DUCTILITY AND FORMABILITY
(73) ArcelorMittal
(72) JUN, Hyun Jo
VENKATASURYA, Pavan
(74) ir. M.F.J.M. Ketelaars c.s.
(31) PCT/IB2015/059837
(32) 21.12.2015
(33) World Intellectual Property Office (WIPO)
(47) 27.10.2021

(51) B32B 17/10
C03B 33/07
C03B 23/023
C03B 23/025
C03B 23/03
C03B 23/035
C03B 27/004
C03B 27/04
C03B 27/044
(11) EP2766184
(21) EP12780249.4
(22) 12.10.2012
(54) PRODUCTION OF A LAMINATED GLASS PANEL
(73) SAINT-GOBAIN GLASS FRANCE
(72) HENNION, Alexandre
FREBOURG, Philippe
BERARD, Stéphane
(74) ir. W.J.J.M. Kempes
(31) 1159322
(32) 14.10.2011
(33) France
(47) 08.12.2021

(51) B32B 17/10
C09J 7/00
(11) EP3756882
(21) EP19182209.7
(22) 25.06.2019
(54) VEHICLE COMPOSITE DISC WITH SENSOR AREA AND CURVED THERMOPLASTIC INTERMEDIATE LAYER IN THE SENSOR AREA
(73) SAINT-GOBAIN GLASS FRANCE
(72) BREUER, Simon
BORCHMANN, Nikolai
BUTHMANN, Sascha
(74) ir. F.A. Geurts c.s.
(47) 17.11.2021

(51) B32B 25/08
B32B 27/12
B32B 27/30
B32B 27/32
B32B 27/34
B32B 27/36
E04D 5/06
E04D 5/10
B32B 27/28
(11) EP3235637
(21) EP17167596.0
(22) 21.04.2017
(54) COVER LAMINATE OR COATING SYSTEM
(73) ICOPAL DANMARK ApS
(72) SIMONIS, Udo
GLUECK, Johannes
(74) ir. H.A. Witmans c.s.
(31) 102016107418
(32) 21.04.2016
(33) Germany
(47) 20.10.2021

(51) B32B 27/12
(11) EP2454090
(21) EP10790054.0
(22) 15.06.2010
(54) FIBER COMPOSITE AND PROCESS OF MANUFACTURE
(73) Xene Corporation
(72) SHENG, Hsu Chien
(31) 200910040320
285051 P
(32) 18.06.2009
09.12.2009
(33) China
United States of America
(47) 25.08.2021

(51) B32B 27/30
B32B 27/18
B32B 7/02
B32B 37/00
B32B 37/10
B44C 1/17
H01L 51/00
H01L 51/52
(11) EP2961601
(21) EP14756801.8
(22) 17.02.2014
(54) LAMINATION TRANSFER FILMS FOR FORMING EMBEDDED NANOSTRUCTURES
(73) 3M Innovative Properties Company
(72) VOGEL-MARTIN, Margaret M.
BENSON, Olester Jr.
SCHWARTZ, Evan L.
FREE, Michael Benton
KAMRATH, Robert F.
MAZUREK, Mieczyslaw H.
COLLIER, Terry O.
WOLK, Martin B.

(31) 201313778276
(32) 27.02.2013
(33) United States of America
(47) 08.12.2021

(51) B41F 11/02
B41F 19/00
B41F 19/02
(11) EP3434482
(21) EP17770073.9
(22) 15.03.2017
(54) DOUBLE-SIDED VARNISHING APPARATUS
(73) Komori Corporation
(72) KAMODA,Hiroyoshi
(74) ir. A. Blokland c.s.
(31) 2016056663
(32) 22.03.2016
(33) Japan
(47) 15.12.2021

(51) B41F 23/04
B41J 11/00
(11) EP3530460
(21) EP19156474.9
(22) 11.02.2019
(54) CURING CHAMBER FOR PRINTED PRODUCTS
(73) Hapa AG
(72) HOWALD, Nicole
COLOMBO, René
SIMON, Sascha
RRAHIMI, Migjen
BRAUN, Stefan
HOLDENER, Marcel
THEILER, Matthias
(74) ir. H.A. Witmans c.s.
(31) 2232018
(32) 23.02.2018
(33) Switzerland
(47) 20.10.2021

(51) B41J 2/01
B44C 5/04
C09D 11/30
B41J 2/21
(11) EP3463895
(21) EP17803499.7
(22) 24.05.2017
(54) INTEGRATION OF A LINE-SCAN CAMERA ON A SINGLE PASS INKJET PRINTER
(73) Electronics for Imaging, Inc.
(72) STEVEN, Billow, A.
DZIESIETNIK, Ghilad
(74) ir. F.A. Geurts c.s.
(31) 201715603304
201662340984 P
(32) 23.05.2017
24.05.2016
(33) United States of America
United States of America
(47) 29.09.2021

(51) B41J 2/045
G11C 7/10
G11C 19/28
(11) EP3710262
(21) EP19706141.9
(22) 06.02.2019
(54) ACCESSING REGISTERS OF FLUID EJECTION DEVICES
(73) HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.
(72) CUMBIE, Michael W.
LINN, Scott A.
GARDNER, James Michael
(74) dr. W.A.H.M. Van Borm
(47) 10.11.2021

(51) B41J 3/407
B41J 3/54
B41J 3/62
(11) EP3411238
(21) EP17745031.9
(22) 27.01.2017
(54) PRINTING INDEPENDENT IMAGES BY SHARING PRINTER HEADS
(73) Electronics for Imaging, Inc.
(72) RABIN, Noam
FUERSTNEAU, Brian
(74) ir. F.A. Geurts c.s.
(31) 201615190131
201662289146 P
(32) 22.06.2016
29.01.2016
(33) United States of America
United States of America
(47) 20.10.2021

(51) B42C 9/00
B42C 9/02
B42C 11/02
B42C 19/02
B42C 19/04
(11) EP3711967
(21) EP17929075.4
(22) 17.10.2017
(54) BOOKBINDING METHOD FOR ADHESIVE-BOUND BOOKLET
(73) Nakamura Printing&Binding Co.,Ltd.
(72) NAKAMURA, Teruo
(74) ir. A.R. Aalbers
(47) 08.12.2021

(51) B60D 1/00
B62K 27/14
B62K 27/12
B62K 13/02
B60D 1/18
(11) EP3569425
(21) EP19174648.6
(22) 15.05.2019
(54) A TOWING ELEMENT ASSEMBLY, A LOCKING MECHANISM ASSEMBLY AND A FLEXIBLE TOWING DEVICE FOR SINGLE-TRACK VEHICLES COMPRISING SUCH A TOWING ELEMENT ASSEMBLY AND SUCH A LOCKING MECHANISM ASSEMBLY
(73) Olszewski, Michal
MC2Ventures Sp. z o.o.
(72) Tomaszuk, Adam
Szusta, Jaroslaw
Derpenski, Lukasz
Olszewski, Michal
(74) dr. W.A.H.M. Van Borm
(31) 42559918
(32) 17.05.2018
(33) Poland
(47) 22.09.2021

(51) B60D 1/46
B60D 1/06
(11) EP3782829
(21) EP20169857.8
(22) 16.04.2020
(54) LOCKING DEVICE FOR A BALL CLUTCH
(73) Hans Sauermann GmbH & Co. KG
(72) SAUERMANN, Franz
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 202019104589 U
(32) 21.08.2019
(33) Germany
(47) 20.10.2021

(51) B60G 3/04
A01B 63/00
B60G 3/02
B66F 3/26
B60G 17/00
B60G 7/00
B60G 3/01
(11) EP3466732
(21) EP17805424.3
(22) 11.05.2017
(54) A VERTICAL LIFTING SYSTEM FOR USE IN FARMING MACHINES
(73) Stara S/A Indústria De Implementos Agrícolas
(72) STAPELBROEK TRENNEPOHL, Átila
(74) dr. ir. G.J.C. Verdijck c.s.
(31) 102016012232
(32) 30.05.2016
(33) Brazil
(47) 06.10.2021

(51) B60J 7/16
B60P 3/40
B60P 3/42
B62D 33/04
B62D 33/08
B60J 5/08
B60J 5/14
B62D 63/06
B65D 88/52
B65D 90/02
(11) EP3197798
(21) EP15844323.4
(22) 13.08.2015
(54) VERTICALLY COLLAPSIBLE SEMI-TRUCK TRAILER
(73) Ronstadt, Elias
(72) Ronstadt, Elias
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201514803630
201462055292 P
(32) 20.07.2015
25.09.2014
(33) United States of America
United States of America
(47) 22.09.2021

(51) B60K 11/04
B60K 11/08
(11) EP3535153
(21) EP17794788.4
(22) 03.11.2017
(54) MOTORCYCLE ENGINE COOLING SYSTEM
(73) PIAGGIO & C. S.p.A.
(72) DOVERI, Stefano
(74) ir. H.A. Witmans c.s.
(31) 201600111193

201600111163
(32) 04.11.2016
04.11.2016
(33) Italy
Italy
(47) 22.09.2021

(51) B60K 17/28
B28C 5/42
(11) EP2960094
(21) EP14174112.4
(22) 26.06.2014
(54) Torque transmission device for trucks having demountable or interchangeable bodies
(73) Pris-Mag S.r.l.
(72) Sala, Paolo
Sala, Alessandro
(74) ir. H.A. Witmans c.s.
(47) 15.09.2021

(51) B60L 1/00
H02J 7/35
H02J 7/00
F25D 11/00
B60R 16/033
B60P 3/20
H02J 7/14
(11) EP3741605
(21) EP19382419.0
(22) 24.05.2019
(54) TEMPERATURE CONTROLLED GOODS VEHICLES
(73) Thermo King Corporation
(72) SANZ DE ACEDO POLLAN, Oscar
MCNAMARA, Tom
(74) ir. C.G.C. Veldman-Dijkers
(47) 24.11.2021

(51) B60L 50/50
(11) EP3390144
(21) EP16874896.0
(22) 16.12.2016
(54) ELECTRIC VEHICLE AND VEHICLE-MOUNTED CHARGER AND METHOD FOR CONTROLLING THE SAME
(73) BYD Company Limited
(72) WANG, Xinghui
(74) ir. W.J.J.M. Kempes
(31) 201510955099
(32) 18.12.2015
(33) China
(47) 01.12.2021

(51) B60L 50/60
E02F 9/20
E02F 9/22
F15B 11/16
(11) EP2541070
(21) EP11747000.5
(22) 17.02.2011
(54) HYDRAULIC PRESSURE CONTROL DEVICE
(73) Takeuchi Mfg. Co., Ltd.
(72) SHIMIZU, Kouichi
KUMEUCHI, Kengo
(74) ir. H.Th. van den Heuvel c.s.
(31) 2010037514
(32) 23.02.2010
(33) Japan
(47) 24.11.2021

(51) B60M 1/12
B60M 1/28
G01L 5/107
(11) EP3760475
(21) EP20182132.9
(22) 25.06.2020
(54) DEVICE AND METHOD FOR DETERMINING THE MECHANICAL STRESS OF A CONTACT WIRE OF AN OVERHEAD LINE
(73) 4NRJ
(72) GASSELIN, Benoît
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 1907456
(32) 04.07.2019
(33) France
(47) 06.10.2021

(51) B60M 1/20
(11) EP3740398
(21) EP19723733.2
(22) 03.05.2019
(54) SUSPENSION CLAMP FOR INCLINED TROLLEY WIRES
(73) Siemens Mobility GmbH
(72) HAHN, Gunter
RÜHL, Martin
TERFLOTH, Sebastian
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 102018207998
(32) 22.05.2018
(33) Germany
(47) 20.10.2021

(51) B60Q 1/40
(11) EP2920027
(21) EP13855447.2
(22) 14.11.2013
(54) SYSTEM AND METHOD FOR VEHICLE TURN SIGNALS
(73) Gogoro Inc.
(72) CHEN, Ching
LUKE, Hok-Sum, Horace
HUANG, Jui, Sheng
(74) ir. A.R. Aalbers
(31) 201261727403 P
(32) 16.11.2012
(33) United States of America
(47) 13.10.2021

(51) B60R 19/18
B60R 21/04
(11) EP3790771
(21) EP19724151.6
(22) 08.05.2019
(54) CRASH STRUCTURE FOR A MOTOR VEHICLE, METHOD FOR PRODUCING A CRASH STRUCTURE OF THIS TYPE, AND MOTOR VEHICLE HAVING A CRASH STRUCTURE OF THIS TYPE
(73) Next.E.Go Mobile SE
(72) VASAN SURESH, Jayanthan
(74) J.M.H. Duyver lic.
(31) 102018111226
(32) 09.05.2018
(33) Germany
(47) 27.10.2021

(51) B60S 1/28
B60S 1/32
(11) EP3699039
(21) EP20153653.9
(22) 23.10.2015
(54) PASSIVE WIPER SYSTEM
(73) Waymo LLC
(72) DOORLEY, Graham
KARPLUS, Paul Thomas Hansen
AVRAM, Peter
(74) dr. A. Krebs
(31) 201414529482
(32) 31.10.2014
(33) United States of America
(47) 01.12.2021

(51) B60T 8/32
B60T 8/88
B60T 8/175
B60T 8/1755
B60T 8/176
B60T 13/66
B60T 13/68
B60T 8/36
B60T 17/18
B60T 13/26
B60T 8/48
(11) EP3421309
(21) EP18175916.8
(22) 05.06.2018
(54) BRAKING DEVICE ACTIVATED BY COMPRESSING A MEDIUM AND AT LEAST PARTIALLY ELECTRONIC
(73) MAN Truck & Bus SE
(74) ir. A. Blokland c.s.
(31) 102017113743
(32) 21.06.2017
(33) Germany
(47) 03.11.2021

(51) B60W 40/105
B60W 50/00
B60W 40/09
G08G 1/00
G08G 1/01
G07C 5/08
G08G 1/0967
(11) EP3272612
(21) EP17181422.1
(22) 14.07.2017
(54) METHOD AND SYSTEM FOR VEHICLE SPEED PROFILE GENERATION
(73) Tata Consultancy Services Limited
(72) CHAKRAVARTY, Tapas
PURUSHOTHAMAN, Balamuralidhar
BANERJEE, Tanushree
CHOWDHURY, Arijit
(74) dr. ir. G.J.C. Verdijck c.s.
(31) 201621024234
(32) 15.07.2016
(33) India
(47) 20.10.2021

(51) B61L 3/00
B61L 27/00
B61L 27/04
B61L 3/12
B61L 15/00
(11) EP3468855
(21) EP17739928.4
(22) 06.07.2017
(54) METHOD AND SYSTEM FOR CONTROLLING OF RAILWAY VEHICLES
(73) Siemens Mobility GmbH

(72) STEINGRÖVER, Andreas
MÖNNICH, Hans-Jörg
EVERS, Bernhard
BAIER, Torsten
GEDUHN, Norbert
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 102016214024
(32) 29.07.2016
(33) Germany
(47) 29.09.2021

(51) B61L 15/00
B61L 23/16
B61L 25/02
B61L 27/00
B61L 23/14
(11) EP3782870
(21) EP20185625.9
(22) 14.07.2020
(54) METHOD AND ROUTE CONTROL CENTRE FOR OPERATING A RAILWAY TRACK
(73) Siemens Mobility GmbH
(72) Bednarek, Anna-Janina
Lang, Slawa
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 102019212177
(32) 14.08.2019
(33) Germany
(47) 29.09.2021

(51) B62D 9/00
B60W 10/184
B60W 30/045
B60W 30/18
B60W 50/00
(11) EP3694766
(21) EP17788169.5
(22) 10.10.2017
(54) METHOD FOR CONTROLLING A STEERING SYSTEM OF A VEHICLE
(73) Volvo Truck Corporation
(72) HENDERSON, Leon
LAINE, Leo
VOLZ, Patrick
KÄLLSTRAND, Björn
(74) dr. W.A.H.M. Van Borm
(47) 24.11.2021

(51) B62D 33/07
B62D 21/15
(11) EP3663173
(21) EP19212794.2
(22) 02.12.2019
(54) DEVICE FOR BEARING A REAR AREA OF A DRIVER CAB OF A COMMERCIAL VEHICLE
(73) MAN Truck & Bus SE
(72) Hron, Tim Benjamin
(74) ir. A. Blokland c.s.
(31) 102018131403
(32) 07.12.2018
(33) Germany
(47) 17.11.2021

(51) B62J 15/02
(11) EP3584147
(21) EP19180739.5
(22) 18.06.2019
(54) ASSEMBLY OF A MUDGUARD, A BAR AND A FASTENING MEMBER
(73) Curana Invest bvba
(72) VENS, Dirk
(74) dr. W.A.H.M. Van Borm
(31) 201805417
(32) 19.06.2018
(33) Belgium
(47) 27.10.2021

(51) B62M 6/55
B62K 19/34
B62M 3/00
(11) EP3686102
(21) EP19153759.6
(22) 25.01.2019
(54) PEDELEC BOTTOM BRACKET DRIVE UNIT
(73) Amprio GmbH
(72) OTZEN, Kai
THIELE, Peter
HEMSING, Axel
GREVEN, Dietmar
(74) ir. F.A. Geurts c.s.
(47) 27.10.2021

(51) B63B 22/18
F03B 13/14
(11) EP3429913
(21) EP17767069.2
(22) 15.03.2017
(54) FLOATING PLATFORM
(73) Novige AB
(74) J.M.H. Duyver lic.
(31) 1650352
(32) 16.03.2016
(33) Sweden
(47) 03.11.2021

(51) B63B 59/04
B08B 9/02
B08B 9/08
F16L 58/00
B08B 17/00
B08B 9/027
B08B 17/02
C02F 1/48
E02B 17/00
(11) EP2890606
(21) EP12883798.6
(22) 28.08.2012
(54) SYSTEM AND METHOD FOR PREVENTION OF ADHESION OF ORGANISMS IN WATER TO A SUBSTRATE IN CONTACT WITH WATER
(73) Sembcorp Marine Repairs & Upgrades Pte. Ltd.
(72) CHEW, Hwee Hong
(74) J.M.H. Duyver lic.
(47) 17.11.2021

(51) B65B 11/10
B65B 51/02
B65B 51/07
B65B 57/14
B65B 57/12
B65D 75/14
B65D 33/26
(11) EP3763624
(21) EP20176832.2
(22) 27.05.2020
(54) MAILING BAG AND METHOD AND DEVICE FOR PACKAGING GOODS IN A MAILING BAG
(73) Hugo Beck Maschinenbau GmbH & Co. KG
(72) Raiser, Curt-Jürgen
Kleemann, Gunther
Krohmer, Matthias
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 19184998
(32) 08.07.2019
(33) European Patent Office (EPO)
(47) 27.10.2021

(51) B65B 21/02
B65B 43/12
B65B 43/26
B65B 43/30
B65B 35/30
B65B 21/24
B65B 43/34
B65B 43/60
B65B 65/00
B65B 21/18
B65B 5/06
B65B 5/08
(11) EP3778408
(21) EP20195299.1
(22) 27.05.2016
(54) GUIDE ASSEMBLY
(73) Graphic Packaging International, LLC
(72) Ford, Colin
(74) ir. F.A. Geurts c.s.
(31) 201562230186 P
(32) 29.05.2015
(33) United States of America
(47) 20.10.2021

(51) B65B 25/06
B65B 25/08
B65B 57/02
(11) EP3741692
(21) EP20174343.2
(22) 13.05.2020
(54) SYSTEM AND METHOD FOR INTERLEAVING SUBSTRATE WITH FOOD PRODUCTS
(73) Pacproinc, LLC
(72) WARD, Andrew
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201962850208 P
(32) 20.05.2019
(33) United States of America
(47) 01.12.2021

(51) B65B 69/00
B65G 69/18
(11) EP3718911
(21) EP19405006.8
(22) 05.04.2019
(54) DECANTING DEVICE FOR TRANSFERRING FLOWABLE PROCESS MATERIAL BETWEEN A FIRST AND A SECOND CONTAINER WHILE PROTECTED AGAINST CONTAMINATION
(73) Rubitec AG
(72) Rubitschung, Christoph
(74) ir. H.A. Witmans c.s.
(47) 13.10.2021

(51) B65C 9/00
G09F 3/00
C23C 16/04
C23C 16/40

C23C 16/46
C23C 16/52
B42D 25/29
(11) EP3119683
(21) EP15718607.3
(22) 18.03.2015
(54) DEPOSITION PROCESS BASED ON STENCIL MASK AND APPLICATION TO THE FABRICATION OF TAGS SUPPORTING MULTI-FUNCTIONAL TRACEABLE CODES
(73) 3D-Oxides
(72) BENVENUTI, Giacomo
WAGNER, Estelle
SANDU, Cosmin
(74) dr. A. Krebs
(31) PCT/IB2014/000802
(32) 18.03.2014
(33) World Intellectual Property Office (WIPO)
(47) 06.10.2021

(51) B65D 1/20
B65D 25/42
B65D 51/16
B65D 90/34
(11) EP3535197
(21) EP17863278.2
(22) 13.06.2017
(54) CONTROLLED POUR BOTTLE
(73) Valvoline Licensing and Intellectual Property, LLC
(72) RUBLE, Steven
KASPER, Joseph
(74) J.M.H. Duyver lic.
(31) 201615343278
(32) 04.11.2016
(33) United States of America
(47) 13.10.2021

(51) B65D 5/20
B65D 5/24
B65D 43/02
(11) EP3705415
(21) EP20155273.4
(22) 04.02.2020
(54) PACKAGE, IN PARTICULAR FOR FOOD PRODUCTS
(73) Messerle GmbH
(72) Messerle, Heiner
(74) ir. A. Blokland c.s.
(31) 812019
(32) 05.03.2019
(33) Austria
(47) 13.10.2021

(51) B65D 6/26
F16C 11/04
B65D 6/22
(11) EP3512777
(21) EP17851517.7
(22) 14.09.2017
(54) WALL LATCHING SYSTEM
(73) Arena Packaging, LLC
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201615266683
(32) 15.09.2016
(33) United States of America
(47) 03.11.2021

(51) B65D 17/34
(11) EP2362844
(21) EP09740846.2
(22) 27.08.2009
(54) DRINK CAN CLOSURE ELEMENT
(73) WB Innovations Limited
(72) BRANDTNER, Wladimir
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 102008044981
(32) 29.08.2008
(33) Germany
(47) 29.09.2021

(51) B65D 39/08
B65D 55/06
(11) EP3551543
(21) EP17808815.9
(22) 16.11.2017
(54) STOPPER CLOSURE
(73) Schütz GmbH & Co. KGaA
(72) KLATT, Bernd
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 102016124071
(32) 12.12.2016
(33) Germany
(47) 20.10.2021

(51) B65D 41/00
C08F 2/00
C08L 23/08
(11) EP3383755
(21) EP16805396.5
(22) 01.12.2016
(54) HDPE
(73) Abu Dhabi Polymers Company Limited (Borouge) L.L.C.
Borealis AG
(72) CHENG, Joy
BURYAK, Andrey
(74) J.M.H. Duyver lic.
(31) 15197662
(32) 02.12.2015
(33) European Patent Office (EPO)
(47) 20.10.2021

(51) B65D 41/22
A47G 19/26
(11) EP2961663
(21) EP14756959.4
(22) 20.02.2014
(54) REUSABLE FOOD COVERS
(73) Food Huggers Inc.
(74) ir. W.J.J.M. Kempes
(31) 201313954475
201361838461 P
201361769312 P
(32) 30.07.2013
24.06.2013
26.02.2013
(33) United States of America
United States of America
United States of America
(47) 03.11.2021

(51) B65D 43/02
B65D 85/78
(11) EP3204307
(21) EP14903692.3
(22) 12.12.2014
(54) TAMPER EVIDENT LID AND METHOD OF MAKING SAME
(73) Stanpac Inc.
(72) WITT, Stephen Hugh
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201462060730 P
(32) 07.10.2014
(33) United States of America
(47) 22.09.2021

(51) B65D 75/32
(11) EP3484531
(21) EP16741395.4
(22) 18.07.2016
(54) DEFINED REMOVAL SITE ON STERILE BLISTER PACK
(73) Alcon Inc.
(72) WEBER, Marec
(74) ir. W.J.J.M. Kempes
(47) 10.11.2021

(51) B65D 83/04
(11) EP3619140
(21) EP18726648.1
(22) 03.05.2018
(54) CONTAINER INCLUDING AN OUTER SHELL AND CARTRIDGE, AND METHOD OF ASSEMBLING SAME
(73) Wm. Wrigley Jr. Company
(72) ANGELONI, Paul, J.
CUNNINGHAM, Christopher, H.
TABER, Benjamin, Jordan
(74) ir. W.J.J.M. Kempes
(31) 201762501557 P
(32) 04.05.2017
(33) United States of America
(47) 13.10.2021

(51) B65D 88/54
B65D 90/00
B65D 90/14
(11) EP3642136
(21) EP18734430.4
(22) 07.06.2018
(54) INTERCHANGEABLE BODY
(73) Fahrzeugwerk Bernard Krone GmbH & Co. KG
(72) SCHULTE, Christoph
(74) ir. J.C. Volmer c.s.
(31) 102017005698
(32) 19.06.2017
(33) Germany
(47) 15.09.2021

(51) B65D 88/60
B60P 1/00
B65G 25/06
(11) EP3529176
(21) EP17788194.3
(22) 20.10.2017
(54) INTERCHANGEABLE CONTAINER HAVING INTEGRATED LOADING AND UNLOADING SYSTEM, DEVICE FOR LOADING AND/OR UNLOADING, METHOD FOR LOADING, METHOD FOR UNLOADING, METHOD FOR PRODUCTION
(73) Penners, Christian
(72) Penners, Christian
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 102016012571
(32) 21.10.2016
(33) Germany
(47) 22.09.2021

(51) B65F 1/00
B65D 88/16
B65F 1/06

(11) EP3689783
(21) EP20159379.5
(22) 19.08.2016
(54) FLEXIBLE PACKAGING OF WASTE, IN PARTICULAR OF ASBESTOS, WITH DOUBLE SHELL, WITH IMPROVED PROPERTIES
(73) Linerbenne
(72) MILHEM, Franck
TENAUD, Jean-Jacques
TOULLER, Sylvain
FORGEOT, François
DUCROCQ, Charles
(74) ir. W.J.J.M. Kempes
(31) 1557804
(32) 19.08.2015
(33) France
(47) 13.10.2021

(51) B65G 1/04
B65G 1/137
B65G 65/00
(11) EP3782932
(21) EP19193381.1
(22) 23.08.2019
(54) STACK STORAGE ASSEMBLY
(73) Jungheinrich Aktiengesellschaft
(72) Rollwa, Volker
Liebhaber, Markus
Cavelius, Jörg
Becker, Michael
(74) J.M.H. Duyver lic.
(47) 06.10.2021

(51) B65G 1/04
B65G 1/137
G01C 15/00
(11) EP3172152
(21) EP15736635.2
(22) 17.06.2015
(54) AN AUTOMATED WAREHOUSE WITH A LASER TARGETING SYSTEM
(73) Modula S.p.A.
(72) STEFANI, Franco
RETTURA, Claudio
(74) ir. F.A. Geurts c.s.
(31) MO20140210
(32) 23.07.2014
(33) Italy
(47) 27.10.2021

(51) B65G 19/02
B65G 47/61
(11) EP3568364
(21) EP18702624.0
(22) 16.01.2018
(54) CONVEYED GOODS CONTAINER HAVING AN EJECTION DEVICE AND ASSOCIATED SUSPENDED CONVEYING DEVICE
(73) TGW Mechanics GmbH
(72) REISCHL, Josef
HERZOG-LANG, Viktor
(74) J.M.H. Duyver lic.
(31) 202017100206 U
(32) 16.01.2017
(33) Germany
(47) 22.09.2021

(51) B65G 57/00
B65D 21/02
(11) EP3154884
(21) EP15805862.8
(22) 11.06.2015
(54) SYSTEMS AND METHODS FOR MODULAR STORAGE AND MANAGEMENT
(73) Caja Elastic Dynamic Solutions Ltd.
(72) GLASS, Guy
EINAV, Omer
EINAV, Haim
(74) ir. W.J.J.M. Kempes
(31) 201462011583 P
(32) 13.06.2014
(33) United States of America
(47) 29.09.2021

(51) B66C 1/02
B29D 99/00
(11) EP3183199
(21) EP15759584.4
(22) 20.08.2015
(54) AN IMPROVED SEAL FOR A VACUUM MATERIAL LIFTER
(73) Vacuworx Global, LLC
(72) DENTON, Robert
SOLOMON, William
PODESTA, James, Ray
(31) 201514829827
201462039665 P
(32) 19.08.2015
20.08.2014
(33) United States of America
United States of America
(47) 01.12.2021

(51) B66C 23/20
B66C 23/24
E06C 7/12
(11) EP3713868
(21) EP18821702.0
(22) 16.11.2018
(54) PORTABLE HOISTING DEVICE
(73) Commissariat à l'Energie Atomique et aux Energies Alternatives
(72) CHAUSSONNET, Pascal
CHRISTIN, Laurent
(74) ir. F.A. Geurts c.s.
(31) 1771246
(32) 22.11.2017
(33) France
(47) 22.09.2021

(51) B66F 11/04
B62B 3/00
(11) EP3165497
(21) EP16195458.1
(22) 25.10.2016
(54) MOBILE BASE FOR A CAMERA CRANE
(73) Chapman/Leonard Studio Equipment, Inc.
(72) CHAPMAN, Leonard T.
(74) J.M.H. Duyver lic.
(31) 201514931068
(32) 03.11.2015
(33) United States of America
(47) 01.12.2021

(51) B68G 15/00
(11) EP3571004
(21) EP18742370.2
(22) 08.01.2018
(54) AUTOMATIC ASSEMBLY OF GLUELESS POCKETED SPRING UNITS
(73) Wolfson, Martin
(72) Wolfson, Martin
(74) ir. F.A. Geurts c.s.
(31) 201762446845 P
(32) 17.01.2017
(33) United States of America
(47) 20.10.2021

(51) C01B 3/50
C01B 3/56
(11) EP3771688
(21) EP19189839.4
(22) 02.08.2019
(54) SEGREGATED STEAM SYSTEM AND PROCESS IN A HYDROGEN PRODUCTION FACILITY
(73) Air Products and Chemicals, Inc.
(72) Peng, Xiang-Dong
(74) ir. M.F.J.M. Ketelaars c.s.
(47) 27.10.2021

(51) C01B 7/09
B01D 61/44
B01D 3/14
B01D 3/36
(11) EP3753901
(21) EP20180418.4
(22) 17.06.2020
(54) METHOD FOR PREPARING HYDROBROMIC ACID FROM WASTE MADE OF AN AQUEOUS SOLUTION OF BROMIDE SALTS
(73) Tredi
(72) BERTEIGNE, Michel
(74) ir. W.J.J.M. Kempes
(31) 1906458
(32) 17.06.2019
(33) France
(47) 20.10.2021

(51) C01B 25/01
C01B 25/22
C01B 25/225
C01B 25/226
C01B 25/32
(11) EP3665124
(21) EP18750452.7
(22) 10.08.2018
(54) METHOD FOR ETCHING A PHOSPHATE SOURCE USING ACID
(73) Prayon S.A.
(72) NINANE, Léon
WAVREILLE, Alexandre
(74) J.M.H. Duyver lic.
(31) 201705554
(32) 11.08.2017
(33) Belgium
(47) 29.09.2021

(51) C02F 1/42
(11) EP3372558
(21) EP18160517.1
(22) 07.03.2018
(54) MEDIA PURIFICATION DEVICES HAVING INTEGRAL FLOW CONTROLLERS
(73) Unger Marketing International, LLC
(72) HUDA, Stephen
CAMP, Robert

ADAMS, Paul
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201862628923 P
201762468167 P
(32) 09.02.2018
07.03.2017
(33) United States of America
United States of America
(47) 20.10.2021

(51) C02F 1/469
(11) EP3245162
(21) EP16701245.9
(22) 15.01.2016
(54) SINGLE MODULE, FLOW-ELECTRODE APPARATUS AND METHOD FOR CONTINOUS WATER DESALINATION AND ION SEPARATION BY CAPACITIVE DEIONIZATION
(73) DWI - Leibniz-Institut für Interaktive Materialien e.V.
(72) GENDEL, Youri
WESSLING, Matthias
ROMMERSKIRCHEN, Alexandra
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 15000108
(32) 16.01.2015
(33) European Patent Office (EPO)
(47) 20.10.2021

(51) C02F 3/08
(11) EP3713883
(21) EP18792926.0
(22) 23.10.2018
(54) SYSTEM FOR THE BIOLOGICAL TREATMENT OF WATER
(73) Veolia Water Solutions & Technologies Support
(72) LINDEGAARD, Sophie
INIAL, Goulven
MEUDAL, Nicolas
SAUVIGNET, Philippe
HERTFLEDER, Nikolai
(74) ir. W.J.J.M. Kempes
(31) 1761119
(32) 23.11.2017
(33) France
(47) 06.10.2021

(51) C03C 17/00
B41J 3/407
C03C 17/38
(11) EP3455181
(21) EP17723350.9
(22) 11.05.2017
(54) A GLASS CONTAINER HAVING AN INKJET PRINTED IMAGE AND A METHOD FOR THE MANUFACTURING THEREOF
(73) Anheuser-Busch InBev S.A.
(72) DE GRAAF, Frederik Fernand S.
STEENACKERS, Marin
VAN DE VELDE, Johan
VANDECRUYS, Jonas
(74) ir. H.A. Witmans c.s.
(31) 16169470
(32) 12.05.2016
(33) European Patent Office (EPO)
(47) 22.09.2021

(51) C03C 21/00
G01N 3/30
(11) EP3169639
(21) EP15750515.7
(22) 24.07.2015
(54) STRENGTHENED GLASS WITH DEEP DEPTH OF COMPRESSION
(73) Corning Inc.
(72) PESANSKY, Jonathan David
ROUSSEV, Rostislav Vatchev
STRINES, Brian Paul
AMIN, Jaymin
EGBOIYI, Benedict Osobomen
REIMAN, Kevin Barry
(74) dr. A. Krebs
(31) 201462029075 P
(32) 25.07.2014
(33) United States of America
(47) 10.11.2021

(51) C05F 3/00
C05F 3/06
C05F 5/00
C05F 7/00
C05F 9/00
(11) EP3044189
(21) EP14793201.6
(22) 08.09.2014
(54) METHOD FOR PRESERVING THE FERMENTABLE POTENTIAL OF AN ORGANIC SUBSTRATE AND CORRESPONDING FACILITY
(73) Afyren
(72) PESSIOT, Jérémy
NOUAILLE, Régis
(74) ir. W.J.J.M. Kempes
(31) 1302119
(32) 11.09.2013
(33) France
(47) 27.10.2021

(51) C07B 59/00
C07C 253/30
C07C 313/06
C07C 227/02
(11) EP3621941
(21) EP18724833.1
(22) 09.05.2018
(54) USE OF PRECURSORS FOR THE PRODUCTION OF CARBON-11-LABELLED AMINO ACIDS AND DERIVATIVES THEREOF
(73) ABX Advanced Biochemical Compounds GmbH
(72) HESSE, Ronny
HOEPPING, Alexander
FASEL, Antje
MÜLLER, Marco
BUGDAHN, Nikolas
(74) ir. H.A. Witmans c.s.
(31) 102017110429
(32) 12.05.2017
(33) Germany
(47) 06.10.2021

(51) C07C 29/14
C07C 31/135
C07C 33/14
C07C 45/54
C07C 47/21
C07C 47/32
C07C 49/21
C07C 53/134
C07C 57/02
(11) EP3494103
(21) EP17754650.4
(22) 03.08.2017
(54) 1-HYDROXYMETHYL-1,2,2,6-TETRAMETHYL-CYCLOHEXANE AND DERIVATIVES THEREOF AND THEIR USE AS AROMA CHEMICALS
(73) BASF SE
(72) GUPTE, Nitin
KADAM, Mileen
RUEDENAUER, Stefan
ARDEKAR, Sadanand
SWAMINATHAN, Vijay
HINDALEKAR, Shrirang
PELZER, Ralf
HICKMANN, Volker
(74) ir. W.J.J.M. Kempes
(31) 201621026655
16188975
(32) 04.08.2016
15.09.2016
(33) India
European Patent Office (EPO)
(47) 06.10.2021

(51) C07C 29/141
C07C 45/50
C07C 47/02
C07C 31/10
C07C 31/12
C07C 31/125
(11) EP3414220
(21) EP17709505.6
(22) 10.02.2017
(54) PROCESSES FOR CONVERTING OLEFINS TO ALCOHOLS, ETHERS, OR COMBINATIONS THEREOF
(73) Dow Technology Investments LLC
(72) PHILLIPS, George R.
WATSON, Rick B.
WAMBERGUE, Stephane
BECKER, Michael C.
MILLER, Glenn A.
SMIDT, Martin Lucas
GILES, Jason F.
BRAMMER, Michael A.
(74) ir. J.D. de Zeeuw
(31) 201662294092 P
(32) 11.02.2016
(33) United States of America
(47) 13.10.2021

(51) C07C 51/15
(11) EP3638645
(21) EP18735060.8
(22) 07.06.2018
(54) CONTINUOUS PROCESS FOR THE CONVERSION OF OLEFINS AND CARBON DIOXIDE TO ACRYLATES VIA SOLUTION PHASE REACTOR
(73) Chevron Phillips Chemical Company LP
(72) HLAVINKA, Mark L.
HENDRICKSON, Gregory G.
IACONO, Pasquale
(74) ir. F.A. Geurts c.s.
(31) 201762519541 P
(32) 14.06.2017
(33) United States of America
(47) 24.11.2021

(51) C07C 51/27
C07C 63/307
C07C 63/06
C07C 37/56
C07C 39/04
C07C 45/51
C07C 47/544
C07C 249/12
C07C 251/48
C07C 249/16
C07C 251/86
C07D 307/89
C07D 307/52
(11) EP3419957
(21) EP17715800.3
(22) 27.02.2017
(54) AROMATIC COMPOUNDS FROM FURANICS
(73) Nederlandse Organisatie voor toegepast-natuurwetenschappelijk onderzoek TNO
(72) CROCKATT, Marc
URBANUS, Jan Harm
(74) ir. H.A. Witmans c.s.
(31) 17157705
16157731
(32) 23.02.2017
26.02.2016
(33) European Patent Office (EPO)
European Patent Office (EPO)
(47) 29.09.2021

(51) C07C 209/16
C07C 213/02
C07C 211/10
(11) EP3700884
(21) EP18785386.6
(22) 17.10.2018
(54) PROCESS FOR THE PREPARATION OF ETHYLENEAMINES
(73) BASF SE
(72) LUYKEN, Hermann
(74) ir. W.J.J.M. Kempes
(31) 17198935
(32) 27.10.2017
(33) European Patent Office (EPO)
(47) 13.10.2021

(51) C07C 209/78
(11) EP3160936
(21) EP15731295.0
(22) 22.06.2015
(54) METHOD FOR PRODUCING DI- AND POLYAMINES OF THE DIPHENYLMETHANE SERIES
(73) Covestro Intellectual Property GmbH & Co. KG
(72) WERSHOFEN, Stefan
HARTJES, Volker
GRUNER, Klaus-Gerd
KNAUF, Thomas
(74) ir. W.J.J.M. Kempes
(31) 14173582
(32) 24.06.2014
(33) European Patent Office (EPO)
(47) 13.10.2021

(51) C07C 263/20
C07C 263/10
C07C 265/14
(11) EP3735405
(21) EP19700011.0
(22) 02.01.2019
(54) METHOD FOR THE PREPARATION OF METHYLENE DIPHENYLENE DIISOCYANATES AND POLYMETHYLENE POLYPHENYLENE POLYISOCYANATES
(73) Covestro Intellectual Property GmbH & Co. KG
(72) KNAUF, Thomas
WERSHOFEN, Stefan
MANZEL, Dirk
PLATHEN, Peter
(74) ir. W.J.J.M. Kempes
(31) 18150434
(32) 05.01.2018
(33) European Patent Office (EPO)
(47) 24.11.2021

(51) C07C 269/04
C07C 273/18
C07C 271/28
C07C 271/58
C07C 275/28
(11) EP3245188
(21) EP16714035.9
(22) 18.01.2016
(54) SYNTHESIS OF CARBAMATE OR UREA COMPOUNDS
(73) Nederlandse Organisatie voor toegepast-natuurwetenschappelijk onderzoek TNO
(72) VAN DER HEIJDEN, Antonius Eduard
Dominicus Maria
VAN DEN ELSHOUT, Jos Johan Matthijs Hugo
VAN GEEST, Erik
(74) ir. H.A. Witmans c.s.
(31) 1041160
15151464
(32) 29.01.2015
16.01.2015
(33) Netherlands
European Patent Office (EPO)
(47) 29.09.2021

(51) C07C 407/00
C07C 409/04
(11) EP3507273
(21) EP17787775.0
(22) 05.10.2017
(54) PRODUCTION OF TERT- BUTYL HYDROPEROXIDE SOLUTION AND PROCESS TO FORM PRODUCTS THEREFROM
(73) Lyondell Chemical Technology, L.P.
(72) CHANG, Te
NGUYEN, Ha, H.
MCDOWELL, William, H.
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201662407047 P
(32) 12.10.2016
(33) United States of America
(47) 24.11.2021

(51) C07D 209/48
C07D 209/49
C07D 209/56
C07D 401/08
A61K 31/4035
A61K 31/4439
A61P 37/02
(11) EP3590924
(21) EP18761354.2
(22) 27.02.2018
(54) NOVEL ISOINDOLINE DERIVATIVE, AND PHARMACEUTICAL COMPOSITION AND APPLICATION THEREOF
(73) Kangpu Biopharmaceuticals, Ltd.
(72) LEE, Wen-Cherng
ZHANG, Lei
LIAO, Baisong
(74) ir. W.J.J.M. Kempes
(31) 201710725987
201710112364
(32) 22.08.2017
28.02.2017
(33) China
China
(47) 27.10.2021

(51) C07D 213/26
C07D 213/76
C07D 213/79
C07D 213/803
C07D 213/85
C07D 213/84
C07D 215/18
C07D 215/26
C07D 217/22
C07D 237/12
C07D 241/16
(11) EP3331857
(21) EP16833891.1
(22) 04.08.2016
(54) PROCESS FOR FLUORINATING COMPOUNDS
(73) Corteva Agriscience LLC
The Regents of The University of Michigan
(72) RYAN, Sarah
SCHIMLER, Sydonie
CHENG, Yang
BLAND, Douglas
SANFORD, Melanie
(74) ir. H.A. Witmans c.s.
(31) 201562200983 P
(32) 04.08.2015
(33) United States of America
(47) 06.10.2021

(51) C07D 231/40
C07D 231/44
C07D 231/50
C07D 413/12
C07D 417/12
C07D 487/04
C07D 498/04
A61K 31/4155
A61P 9/00
(11) EP3670499
(21) EP19199606.5
(22) 03.05.2016
(54) PYRAZOLE DERIVATIVES USEFUL AS 5-LIPOXYGENASE ACTIVATING PROTEIN (FLAP) INHIBITORS
(73) Astrazeneca AB
(72) PETTERSEN, Daniel, Tor
PLOWRIGHT, Alleyn, Thomas
EMTENÄS, Hans Fredrik
LEMURELL, Malin, Anita
GRANBERG, Kenneth, Lars

BRODDEFALK, Johan Olof
ULANDER, Lars Johan, Andreas
(74) ir. W.J.J.M. Kempes
(31) 201562156424 P
(32) 04.05.2015
(33) United States of America
(47) 29.09.2021

(51) C07D 239/36
A61K 31/506
A61P 9/10
A61P 17/00
A61P 19/02
A61P 25/00
A61P 25/28
A61P 27/02
A61P 29/00
A61P 35/00
A61P 43/00
C07D 401/04
C07D 409/04
C07D 401/14
C07D 405/14
C07D 403/04
C07D 417/04
A61K 31/513
(11) EP3372589
(21) EP16859937.1
(22) 28.10.2016
(54) PYRIMIDINE DERIVATIVE
(73) ASKA Pharmaceutical Co., Ltd.
(72) OKADA Makoto
NAKANO Youichi
MAEDA Satoshi
NOSE Takashi
NISHIMOTO Takahiro
(74) dr. G. Visser-Luirink
(31) 2016078697
2015212920
(32) 11.04.2016
29.10.2015
(33) Japan
Japan
(47) 20.10.2021

(51) C07D 263/57
A61K 31/423
A61P 25/00
(11) EP3191461
(21) EP15771276.1
(22) 31.08.2015
(54) CRYSTALLINE SOLID FORMS OF 6-CARBOXY-2-(3,5-DICHLOROPHENYL)-BENZOXAZOLE
(73) Pfizer Inc.
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201562203953 P
201462047614 P
(32) 12.08.2015
08.09.2014
(33) United States of America
United States of America
(47) 03.11.2021

(51) C07D 295/096
C07D 241/04
C07D 217/04
C07D 209/44
C07C 239/22
A61K 31/5375
A61K 31/445
A61P 17/14
A61P 19/10
A61P 3/04
(11) EP3181556
(21) EP15831295.9
(22) 13.08.2015
(54) MICROMOLECULE COMPOUND, METHOD OF SYNTHESIS AND APPLICATION THEREOF
(73) Technoderma Medicines Pte Ltd
(72) WANG, Zengquan
MAO, Chen
CAO, Xiaodong
(74) J.M.H. Duyver Iic.
(31) 201410398184
(32) 14.08.2014
(33) China
(47) 29.09.2021

(51) C07D 401/04
A61K 31/4427
A61K 31/4523
A61K 31/497
A61K 31/501
A61K 31/506
A61P 31/06
(11) EP3668853
(21) EP18752172.9
(22) 15.08.2018
(54) NOVEL COMPOUNDS
(73) GlaxoSmithKline Intellectual Property Development Limited
Bioversys AG
(72) BOUROTTE, Marilyne
WILLAND, Nicolas
REMUIÑAN-BLANCO, Modesto Jesús
DEPREZ, Benoit
PORRAS DE FRANCISCO, Esther
(31) 17382570
(32) 16.08.2017
(33) European Patent Office (EPO)
(47) 29.09.2021

(51) C07D 401/04
C07D 401/14
C07D 405/14
A61K 31/4439
A61P 1/00
A61P 17/06
A61P 35/00
(11) EP3334719
(21) EP16834372.1
(22) 12.08.2016
(54) SUBSTITUTED BENZIMIDAZOLES, THEIR PREPARATION AND THEIR USE AS PHARMACEUTICALS
(73) Neomed Institute
(72) JACQUEMOT, Guillaume
JOHNSTONE, Shawn
ALBERT, Jeffrey S.
BAYRAKDARIAN, Malken
CLARIDGE, Stephen
GRIFFIN, Andrew
POURASHRAF, Mehrnaz
(31) 201662358101 P
201562204178 P
(32) 04.07.2016
12.08.2015
(33) United States of America
United States of America
(47) 15.09.2021

(51) C07D 401/12
A61K 31/5377
A61P 29/00
A61P 37/08
A61P 43/00
(11) EP3351542
(21) EP16846662.1
(22) 16.09.2016
(54) NEW CRYSTAL OF PIPERAZINE COMPOUND
(73) Taiho Pharmaceutical Co., Ltd.
(72) AOKI, Shinichi
(74) ir. H.A. Witmans c.s.
(31) 2015184022
(32) 17.09.2015
(33) Japan
(47) 17.11.2021

(51) C07D 401/12
C07D 401/14
A61K 31/4439
A61P 9/10
A61P 11/00
A61P 7/02
(11) EP3486242
(21) EP17845424.5
(22) 30.08.2017
(54) OXOPICOLINAMIDE DERIVATIVE, PREPARATION METHOD THEREFOR AND PHARMACEUTICAL USE THEREOF
(73) Jiangsu Hengrui Medicine Co., Ltd.
Shanghai Hengrui Pharmaceutical Co., Ltd.
(72) LI, Xiaodong
CHEN, Gang
WANG, Weimin
YANG, Fanglong
HE, Feng
TAO, Weikang
(74) dr. W.A.H.M. Van Borm
(31) 201710014133
201610789384
(32) 09.01.2017
31.08.2016
(33) China
China
(47) 08.12.2021

(51) C07D 401/12
C07D 401/14
C07D 413/12
C07D 413/14
C07D 417/14
A61P 35/00
(11) EP3490986
(21) EP17754283.4
(22) 27.07.2017
(54) PIPERIDINE CXCR7 RECEPTOR MODULATORS
(73) Idorsia Pharmaceuticals Ltd
(72) YUAN, Shuguang
AISSAOUI, Hamed
LEHEMBRE, Francois
RICHARD-BILDSTEIN, Sylvia
POUZOL, Laetitia
POTHIER, Julien
GUERRY, Philippe
(74) ir. H.A. Witmans c.s.

(31) PCT/EP2016/068052
(32) 28.07.2016
(33) World Intellectual Property Office (WIPO)
(47) 24.11.2021

(51) C07D 401/14
A61K 31/64
C07D 217/22
C07D 223/06
C07D 401/04
C07D 401/06
C07D 401/12
C07D 403/04
C07D 403/06
C07D 405/04
C07D 405/06
C07D 409/04
C07D 239/66
C07D 241/18
C07D 451/02
C07D 451/14
C07D 205/04
C07D 205/12
C07D 207/12
C07D 211/54
(11) EP3661925
(21) EP18743416.2
(22) 04.07.2018
(54) NOVEL SULFONAMIDE CARBOXAMIDE COMPOUNDS
(73) Inflazome Limited
(72) COOPER, Matthew
THOM, Stephen
ST-GALLAY, Stephen
VAN WILTENBURG, Jimmy
SHANNON, Jonathan
MACLEOD, Angus
MILLER, David
(74) ir. W.J.J.M. Kempes
(31) 201721726
201718563
201718561
201713082
201713079
201710943
(32) 22.12.2017
09.11.2017
09.11.2017
15.08.2017
15.08.2017
07.07.2017
(33) United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
United Kingdom
(47) 24.11.2021

(51) C07D 401/14
A61K 47/12
A61P 31/04
(11) EP3056492
(21) EP15199355.7
(22) 07.10.2005
(54) MEGLUMINE SALT AND CRYSTALLINE FORMS THEREOF OF A DRUG (DELAFLOXACIN)
(73) AbbVie Inc.
(72) Barnes, David, M.
Zhang, Geoff, G.
Henry, Rodger
Bradley, Michael, F.
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 617334 P
(32) 08.10.2004
(33) United States of America
(47) 22.09.2021

(51) C07D 403/12
C07D 413/14
A61K 31/416
A61K 31/4439
C07D 401/12
C07D 405/12
C07D 409/12
C07D 413/12
C07D 471/04
A61P 35/00
A61P 31/12
(11) EP3371172
(21) EP16805882.4
(22) 01.11.2016
(54) TETRAHYDROINDAZOLES AND MEDICAL USES THEREOF
(73) Genase Therapeutics B.V.
(72) LEEUWEN, Ingeborg van
JOHANSSON, Lars
SANDBERG, Lars
HARALDSSON, Martin
YNGVE, Ulrika
DRUMMOND, Catherine
LAIN, Sonia
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 1551410
201610823
(32) 02.11.2015
21.06.2016
(33) Sweden
United Kingdom
(47) 20.10.2021

(51) C07D 403/14
C07D 401/14
C07D 417/14
A61K 31/4025
A61P 25/00
A61P 25/30
(11) EP3180332
(21) EP15832417.8
(22) 13.08.2015
(54) DIFLUOROPYRROLIDINES AS OREXIN RECEPTOR MODULATORS
(73) Eolas Therapeutics Inc.
(72) HE, Yuanjun
KAMENECKA, Theodore M.
(74) ir. W.J.J.M. Kempes
(31) 201462037024 P
(32) 13.08.2014
(33) United States of America
(47) 27.10.2021

(51) C07D 405/14
A61K 31/497
C07D 403/14
C07D 241/18
C07D 241/20
C07D 487/08
C07D 487/10
C07D 491/107
C07D 519/00
A61P 35/00
C07D 401/14
C07D 401/04
C07D 498/04
C07D 213/61
C07D 213/64
(11) EP3612525
(21) EP18723183.2
(22) 19.04.2018
(54) PD-1/PD-L1 INHIBITORS
(73) Gilead Sciences, Inc.
(72) DU, Zhimin
MEDLEY, Jonathan William
MACHICAO TELLO, Paulo A.
JABRI, Salman Y.
PARKHILL, Eric Q.
VENKATARAMANI, Chandrasekar
WATKINS, William J.
SIMONOVICH, Scott Preston
APPLEBY, Todd
ZIEBENHAUS, Christopher Allen
NOTTE, Gregory
METOBO, Samuel E.
MUKHERJEE, Prasenjit Kumar
CHO, Aesop
AKTOUDIANAKIS, Evangelos
GRAUPE, Michael
GUERRERO, Juan A.
WANG, Peiyuan
YANG, Kin Shing
PHILLIPS, Barton W.
NADUTHAMBI, Devan
LAD, Lateshkumar Thakorlal
XU, Jie
SQUIRES, Neil H.
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201762507678 P
201762488017 P
(32) 17.05.2017
20.04.2017
(33) United States of America
United States of America
(47) 27.10.2021

(51) C07D 405/14
C07D 413/14
C07D 403/04
A61K 31/506
A61P 35/00
(11) EP3331877
(21) EP16753709.1
(22) 04.08.2016
(54) PYRAZOLE PYRIMIDINE DERIVATIVE AND USES THEREOF
(73) Yissum Research Development Company of the Hebrew University of Jerusalem Ltd.
(72) BEN NERIAH, Yinon
BRACHYA, Guy
SNIR-ALKALAY, Irit
MINZEL, Waleed
VACCA, Joseph
LI, Dansu
BURSTAIN, Ido
(74) dr. A. Krebs
(31) 201562268750 P
201562200846 P
(32) 17.12.2015
04.08.2015

(33) United States of America
United States of America
(47) 22.09.2021

(51) C07D 471/04
A61K 31/437
(11) EP3672967
(21) EP18759307.4
(22) 23.08.2018
(54) AZAINDOLYLPYRIDONE AND DIAZAINDOLYLPYRIDONE COMPOUNDS
(73) Sprint Bioscience AB
(72) RAHM, Fredrik
LINDSTRÖM, Johan
VIKLUND, Jenny
FORSBLOM, Rickard
(74) ir. H.A. Witmans c.s.
(31) 17187519
(32) 23.08.2017
(33) European Patent Office (EPO)
(47) 06.10.2021

(51) C07D 471/04
C07D 487/04
A61K 31/437
A61K 31/519
A61P 31/16
(11) EP3400225
(21) EP17700614.5
(22) 05.01.2017
(54) PENTANOIC ACIDS SUBSTITUTED BY PYRROLO-[2-3,B]PYRIMIDINE-PYRIDINES FOR THE TREATMENT OF INFLUENZA VIRAL INFECTIONS
(73) Janssen Sciences Ireland Unlimited Company
(72) MC GOWAN, David, Craig
LANÇOIS, David, Francis, Alain
MOTTE, Magali, Madeleine, Simone
LAMBERT, Emilie, Marie
GUILLEMONT, Jérôme, Émile, Georges
BALEMANS, Wendy, Mia, Albert
(74) ir. W.J.J.M. Kempes
(31) 16150457
(32) 07.01.2016
(33) European Patent Office (EPO)
(47) 10.11.2021

(51) C07D 471/04
C07D 487/04
A61K 31/437
A61K 31/519
A61P 35/00
(11) EP3689871
(21) EP18862262.5
(22) 03.08.2018
(54) 4,6,7-TRISUBSTITUTED 1,2-DIHYDROPYRROL[3,4-C]PYRIDIN/PYRIMIDIN-3-ONE DERIVATIVE AND USE
(73) Shanghai Haiyan Pharmaceutical Technology Co., Ltd.
Yangtze River Pharmaceutical Group Co., Ltd.
(72) CHEN, Xiang
HE, Wan
XIE, Jing
ZHAO, Jinzhu
QIAO, Changjiang
CHEN, Xi
HUANG, Dong
ZHANG, Kai
GUO, Shuchun
ZHOU, Fusheng
LAN, Jiong
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201710897909
(32) 28.09.2017
(33) China
(47) 29.09.2021

(51) C07D 471/04
C07D 487/04
A61K 31/437
A61K 31/519
A61P 35/00
A61P 37/00
(11) EP3409672
(21) EP16887788.4
(22) 28.12.2016
(54) PARAZOLE CONDENSED-RING DERIVATIVES AND PREPARATION METHOD THEREOF AND APPLICATION THEREOF IN TREATMENT OF CANCERS, INFLAMMATION AND IMMUNE DISEASES
(73) Beijing InnoCare Pharma Tech Co., Ltd.
(72) CHEN, Xiangyang
PANG, Yucheng
(74) J.M.H. Duyver lic.
(31) 201610066886
(32) 29.01.2016
(33) China
(47) 08.12.2021

(51) C07D 471/04
C07D 487/04
C07D 498/04
A61K 31/437
A61P 35/00
(11) EP3539961
(21) EP19165726.1
(22) 27.06.2016
(54) POLYCYCLIC AMIDE DERIVATIVES AS CDK9 INHIBITORS
(73) Astrazeneca AB
(72) BARLAAM, Bernard, Christophe
HIRD, Alexander
HAWKINS, Janet
PIKE, Kurt, Gordon
DE SAVI, Christopher
VASBINDER, Melissa Marie
LAMB, Michelle
(74) ir. W.J.J.M. Kempes
(31) 201562185852 P
(32) 29.06.2015
(33) United States of America
(47) 06.10.2021

(51) C07D 487/04
A61K 31/5517
A61P 11/00
(11) EP3500573
(21) EP17758373.9
(22) 16.08.2017
(54) GABA(A) RECEPTOR MODULATORS AND METHODS TO CONTROL AIRWAY HYPERRESPONSIVENESS AND INFLAMMATION IN ASTHMA
(73) UWM Research Foundation, Inc.
The Trustees of Columbia University in the City of New York
(72) FORKUO, Gloria
EMALA, Charles, W.
KODALI, Revathi
STEPHEN, Michael, Rajesh
ARNOLD, Alexander, E.
LI, Guanguan
STAFFORD, Douglas, C.
COOK, James, M.
JAHAN, Rajwana
(74) ir. H.A. Witmans c.s.
(31) 201662427771 P
201662375694 P
(32) 29.11.2016
16.08.2016
(33) United States of America
United States of America
(47) 06.10.2021

(51) C07D 491/04
C07D 519/00
A61P 25/16
A61K 31/519
(11) EP3717488
(21) EP18819287.6
(22) 26.11.2018
(54) SUBSTITUTED FURANOPYRIMIDINE COMPOUNDS AS PDE1 INHIBITORS
(73) Dart NeuroScience, LLC
(72) BURNS, Aaron
WEINHOUSE, Michael
MCCARRICK, Margaret
KLEINKE, Andrew
BOTROUS, Iriny
CHUNG, DeMichael
DYCK, Brian
KUMAR, Dange, Vijay
RAFFAELE, Nicholas
TRAN, Joe
BOOKSER, Brett
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201762591105 P
(32) 27.11.2017
(33) United States of America
(47) 29.09.2021

(51) C07D 495/04
(11) EP3475288
(21) EP17739322.0
(22) 22.06.2017
(54) PROCESS FOR THE PREPARATION OF HIGH-PURITY PRASUGREL
(73) Richter Gedeon Nyrt.
(74) ir. W.J.J.M. Kempes
(31) 1600389
(32) 23.06.2016
(33) Hungary
(47) 03.11.2021

(51) C07D 498/10
A61K 31/438
A61P 31/06
(11) EP3668879
(21) EP18752171.1
(22) 15.08.2018
(54) NOVEL COMPOUNDS
(73) GlaxoSmithKline Intellectual Property Development Limited
Bioversys AG
(72) DEPREZ, Benoit

WILLAND, Nicolas
PORRAS DE FRANCISCO, Esther
REMUIÑAN-BLANCO, Modesto Jesús
BOUROTTE, Marilyne
(31) 17382569
(32) 16.08.2017
(33) European Patent Office (EPO)
(47) 29.09.2021

(51) C07F 5/02
C08F 230/06
(11) EP3464300
(21) EP17732514.9
(22) 30.05.2017
(54) NOVEL COMPOUNDS, FUNCTIONALISED DIOXABOROLANE OR DIOXABORINANE DERIVATIVES, METHOD FOR PREPARING SAME AND USES THEREOF
(73) Ecole Supérieure de Physique et Chimie Industrielles de la Ville de Paris
Centre National de la Recherche Scientifique (CNRS)
(72) LEIBLER, Ludwik
NICOLAY, Renaud
(74) ir. F.A. Geurts c.s.
(31) 1654837
(32) 30.05.2016
(33) France
(47) 01.12.2021

(51) C07F 9/30
C09K 21/12
(11) EP3487861
(21) EP17740721.0
(22) 12.07.2017
(54) DIORGANYLPHOSPHINIC ACID SALTS, METHOD FOR THE PRODUCTION THEREOF AND THE USE THEREOF
(73) Clariant International Ltd
(72) HÖROLD, Sebastian
BAUER, Harald
SICKEN, Martin
(74) J.M.H. Duyver lic.
(31) 102016213280
(32) 20.07.2016
(33) Germany
(47) 01.12.2021

(51) C07F 9/6558
A61K 31/675
A61P 35/00
C07F 9/655
A61K 31/7072
A61K 45/06
C07F 9/6584
C07H 19/10
A61P 35/02
A61P 43/00
(11) EP3447061
(21) EP18178715.1
(22) 29.02.2012
(54) PHARMACEUTICAL FORMULATION COMPRISING A PHOSPHORAMIDATE DERIVATIVE OF 5-FLUORO-2'-DEOXYURIDINE FOR USE IN THE TREATMENT OF CANCER
(73) NuCana plc
(72) SLUSARCYZK, Magdalena
MCGUIGAN, Christopher
GONCZY, Blanka
BALZARINI, Jan
MURZIANI, Paola
(74) dr. A. Krebs
(31) 201105660
201103582
(32) 01.04.2011
01.03.2011
(33) United Kingdom
United Kingdom
(47) 24.11.2021

(51) C07H 1/00
C07H 3/02
(11) EP3746453
(21) EP19706389.4
(22) 31.01.2019
(54) PROCESS FOR THE CONVERSION OF A SOLID MATERIAL CONTAINING HEMICELLULOSE, CELLULOSE AND LIGNIN
(73) Avantium Knowledge Centre B.V.
(72) GRUTER, Gerardus Johannes Maria
MCKAY, Benjamin
KERSBULCK, Martijn
(74) drs. A.M.A. Rovers
(31) 2020356
(32) 31.01.2018
(33) Netherlands
(47) 20.10.2021

(51) C07K 7/02
A61K 38/05
A61K 47/50
A61P 35/00
C07D 207/08
C07K 5/027
(11) EP3194421
(21) EP15842388.9
(22) 17.09.2015
(54) CYTOTOXIC AND ANTI-MITOTIC COMPOUNDS, AND METHODS OF USING THE SAME
(73) Zymeworks Inc.
(74) ir. W.J.J.M. Kempes
(31) 201462051883 P
(32) 17.09.2014
(33) United States of America
(47) 03.11.2021

(51) C07K 7/08
C12N 15/11
C12N 15/63
C12N 9/22
(11) EP3464323
(21) EP17733918.1
(22) 26.05.2017
(54) PEPTIDES AND NANOPARTICLES FOR INTRACELLULAR DELIVERY OF GENOME-EDITING MOLECULES
(73) Aadigen, LLC
(72) DIVITA, Gilles
DESAI, Neil
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201762477357 P
201662394140 P
201662342823 P
(32) 27.03.2017
13.09.2016
27.05.2016
(33) United States of America
United States of America
United States of America
(47) 22.09.2021

(51) C07K 14/245
C12P 7/00
C12N 9/00
C12R 1/00
(11) EP3481851
(21) EP17749122.2
(22) 06.07.2017
(54) METHOD FOR THE FERMENTATIVE PRODUCTION OF MOLECULES OF INTEREST BY MICROORGANISMS COMPRISING GENES CODING SUGAR PHOSPHOTRANSFERASE SYSTEM (PTS)
(73) Metabolic Explorer
(72) RAYNAUD, Céline
CORRE, Gwénaëlle
(74) ir. F.A. Geurts c.s.
(31) PCT/IB2016/001123
(32) 08.07.2016
(33) World Intellectual Property Office (WIPO)
(47) 24.11.2021

(51) C07K 14/705
C07K 19/00
C07K 14/47
(11) EP3166968
(21) EP15786710.2
(22) 01.05.2015
(54) COMPOSITIONS AND METHODS OF CHIMERIC AUTOANTIBODY RECEPTOR T CELLS
(73) The Trustees of the University of Pennsylvania
(72) MILONE, Michael C.
ELLEBRECHT, Christoph T.
BHOJ, Vijay
PAYNE, Aimee S.
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201461987989 P
(32) 02.05.2014
(33) United States of America
(47) 22.09.2021

(51) C07K 16/22
A61K 39/00
C12N 15/63
A61P 15/12
C07K 14/51
A61P 19/00
A61P 19/08
A61P 19/10
A61P 43/00
(11) EP2345668
(21) EP10014360.1
(22) 28.04.2006
(54) SCLEROSTIN EPITOPES
(73) UCB Pharma, S.A.
Amgen, Inc.
(72) Winters, Aaron George
Lawson, Alastair
Latham, John
Henry, Alistair James
Paszty, Christopher
Winkler, David
Robinson, Martyn Kim
Hoffmann, Kelly Sue
Lu, Hsieng Sen
(74) ir. M.F.J.M. Ketelaars c.s.

(31) 410540
792645 P
782244 P
776847 P
677583 P
(32) 25.04.2006
17.04.2006
13.03.2006
24.02.2006
03.05.2005
(33) United States of America
United States of America
United States of America
United States of America
United States of America
(47) 22.09.2021

(51) C07K 16/28
A61K 39/395
(11) EP3464361
(21) EP17728411.4
(22) 26.05.2017
(54) ANTI-CD40 ANTIBODIES AND THEIR USES
(73) AbbVie Biotherapeutics Inc.
(72) YE, Shiming
COHEN, Diane Sau Mun
HOLLENBAUGH, Diane
(74) dr. W.A.H.M. Van Borm
(31) 201662342417 P
(32) 27.05.2016
(33) United States of America
(47) 10.11.2021

(51) C07K 16/28
A61K 39/395
A61K 39/00
A61P 37/00
(11) EP3242892
(21) EP16700803.6
(22) 08.01.2016
(54) ALTERED APRIL BINDING ANTIBODIES
(73) Aduro Biotech Holdings, Europe B.V.
(72) VAN ELSAS, Andrea
MEDEMA, Jan Paul
HULSIK, David Lutje
VAN EENENNAAM, Hans
(74) ir. W.J.J.M. Kempes
(31) 2014108
(32) 09.01.2015
(33) Netherlands
(47) 20.10.2021

(51) C07K 16/28
A61K 39/395
A61P 35/00
A61P 35/02
(11) EP3556775
(21) EP19161885.9
(22) 26.01.2015
(54) ANTI-LAG-3 ANTIBODIES TO TREAT HEMATOLOGICAL MALIGNANCIES
(73) Bristol-Myers Squibb Company
(72) HILL, Christopher Mark
GUTIERREZ, Andres A.
LEWIS, Katherine E.
GROSSO, Joseph
SELBY, Mark
(74) ir. H.A. Witmans c.s.
(31) 201461932589 P
(32) 28.01.2014
(33) United States of America
(47) 17.11.2021

(51) C07K 16/28
A61N 5/00
A61N 5/10
(11) EP3455258
(21) EP17726759.8
(22) 12.05.2017
(54) METHODS OF TREATING SKIN CANCER BY ADMINISTERING A PD-1 INHIBITOR
(73) Regeneron Pharmaceuticals, Inc.
(72) LOWY, Israel
FURY, Matthew, G.
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201762451274 P
201662374020 P
201662364920 P
201662350305 P
201662348546 P
201662340142 P
201662335743 P
(32) 27.01.2017
12.08.2016
21.07.2016
15.06.2016
10.06.2016
23.05.2016
13.05.2016
(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
(47) 13.10.2021

(51) C07K 16/28
C07K 16/30
A61P 35/00
(11) EP3353212
(21) EP16781236.1
(22) 23.09.2016
(54) OPTIMIZED ANTI-CD3 BISPECIFIC ANTIBODIES AND USES THEREOF
(73) Regeneron Pharmaceuticals, Inc.
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201562222605 P
(32) 23.09.2015
(33) United States of America
(47) 03.11.2021

(51) C07K 16/28
C07K 16/32
C07K 16/22
A61K 39/395
(11) EP3138853
(21) EP16185391.6
(22) 22.09.2008
(54) FC VARIANTS WITH ALTERED BINDING TO FCRN
(73) Xencor, Inc.
(72) KARKI, Sher, Bahadur
DESJARLAIS, John, Rudolph
CHAMBERLAIN, Aaron
DAHIYAT, Bassil
(74) dr. W.A.H.M. Van Borm
(31) 932151
(32) 31.10.2007
(33) United States of America
(47) 24.11.2021

(51) C07K 16/36
C12N 1/15
C12N 1/19
C12N 1/21
C12N 5/10
C12N 15/02
C12P 21/08
(11) EP3233921
(21) EP15869565.0
(22) 18.12.2015
(54) ANTI-C5 ANTIBODIES AND METHODS OF USE
(73) Chugai Seiyaku Kabushiki Kaisha
(72) RUIKE, Yoshinao
SAMPEI, Zenjiro
(74) ir. A. Blokland c.s.
(31) 2014257647
(32) 19.12.2014
(33) Japan
(47) 29.09.2021

(51) C07K 16/40
A61K 39/00
(11) EP3004171
(21) EP14737087.8
(22) 06.06.2014
(54) METHODS FOR INHIBITING ATHEROSCLEROSIS BY ADMINISTERING AN INHIBITOR OF PCSK9
(73) Regeneron Pharmaceuticals, Inc.
Sanofi Biotechnology
(72) PEYMAN, Anusch
GUSAROVA, Viktoria
SASIELA, William J.
SCHWAHN, Uwe
SCHAEFER, Hans-ludwig
(74) ir. W.J.J.M. Kempes
(31) 201462002508 P
201461944855 P
201361892215 P
201361832459 P
13306436
13305762
(32) 23.05.2014
26.02.2014
17.10.2013
07.06.2013
18.10.2013
07.06.2013
(33) United States of America
United States of America
United States of America
United States of America
European Patent Office (EPO)
European Patent Office (EPO)
(47) 13.10.2021

(51) C08F 4/6592
C08F 4/659
C08F 4/64
C08F 210/16
(11) EP3519450
(21) EP17788338.6
(22) 26.09.2017
(54) BIOMODAL POLYMERIZATION CATALYSTS

(73) Univation Technologies, LLC
(72) MURE, Cliff R.
LYNN, Timothy R.
(74) ir. J.D. de Zeeuw
(31) 201662402592 P
(32) 30.09.2016
(33) United States of America
(47) 20.10.2021

(51) C08F 230/08
C09D 5/16
C09D 143/04
C09D 133/14
C08F 220/28
(11) EP3617240
(21) EP19790113.5
(22) 02.07.2019
(54) VEHICLE RESIN FOR AN ANTIFOULING COATING
(73) Nippon Paint Marine Coatings Co., Ltd.
(72) NAGASE, Yasuhisa
SHIMADA, Mamoru
YAMAMORI,Naoki
MATSUDA, Masayuki
(74) ir. F.A. Geurts c.s.
(31) 2018126809
(32) 03.07.2018
(33) Japan
(47) 01.12.2021

(51) C08F 265/06
C08F 265/04
C08L 33/00
A61L 24/06
(11) EP2313444
(21) EP09785488.9
(22) 13.08.2009
(54) A HARDENABLE TWO PART ACRYLIC COMPOSITION
(73) Mitsubishi Chemical UK Limited
(72) ABED-ALI, Sera Saheb
McDONALD, David
CHISHOLM, Michael, Stephen
(74) ir. W.J.J.M. Kempes
(31) 0903912
0814854
(32) 06.03.2009
14.08.2008
(33) United Kingdom
United Kingdom
(47) 10.11.2021

(51) C08G 18/38
H01B 1/00
C08L 75/16
C08J 5/18
C08G 18/61
C08F 290/06
C08G 18/67
C08G 18/48
C08G 18/42
C08G 18/32
C08G 18/75
A61B 5/00
C09D 151/08
H01B 1/22
H01B 1/24
(11) EP3674338
(21) EP19217759.0
(22) 18.12.2019

(54) STRETCHABLE WIRING FILM AND METHOD FOR FORMING THE SAME
(73) Shin-Etsu Chemical Co., Ltd.
(72) Hatakeyama, Jun
(74) J.M.H. Duyver lic.
(31) 2018243484
(32) 26.12.2018
(33) Japan
(47) 29.09.2021

(51) C08G 18/48
C08G 18/81
C08G 18/63
C08G 101/00
(11) EP3510067
(21) EP17765361.5
(22) 29.08.2017
(54) MACROMER FOR USE IN POLYMER POLYOL DISPERSIONS, AND METHOD FOR PRODUCING SUCH A MACROMER
(73) BASF SE
(72) KOENIG, Christian
PETROVIC, Dejan
(74) ir. W.J.J.M. Kempes
(31) 16187879
(32) 08.09.2016
(33) European Patent Office (EPO)
(47) 06.10.2021

(51) C08G 69/36
C08L 77/00
C08L 77/02
C08L 77/06
(11) EP2483329
(21) EP10757776.9
(22) 28.09.2010
(54) HIGH-FLUIDITY POLYAMIDES
(73) POLYTECHNYL S.A.S.
(72) SPERONI, Franco
ZAHER, Damien
(74) J.M.H. Duyver lic.
(31) 0956789
(32) 30.09.2009
(33) France
(47) 22.09.2021

(51) C08G 71/04
C07C 271/12
C08F 22/22
C09D 4/00
C09D 175/16
C09J 175/16
B33Y 10/00
(11) EP3207078
(21) EP15788172.3
(22) 13.10.2015
(54) NON-ISOCYANATE URETHANE MONO- OR MULTIACRYLATE OLIGOMERS
(73) Arkema France
(72) MONNIER, Guillaume
LEROY, Catherine
(74) ir. W.J.J.M. Kempes
(31) 1459890
(32) 15.10.2014
(33) France
(47) 13.10.2021

(51) C08H 8/00
(11) EP3728408
(21) EP18811273.4
(22) 04.12.2018

(54) METHOD FOR TREATING LIGNOCELLULOSIC BIOMASS BY IMPREGNATION
(73) Agro Industries Recherche Et Developpement
Institut national de recherche pour l'agriculture, l'alimentation et l'environnement
IFP Energies nouvelles
(72) BOUILLON, Pierre-Antoine
ROUSSET, Romain
AYMARD, Caroline
CARNNOT, Olivier
(74) ir. W.J.J.M. Kempes
(31) 1762611
(32) 20.12.2017
(33) France
(47) 06.10.2021

(51) C08J 3/205
C08J 3/22
C08J 11/10
(11) EP3676316
(21) EP18759135.9
(22) 31.08.2018
(54) LIQUID COMPOSITION COMPRISING BIOLOGICAL ENTITIES AND USES THEREOF
(73) Carbios
(72) GUEMARD, Elodie
DALIBEY, Mediha
(74) J.M.H. Duyver lic.
(31) 17306117
(32) 31.08.2017
(33) European Patent Office (EPO)
(47) 06.10.2021

(51) C08J 11/06
C09D 7/80
(11) EP2663603
(21) EP12700655.9
(22) 13.01.2012
(54) METHOD FOR MANUFACTURING EMULSION PAINT
(73) Newlife Paints Limited
(74) dr. A. Krebs
(31) 201100626
(32) 14.01.2011
(33) United Kingdom
(47) 03.11.2021

(51) C08K 3/36
C09D 163/00
C08K 7/26
C08L 63/00
F16L 59/00
(11) EP3743466
(21) EP19700837.8
(22) 23.01.2019
(54) BINDER COMPOSITION AND USE THEREOF
(73) Dow Silicones Corporation
Worlée-Chemie GmbH
(72) PIERRE, David
MÜLLER, Joachim
ADEBAHR, Thorsten
(74) J.M.H. Duyver lic.
(31) 18153079
(32) 23.01.2018
(33) European Patent Office (EPO)
(47) 17.11.2021

(51) C08K 3/36
C09D 163/00
C08K 7/26
C08L 63/00
F16L 59/00
(11) EP3743467
(21) EP19700839.4
(22) 23.01.2019
(54) BINDER COMPOSITION AND USE THEREOF
(73) Dow Silicones Corporation
Worlée-Chemie GmbH
(72) ADEBAHR, Thorsten
MÜLLER, Joachim
PIERRE, David
(74) J.M.H. Duyver lic.
(31) 18153079
(32) 23.01.2018
(33) European Patent Office (EPO)
(47) 17.11.2021

(51) C08K 5/5313
(11) EP3697835
(21) EP18786713.0
(22) 09.10.2018
(54) FLAME-RETARDANT AND COLOR-STABLE POLYAMIDE MOLDING COMPOUNDS
(73) Clariant International Ltd
(72) SCHLOSSER, Elke
HÖROLD, Sebastian
LEUSCHNER, Eva-Maria
(74) J.M.H. Duyver lic.
(31) 102017218453
(32) 16.10.2017
(33) Germany
(47) 08.12.2021

(51) C08L 3/02
(11) EP3737714
(21) EP19700230.6
(22) 11.01.2019
(54) THERMOPLASTIC STARCH
(73) Agrana Beteiligungs- Aktiengesellschaft
(72) FAHRNGRUBER, Barbara
WASTYN, Marnik Michel
KOZICH, Martin
(74) ir. H.A. Witmans c.s.
(31) 18151223
(32) 11.01.2018
(33) European Patent Office (EPO)
(47) 10.11.2021

(51) C08L 9/10
A41D 19/00
A41D 19/04
B29C 41/14
C08K 5/31
C08K 5/39
(11) EP3674358
(21) EP18847452.2
(22) 20.08.2018
(54) LATEX COMPOSITION, SHAPED OBJECT OBTAINED THEREFROM, AND METHOD FOR PRODUCING SAID SHAPED OBJECT
(73) Sumitomo Seika Chemicals Co., Ltd.
(72) SUGIHARA, Norihiro
SAWADA, Kouhei
MIYAZAKI, Hiromasa
(74) ir. J.C. Volmer c.s.
(31) 2017158778
(32) 21.08.2017
(33) Japan
(47) 15.12.2021

(51) C08L 67/06
(11) EP2981560
(21) EP14778463.1
(22) 31.03.2014
(54) CURING OF LIQUID THERMOSETTING RESINS
(73) Reichhold LLC 2
(72) NAVA, Hildeberto
SKROBACKI, Anthony
(74) ir. H.A. Witmans c.s.
(31) 201414229517
201361808686 P
(32) 28.03.2014
05.04.2013
(33) United States of America
United States of America
(47) 13.10.2021

(51) C08L 101/10
C08L 83/04
C08K 5/098
C08K 5/16
C08G 77/16
C08G 77/18
C08K 5/09
C08K 5/17
C08K 5/56
C09D 183/04
C09J 183/04
(11) EP3712215
(21) EP18879105.7
(22) 08.11.2018
(54) CURING CATALYST FOR ORGANIC POLYMER OR ORGANOPOLYSILOXANE, MOISTURE-CURABLE COMPOSITION, CURED PRODUCT, AND PRODUCTION METHOD THEREFOR
(73) Nitto Kasei Co., Ltd.
(72) YOSHIYAMA, Haruka
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 2017219482
(32) 14.11.2017
(33) Japan
(47) 27.10.2021

(51) C09D 5/00
(11) EP3556817
(21) EP19169739.0
(22) 17.04.2019
(54) FUNCTIONALIZED POLYMER COMPOSITIONS FOR LOW VOC COALESCENCE OF WATER BASED EMULSIONS
(73) The University of Akron
Swimc, LLC
(72) Makowski, Brian
Soucek, Mark
Cobaj, Anisa
(74) ir. W.J.J.M. Kempes
(31) 201862659317 P
(32) 18.04.2018
(33) United States of America
(47) 15.12.2021

(51) C09D 5/00
C09D 7/41
C09D 7/45
C09D 7/61
B05D 7/00
C09D 5/33
C08F 293/00
C09D 17/00
C08K 5/00
C08L 53/00
C09D 7/40
(11) EP2493988
(21) EP10774380.9
(22) 26.10.2010
(54) SOLAR REFLECTIVE COATINGS AND COATING SYSTEMS
(73) PPG Industries Ohio, Inc.
(72) HELLRING, Stuart D.
McQUOWN, Stephen G.
MINCH, Britt A.
DECKER, Eldon L.
VANIER, Noel R.
POLK, W. David
(74) dr. W.A.H.M. Van Borm
(31) 607681
(32) 28.10.2009
(33) United States of America
(47) 08.12.2021

(51) C09D 183/06
C09D 183/08
C08G 77/14
C08G 77/16
C08G 77/18
C08G 77/382
C08G 77/388
C09J 183/06
C09J 183/08
C08L 83/06
C08L 83/08
(11) EP3623436
(21) EP18194659.1
(22) 14.09.2018
(54) ENDCAPPED CURABLE POLYORGANOSILOXANES
(73) Henkel AG & Co. KGaA
(72) Hemery, Therese
Boudet, Hélène
Klein, Johann
(74) ir. M.F.J.M. Ketelaars c.s.
(47) 27.10.2021

(51) C09K 3/32
C02F 1/56
E02B 15/04
C02F 101/32
C02F 1/28
C02F 1/40
(11) EP3156470
(21) EP15807355.1
(22) 09.06.2015
(54) SUBSTANCE FOR COLLECTING PETROLEUM OR PETROLEUM PRODUCTS FROM SURFACE OF WATER AND UTILIZATION METHOD THEREOF (VARIANTS)
(73) BIOMICROGELS UK LIMITED
(72) MIRONOV, Maksim Anatolevich
SHULEPOV, Ilya Dmitrievich
ELAGIN, Andrey Aleksandrovich
(74) dr. A. Krebs
(31) 2014124090

(32) 11.06.2014
(33) Russian Federation
(47) 06.10.2021

(51) C09K 21/04
C09K 21/12
C08K 5/00
C08L 77/00
(11) EP3495451
(21) EP18215824.6
(22) 12.02.2014
(54) FLAME RETARDANT COMPOSITION
(73) J.M. Huber Corporation
(72) KÖSTLER, Hans-Günter
WEHNER, Wolfgang
DAVE, Trupti
LEISTNER, Marcus
PFAENDNER, Rudolf
BOURGEOIS, Yann
(74) ir. J.D. de Zeeuw
(31) 102013210902
102013202351
(32) 11.06.2013
13.02.2013
(33) Germany
Germany
(47) 15.09.2021

(51) C09K 21/08
C09K 21/12
(11) EP3555230
(21) EP17881186.5
(22) 14.12.2017
(54) ANTIMONY FREE FLAME-RETARDED EPOXY COMPOSITIONS
(73) Bromine Compounds Ltd.
(72) ABECASSIS-WOLFOVICH, Meyrav
SWISSA, Smadar
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201762476800 P
201662433811 P
(32) 26.03.2017
14.12.2016
(33) United States of America
United States of America
(47) 22.09.2021

(51) C10L 1/18
C10L 1/185
C10L 1/19
C10L 10/10
(11) EP3320059
(21) EP16741677.5
(22) 05.07.2016
(54) GASOLINE COMPOSITIONS WITH IMPROVED OCTANE NUMBER
(73) Rhodia Poliamida e Especialidades S.A.
(72) MARTINS, Sergio
NICOLAS, Sébastien
GRIGOLETTO, Fernanda
(74) ir. W.J.J.M. Kempes
(31) PCT/IB2015/001131
(32) 06.07.2015
(33) World Intellectual Property Office (WIPO)
(47) 13.10.2021

(51) C10M 169/04
(11) EP3778841
(21) EP20186940.1
(22) 21.07.2020
(54) METHOD FOR REDUCING PISTON DEPOSITS IN A MARINE DIESEL ENGINE
(73) Infineum International Limited
(72) CLITHEROW, Tim
MARSH, Adam
HUGHES, Jonathan
(74) ir. H.A. Witmans c.s.
(31) 19191918
(32) 15.08.2019
(33) European Patent Office (EPO)
(47) 24.11.2021

(51) C11B 9/00
C07C 43/303
C07C 43/305
C07C 43/307
C07C 43/315
C07C 41/54
A23L 27/20
(11) EP3728532
(21) EP18811296.5
(22) 06.12.2018
(54) ODOROUS ACETALS OF ETHYL VANILLIN AND ETHYL VANILLIN DERIVATIVES
(73) S H Kelkar and Company Limited
(72) SCHOLTEN, Andre
DOSZCZAK, Leszek
DZIK, Wojciech
(74) dr. W.A.H.M. Van Borm
(31) 17209062
(32) 20.12.2017
(33) European Patent Office (EPO)
(47) 10.11.2021

(51) C12M 3/00
C12M 1/36
(11) EP3728554
(21) EP18842516.9
(22) 10.12.2018
(54) BIOPROCESS CONTROL DEVICE AND BIOPROCESS SYSTEM
(73) Eppendorf AG
(72) SCHNEIDER, Falk
ERTEL, Guido
RECKER, Wolfgang
HUFEN, Tristan
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 17208569
(32) 19.12.2017
(33) European Patent Office (EPO)
(47) 20.10.2021

(51) C12N 1/15
C12N 9/10
C12N 15/09
C12P 13/04
C12R 1/66
C12R 1/665
C12R 1/685
C12R 1/69
(11) EP3252142
(21) EP15880177.9
(22) 25.12.2015
(54) TRANSFORMED FUNGUS HAVING ENHANCED ERGOTHIONEINE PRODUCTIVITY AND METHOD FOR PRODUCING ERGOTHIONEINE
(73) Kikkoman Corporation
(74) ir. F.A. Geurts c.s.
(31) 2015157444
2015017328
(32) 07.08.2015
30.01.2015
(33) Japan
Japan
(47) 03.11.2021

(51) C12N 5/071
C12N 5/0784
G01N 33/50
(11) EP3562935
(21) EP17828760.3
(22) 26.12.2017
(54) THREE-DIMENSIONAL IN VITRO ALVEOLAR LUNG MODEL, PROCESS FOR PREPARING SAID MODEL, AND ITS USE FOR DETERMINING AND / OR PREDICTING THE SENSITIZING EFFECTS OF INHALABLE PRODUCTS
(73) Luxembourg Institute of Science and Technology (LIST)
(72) CHARY, Aline
SERCHI, Tommaso
GUTLEB, Arno
BLÖMEKE, Brunehilde
(74) ir. W.J.J.M. Kempes
(31) 93401
(32) 27.12.2016
(33) Luxembourg
(47) 06.10.2021

(51) C12N 5/0735
C12N 15/873
C12N 15/85
C12N 15/90
(11) EP3461885
(21) EP18188556.7
(22) 26.06.2015
(54) METHODS AND COMPOSITIONS FOR TARGETED GENETIC MODIFICATIONS AND METHODS OF USE
(73) Regeneron Pharmaceuticals, Inc.
(72) GAGLIARDI, Anthony
DROGUETT, Gustavo
FRENDEWEY, David
VALENZUELA, David
KUNO, Junko
AUERBACH, Wojtek
(74) dr. A. Krebs
(31) 201462017627 P
201462017582 P
(32) 26.06.2014
26.06.2014
(33) United States of America
United States of America
(47) 20.10.2021

(51) C12N 7/02
A01N 25/28
C12N 7/00
C12N 7/04
C07K 14/08
C12N 15/11
C07H 21/00
(11) EP2798059
(21) EP12860313.1
(22) 21.12.2012
(54) PROCESS FOR PURIFYING VLPS WITH CAPSIDS RESISTANT TO HYDROLASES

(73) APSE, LLC
(72) DELANEY, Kimberly
ARHANCET, Juan P.
ARHANCET, Juan Pedro Humberto
HALL, Kathleen B.
SUMMERS, Neena
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201261661688 P
201261607900 P
201161578706 P
(32) 19.06.2012
07.03.2012
21.12.2011
(33) United States of America
United States of America
United States of America
(47) 29.09.2021

(51) C12N 7/04
C07K 14/165
A61K 39/00
A61K 39/215
(11) EP3656856
(21) EP19208113.1
(22) 23.07.2015
(54) LIVE, ATTENUATED CORONAVIRUS COMPRISING A VARIANT REPLICASE GENE ENCODING POLYPROTEINS COMPRISING A MUTATION IN NSP-10.
(73) The Pirbright Institute
(72) Bickerton, Erica
Britton, Paul
Keep, Sarah
(74) ir. W.J.J.M. Kempes
(31) 201413020
(32) 23.07.2014
(33) United Kingdom
(47) 20.10.2021

(51) C12N 9/02
C12P 7/04
C12P 7/64
(11) EP3674399
(21) EP19212944.3
(22) 02.04.2013
(54) CAR ENZYMES AND IMPROVED PRODUCTION OF FATTY ALCOHOLS
(73) Genomatica, Inc.
(72) GROBAN, Eli S.
ZHU, Baolong
HU, Zhihao
CLARKE, Elizabeth
LEE, Sungwon
ARLAGADDA, Vikranth
LI, Xuezhi
GREENFIELD, Derek L.
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201261619309 P
(32) 02.04.2012
(33) United States of America
(47) 22.09.2021

(51) C12N 9/10
(11) EP3307880
(21) EP16732966.3
(22) 10.06.2016
(54) TRANSAMINASES
(73) c-LEcta GmbH
(72) SCHWARZE, Daniel
CZAJA, Rico
VOGEL, Andreas
BARTSCH, Sebastian
BAYER, Sally
(74) ir. W.J.J.M. Kempes
(31) 15171924
(32) 12.06.2015
(33) European Patent Office (EPO)
(47) 10.11.2021

(51) C12N 15/00
C12N 15/85
(11) EP3332005
(21) EP16751266.4
(22) 05.08.2016
(54) PROMOTER VARIANTS
(73) Lonza Ltd
(72) GASSER, Brigitte
MATTANOVICH, Diethard
PRIELHOFER, Roland
(74) ir. W.J.J.M. Kempes
(31) PCT/EP2015/068024
16163932
(32) 05.08.2015
05.04.2016
(33) World Intellectual Property Office (WIPO)
European Patent Office (EPO)
(47) 22.09.2021

(51) C12N 15/10
C12N 15/66
(11) EP3604524
(21) EP17901979.9
(22) 02.08.2017
(54) NEW TECHNIQUE FOR GENOMIC LARGE FRAGMENT DIRECT CLONING AND DNA MULTI-MOLECULAR ASSEMBLY
(73) Technische Universität Dresden
Shandong University
(72) FU, Jun
STEWART, Adrian Francis
WANG, Hailong
ZHANG, Youming
(74) ir. W.J.J.M. Kempes
(31) 201710177676
(32) 23.03.2017
(33) China
(47) 06.10.2021

(51) C12N 15/52
C12P 7/24
(11) EP3158069
(21) EP15728895.2
(22) 17.06.2015
(54) IMPROVED SELECTIVITY OF THE PRODUCTION OF VANILLOIDS IN A RECOMBINANT UNICELLULAR HOST
(73) Rhodia Operations
(72) RAMAEN, Odile
GELO-PUJIC, Mirjana
PANDJAITAN, Rudy
(74) ir. W.J.J.M. Kempes
(31) 14305936
(32) 18.06.2014
(33) European Patent Office (EPO)
(47) 13.10.2021

(51) C12N 15/63
C12N 5/10
(11) EP3594351
(21) EP19172906.0
(22) 07.03.2014
(54) YEAST PROMOTERS FROM PICHIA PASTORIS
(73) Keck Graduate Institute of Applied Life Sciences
(72) TOLSTORUKOV, Ilya I.
CREGG, James M.
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201361774982 P
(32) 08.03.2013
(33) United States of America
(47) 29.09.2021

(51) C12N 15/74
C12N 1/21
(11) EP3129489
(21) EP15776093.5
(22) 13.04.2015
(54) PRODUCTION OF SUCCINIC ACID FROM ORGANIC WASTE OR BIOGAS OR METHANE USING RECOMBINANT METHANOTROPHIC BACTERIUM
(73) String Bio Private Limited
(72) SUBBIAN, Ezhilkani
(74) ir. W.J.J.M. Kempes
(31) 1910CH2014
(32) 11.04.2014
(33) India
(47) 13.10.2021

(51) C12P 7/10
(11) EP2451962
(21) EP10734716.3
(22) 06.07.2010
(54) FERMENTATIVE PRODUCTION OF ETHANOL FROM GLUCOSE, GALACTOSE AND ARABINOSE EMPLOYING A RECOMBINANT YEAST STRAIN
(73) DSM IP Assets B.V.
(72) SUYLEKOM, VAN, Gijsberdina, Pieternella
KLAASSEN, Paul
BROERS, Nicolette, Jasmijn
GIELESEN, Bianca, Elisabeth, Maria
LAAT, DE, Wilhelmus, Theodorus, Antonius, Maria
WIEDEMANN, Beate
(74) ir. W.J.J.M. Kempes
(31) 09165229
(32) 10.07.2009
(33) European Patent Office (EPO)
(47) 13.10.2021

(51) C12P 7/64
(11) EP3013967
(21) EP14817250.5
(22) 20.06.2014
(54) PROCESSES FOR RECOVERING OIL FROM FERMENTATION PRODUCT PROCESSES AND PROCESSES FOR PRODUCING FERMENTATION PRODUCTS
(73) Novozymes A/S
(72) MATTHEWS, John
KREEL, Nathanial
CLARK, Suzanne
JUMP, Joseph
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201461991866 P
201461943794 P
201361863727 P

201361838650 P
(32) 12.05.2014
24.02.2014
08.08.2013
24.06.2013
(33) United States of America
United States of America
United States of America
United States of America
(47) 20.10.2021

(51) C12Q 1/00
C12Q 1/34
C12Q 1/56
G01N 33/579
(11) EP3494226
(21) EP17837616.6
(22) 02.08.2017
(54) METHOD OF DETECTING AN ENDOTOXIN USING LIMULUS AMEBOCYTE LYSATE SUBSTANTIALLY FREE OF COAGULOGEN
(73) Lonza Walkersville, Inc.
(72) STUMBAUGH, Candice
HERBST, David, S.
NICHOLS, Kenneth, E.
(74) ir. W.J.J.M. Kempes
(31) 201662370493 P
(32) 03.08.2016
(33) United States of America
(47) 22.09.2021

(51) C12Q 1/04
A61K 38/38
C07K 14/76
C07K 14/765
C12Q 1/02
C12Q 1/06
A01N 43/90
A01N 37/46
(11) EP3294900
(21) EP16793264.9
(22) 06.05.2016
(54) USE OF ALBUMIN-BASED NON-COVALENT COMPLEXES FOR THE DETECTION OF MICRO-ORGANISMS
(73) Spectral Platforms, Inc.
(72) VERMA, Ravi
YU, Changjun
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201662294931 P
201562158670 P
(32) 12.02.2016
08.05.2015
(33) United States of America
United States of America
(47) 22.09.2021

(51) C12Q 1/68
(11) EP3167076
(21) EP15736490.2
(22) 09.07.2015
(54) METHODS AND PRODUCTS FOR QUANTIFYING RNA TRANSCRIPT VARIANTS
(73) Lexogen GmbH
(72) REDA, Torsten
PAUL, Lukas
KUBALA, Petra
(74) ir. H.A. Witmans c.s.
(31) 14176417
(32) 09.07.2014
(33) European Patent Office (EPO)
(47) 17.11.2021

(51) C12Q 1/6841
(11) EP3617325
(21) EP19194184.8
(22) 28.08.2019
(54) RNA-GUIDED ENDONUCLEASE DNA LABELING
(73) Leibniz-Institut für Pflanzengenetik und Kulturpflanzenforschung (IPK)
(72) Ishii, Takayoshi
Houben, Andreas
(74) dr. ir. G.J.C. Verdijck c.s.
(31) 102018121111
100916
(32) 29.08.2018
29.08.2018
(33) Germany
Luxembourg
(47) 20.10.2021

(51) C12Q 1/6883
(11) EP3356561
(21) EP16852729.9
(22) 30.09.2016
(54) THERAPEUTIC AND DIAGNOSTIC METHODS FOR AUTOIMMUNE DISEASES AND/OR INFLAMMATION
(73) Momenta Pharmaceuticals, Inc.
(72) LING, Leona, E.
CAPILA, Ishan
MANNING, Anthony
FARUTIN, Victor
HALVEY, Patrick
MCCONNELL, Kevin
WASHBURN, Nathaniel
(74) ir. F.A. Geurts c.s.
(31) 201562236514 P
(32) 02.10.2015
(33) United States of America
(47) 27.10.2021

(51) C12Q 1/6886
(11) EP3126528
(21) EP15773840.2
(22) 03.04.2015
(54) METHODS FOR DETERMINING RESPONSIVENESS TO MEK/ERK INHIBITORS
(73) Crown Bioscience, Inc. (Taicang)
(72) ZHANG, Jing
NING, Jinying
GUO, Sheng
LI, Jixian
MEI, Zhu
QIAN, Wubin
(74) ir. M.B. Plaggenborg
(31) 201410135569
(32) 04.04.2014
(33) China
(47) 18.08.2021

(51) C12Q 1/6886
(11) EP3640345
(21) EP19210527.8
(22) 16.08.2016
(54) METHODS OF TREATING CANCER PATIENTS WITH FARNESYL TRANSFERASE INHIBITORS
(73) Kura Oncology, Inc.
(72) SCHOLZ, Catherine Rose
GUALBERTO, Antonio
(74) J.M.H. Duyver lic.
(31) 201662372662 P
201662310582 P
201562241019 P
201562218927 P
201562206194 P
(32) 09.08.2016
18.03.2016
13.10.2015
15.09.2015
17.08.2015
(33) United States of America
United States of America
United States of America
United States of America
United States of America
(47) 06.10.2021

(51) C14C 3/20
C14C 3/22
C14C 3/28
C14C 3/10
C14C 9/02
C14C 11/00
C09D 175/04
(11) EP3024950
(21) EP14744532.4
(22) 25.07.2014
(54) PROCESS FOR RETANNING LEATHER
(73) TFL Ledertechnik GmbH
(72) DÖPPERT, Florian
SCHULTE, Nina
FENNEN, Jens
KIENTZ, Eric
(74) ir. H.A. Witmans c.s.
(31) 13178154
(32) 26.07.2013
(33) European Patent Office (EPO)
(47) 06.10.2021

(51) C21D 1/607
C21D 1/63
C21D 1/70
C21D 1/46
C21D 9/46
C23G 5/00
C23C 2/00
(11) EP2954076
(21) EP13712601.7
(22) 06.02.2013
(54) THERMAL TREATMENT PROCESS OF A STEEL SHEET AND DEVICE FOR ITS IMPLEMENTATION
(73) ArcelorMittal
(72) BORDIGNON, Michel, Roger, Louis
GERKENS, Pascal
SMAL, Julien, Christopher, Michel
FARINHA, Ana, Isabel
LARNICOL, Maïwenn, Tifenn, Soazig
VANDEN EYNDE, Xavier, Marc, Jacques, Edmond,Robert
NOVILLE, Jean-François
(74) ir. M.F.J.M. Ketelaars c.s.
(47) 24.11.2021

(51) C21D 1/76
C21D 9/56
C23C 2/02
(11) EP3445877

(21) EP17719904.9
(22) 11.04.2017
(54) METHOD FOR PRODUCING A METALLIC COATED STEEL SHEET
(73) Arcelormittal
(72) BORDIGNON, Michel, Roger, Louis
BRIAULT, Pauline
SAINT-RAYMOND, Hubert
HOURMAN, Thierry
STAUDTE, Jonas
(74) ir. M.F.J.M. Ketelaars c.s.
(31) PCT/IB2016/000486
(32) 19.04.2016
(33) World Intellectual Property Office (WIPO)
(47) 27.10.2021

(51) C23C 2/02
C23C 2/06
C23C 2/28
C21D 9/46
C22C 38/00
C22C 38/02
C22C 38/06
C22C 38/38
C22C 38/46
C22C 38/48
C22C 38/50
C22C 38/54
C22C 38/58
C21D 9/56
C21D 9/573
C22C 18/04
C22C 38/42
C22C 38/44
C23C 2/04
C23C 2/40
B32B 15/01
C21D 1/74
C21D 1/76
(11) EP3707291
(21) EP18797147.8
(22) 19.10.2018
(54) A GALVANNEALED STEEL SHEET, METHOD OF MANUFACTURING AND USE THEREOF
(73) ArcelorMittal
(72) ZAPICO ALVAREZ, David
BERTRAND, Florence
GIROUX, Joris
(74) ir. M.F.J.M. Ketelaars c.s.
(31) PCT/IB2017/001343
(32) 08.11.2017
(33) World Intellectual Property Office (WIPO)
(47) 01.12.2021

(51) C23C 4/02
C23C 4/10
C23C 4/11
C23C 4/134
C23C 4/18
C23C 28/00
(11) EP3107673
(21) EP15751836.6
(22) 19.02.2015
(54) METHOD OF APPLYING A THERMAL BARRIER COATING
(73) Oerlikon Metco (US) Inc.
(72) DORFMAN, Mitchell R.
DAMBRA, Christopher G.
CHEN, Dianying
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201461942984 P
(32) 21.02.2014
(33) United States of America
(47) 10.11.2021

(51) C23C 16/27
C30B 25/02
C30B 29/04
(11) EP3394314
(21) EP16801251.6
(22) 25.11.2016
(54) THICK OPTICAL QUALITY SYNTHETIC POLYCRYSTALLINE DIAMOND MATERIAL WITH LOW BULK ABSORPTION AND LOW MICROFEATURE DENSITY
(73) Element Six Technologies Limited
(72) BENNETT, Andrew Michael
WICKHAM, Benjamin
(74) ir. F.A. Geurts c.s.
(31) 201522502
(32) 21.12.2015
(33) United Kingdom
(47) 17.11.2021

(51) C23C 16/455
C23C 16/44
C23C 16/54
(11) EP3514260
(21) EP18213261.3
(22) 18.12.2018
(54) THIN FILM DEPOSITION APPARATUS
(73) Tes Co., Ltd.
(72) Lee, Hong-Jae
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 20170174880
(32) 19.12.2017
(33) Korea (Republic)
(47) 20.10.2021

(51) C23F 11/02
C09K 15/06
(11) EP3739083
(21) EP20173820.0
(22) 11.05.2020
(54) COMPOSITIONS AND METHOD FOR RELEASING VAPOUR PHASE CORROSION INHIBITORS
(73) EXCOR Korrosionsforschung GmbH
(72) Faßbender, Frank
Leitner, Bianka
Wowsnick, Gregor
Hahn, Gerhard
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 102019112436
(32) 13.05.2019
(33) Germany
(47) 06.10.2021

(51) C25D 7/06
C25D 17/00
C25D 3/06
(11) EP3666931
(21) EP19206950.8
(22) 04.11.2019
(54) PROCESS OF FABRICATING A METAL BAND HAVING A CHROMIUM AND CHROMIUM OXIDE COATING USING A TRIVALENT CHROMIUM CONTAINING ELECTROLYTE
(73) thyssenkrupp AG
ThyssenKrupp Rasselstein GmbH
(72) Görtz, Rainer
Dr. Marmann, Andrea
Molls, Christoph
Lenz, Thomas
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 102018132075
(32) 13.12.2018
(33) Germany
(47) 20.10.2021

(51) D01D 1/10
C08J 11/04
D01F 6/62
B29C 48/05
B29C 48/425
B29C 48/92
B29C 48/385
B29C 48/38
B29C 48/40
(11) EP3666938
(21) EP20152109.3
(22) 13.05.2013
(54) METHOD FOR MANUFACTURING BULKED CONTINUOUS FILAMENTS
(73) Aladdin Manufacturing Corporation
(72) CLARK, Thomas
(74) ir. W.J.J.M. Kempes
(31) 201213721955
201261654016 P
(32) 20.12.2012
31.05.2012
(33) United States of America
United States of America
(47) 06.10.2021

(51) D21F 1/44
B42D 25/29
(11) EP2899312
(21) EP15000242.6
(22) 27.01.2015
(54) Dewatering fabric for the production of paper with a two-level watermark and method of manufacturing said fabric
(73) Giesecke+Devrient Currency Technology GmbH
(72) Gerhardt, Thomas
Fessl, Marion
Hovestadt, Kathrin
Seidemann, Wolfram
Pfeiffer, Matthias
(74) dr. W.A.H.M. Van Borm
(31) 102014001068
(32) 28.01.2014
(33) Germany
(47) 10.11.2021

(51) D21H 17/63
D21H 17/67
D21H 17/68
D21H 19/38
D21H 19/40
D21H 21/52
C09C 1/02
C09C 3/04
D21H 17/00
(11) EP2814888
(21) EP13703833.7
(22) 14.02.2013
(54) MINERAL MATERIAL POWDER WITH HIGH DISPERSION ABILITY, METHOD

FOR OBTAINING IT AND USE OF SAID MINERAL MATERIAL POWDER
(73) Omya International AG
(72) SPEHN, Jürgen
GONNON, Pascal
KARTH, Beat
MÜLLER, Holger
TINKL, Michael
BLANCHARD, Pierre
ELGOYHEN, Jean-Pierre
BRUNNER, Martin
(74) J.M.H. Duyver Iic.
(31) 201261601677 P
12156090
(32) 22.02.2012
17.02.2012
(33) United States of America
European Patent Office (EPO)
(47) 06.10.2021

(51) D21H 27/00
C11D 17/04
(11) EP3686343
(21) EP20163299.9
(22) 15.12.2016
(54) FIBROUS STRUCTURES COMPRISING THREE OR MORE REGIONS
(73) The Procter & Gamble Company
(72) ALGERS, John Daniel
WEISMAN, Paul Thomas
WANG, Fei
DE BEER, Antonius Lambertus
PUNG, David John
SUER, Michael Donald
ASHRAF, Arman
SONG, Cunming
BAO, Hailing
BARNHOLTZ, Stephen Lee
(31) 201562267453 P
(32) 15.12.2015
(33) United States of America
(47) 10.11.2021

(51) E01B 3/44
B29C 44/32
B29C 70/08
B29C 70/18
B29C 70/28
B29C 70/54
B29K 75/00
C08G 18/48
(11) EP3502349
(21) EP17841013.0
(22) 14.08.2017
(54) HIGH-FIBER-CONTENT FIBER-REINFORCED RIGID POLYURETHANE FOAM COMPOSITE RAILWAY SLEEPER AND METHOD FOR MANUFACTURING SAME
(73) China Academy of Railway Sciences Corporation Limited
Railway Engineering Research Institute of China Academy of Railway Sciences Corporation Limited
(72) SU, Yonghua
ZENG, Zhibin
ZHAO, Tibo
NIU, Bin
(74) ir. W.J.J.M. Kempes
(31) 201610683181
(32) 17.08.2016
(33) China
(47) 17.11.2021

(51) E01B 3/46
E01B 7/22
E01B 9/68
(11) EP3714101
(21) EP18792345.3
(22) 06.09.2018
(54) SWITCH
(73) Getzner Werkstoffe Holding GmbH
(72) LOY, Harald
(74) ir. A. Blokland c.s.
(31) 4552017
(32) 21.11.2017
(33) Austria
(47) 20.10.2021

(51) E01D 19/02
E01D 21/00
(11) EP3696320
(21) EP20156352.5
(22) 10.02.2020
(54) BRIDGE ABUTMENT WITH CONNECTION BETWEEN WALL REINFORCEMENT AND WING WALL ELEMENT
(73) Bauunternehmen Echterhoff GmbH & Co. KG
(72) Reddemann, Theo
(74) ir. J.C. Volmer c.s.
(31) 202019104913 U
202019100831 U
(32) 05.09.2019
13.02.2019
(33) Germany
Germany
(47) 13.10.2021

(51) E01F 9/70
(11) EP3643838
(21) EP19204941.9
(22) 23.10.2019
(54) A TRAFFIC CONES AND TRAFFIC CONE LANTERNS PLACEMENT AND COLLECTION SYSTEM AND A METHOD
(73) Highways Department, the Government of the Hong Kong Special Administratvie Region of the People's Republic of China
(72) HUNG, Terrie Kwok Chuen
AU, Ying Luen
YIP, Wing Fung
CHAN, Tat Ngong
XU, Jia
YIP, Cheuk Ming
POON, Chi Kin
(74) ir. W.J.J.M. Kempes
(31) 18113749
(32) 26.10.2018
(33) Hong Kong
(47) 15.09.2021

(51) E02B 17/00
F03D 13/25
B63B 35/00
B63B 35/44
B63B 27/30
B63B 75/00
B63B 21/50
F03D 13/10
(11) EP3526411
(21) EP18854180.9
(22) 03.08.2018
(54) OFFSHORE STRUCTURE MATING SYSTEM AND INSTALLATION METHOD
(73) SOFEC, Inc.
(72) NATARAJAN, Ananth
LINDBLADE, Stephen P.
(31) 201715695802
(32) 05.09.2017
(33) United States of America
(47) 06.10.2021

(51) E02D 7/00
E02D 7/14
(11) EP3286384
(21) EP16717156.0
(22) 19.04.2016
(54) A METHOD OF INSTALLING A PILE BY MEANS OF A PILE GUIDE
(73) IHC Holland IE B.V.
(72) MACK, James Ewart Milligan
(74) ir. A.R. Aalbers
(31) 2015237
2014689
(32) 29.07.2015
22.04.2015
(33) Netherlands
Netherlands
(47) 10.11.2021

(51) E02D 27/42
(11) EP3070205
(21) EP16160429.3
(22) 15.03.2016
(54) FOUNDATION PILE FOR A WIND TURBINE
(73) RWE Renewables GmbH
(72) BARTMINN, Daniel
(74) ir. W.J.J.M. Kempes
(31) 102015204695
(32) 16.03.2015
(33) Germany
(47) 29.09.2021

(51) E02F 9/00
(11) EP3757297
(21) EP19202576.5
(22) 10.10.2019
(54) WORKING VEHICLE
(73) Takeuchi MFG. Co., Ltd.
(72) TAKEUCHI, Shingo
NAKAMURA, Yuta
(74) ir. C.G.C. Veldman-Dijkers
(31) 2019121113
(32) 28.06.2019
(33) Japan
(47) 08.12.2021

(51) E02F 9/06
B63B 21/50
F15B 1/02
E02F 9/22
(11) EP3132097
(21) EP15726372.4
(22) 14.04.2015
(54) SPUD CARRIAGE BIASING SYSTEM, SPUD CARRIAGE, APPARATUS FOR ACCOMMODATING A WORKING SPUD OF A VESSEL, AND VESSEL
(73) Baggermaatschappij Boskalis B.V.
(72) KAMP, Cornelis Daniel

(74) ir. H.A. Witmans c.s.
(31) 2012637
(32) 16.04.2014
(33) Netherlands
(47) 15.09.2021

(51) E03B 7/04
E03C 1/04
E03C 1/044
(11) EP3366849
(21) EP18153563.4
(22) 26.01.2018
(54) HOUSEHOLD APPLIANCE FOR DISPENSING LIQUID WITH A DISCHARGE CONDUIT
(73) BSH Hausgeräte GmbH
(72) Englisch, Christian
Loser, Florian
Schneiderbauer, Gottfried
(31) 102017203109
(32) 27.02.2017
(33) Germany
(47) 24.11.2021

(51) E03D 1/00
E03D 9/08
(11) EP3722525
(21) EP20163166.0
(22) 13.03.2020
(54) HEATABLE CISTERN FOR AN INTELLIGENT TOILET
(73) Oceanwell (Xiamen) Industrial Co., Ltd.
(72) LIN, Fenglie
PENG, Dong
YU, Xingyi
CHEN, Shoushun
(74) J.M.H. Duyver lic.
(31) 201910253686
(32) 30.03.2019
(33) China
(47) 06.10.2021

(51) E04B 1/00
E04B 1/76
(11) EP3225759
(21) EP17160994.4
(22) 15.03.2017
(54) CONNECTION COMPONENT FOR THERMAL ISOLATION BETWEEN VERTICALLY CONNECTED BUILDING SECTIONS
(73) SCHÖCK BAUTEILE GmbH
(74) J.M.H. Duyver lic.
(31) 102016106032
(32) 01.04.2016
(33) Germany
(47) 01.12.2021

(51) E04B 2/86
(11) EP3626902
(21) EP19198785.8
(22) 20.09.2019
(54) COMPOSITE WALL STRUCTURE FOR A BUILDING
(73) Thesing, Manuel
Kleppe, Martin
Müller, Helmut
Böhm, Peter
(72) Kleppe, Martin
(74) ir. J.C. Volmer c.s.
(31) 102019103215
102018123346
(32) 08.02.2019
21.09.2018
(33) Germany
Germany
(47) 29.09.2021

(51) E04B 5/36
E04B 1/90
E04C 2/288
(11) EP2989265
(21) EP14722596.5
(22) 23.04.2014
(54) INSULATING PANELS MADE OF STONE WOOL, AND CONCRETE WALL PROVIDED WITH SUCH PANELS
(73) Rockwool International A/S
(72) CARDONA, Frédéric-Jérôme
GUILLON, Michel
BARAUD, Ismaël
LE MADEC, Bruce
GUYOTON, Gilles
(74) ir. W.J.J.M. Kempes
(31) 1353730
(32) 24.04.2013
(33) France
(47) 01.12.2021

(51) E04C 2/12
E04C 2/38
E04C 2/34
(11) EP3779084
(21) EP19191591.7
(22) 13.08.2019
(54) WOODEN PANEL ELEMENT AND USE OF DECORATIVE PANELS
(73) SWISS KRONO Tec AG
(72) Schönnebeck, Andre
BRAUN, Roger
(74) ir. J.C. Volmer c.s.
(47) 06.10.2021

(51) E04C 5/18
E04C 5/065
B21F 27/20
(11) EP2942448
(21) EP14193221.0
(22) 14.11.2014
(54) SPACER FOR CONCRETE REINFORCEMENTS
(73) Intersig NV
(72) Van Den Broecke, Hugo
Ocket, Piet
(74) dr. A. Ellens c.s.
(31) 201400333
(32) 08.05.2014
(33) Belgium
(47) 13.10.2021

(51) E04F 15/02
E04F 15/18
(11) EP3548677
(21) EP18724152.6
(22) 26.04.2018
(54) METHOD FOR RENOVATING AND RECONSTRUCTING WET ROOMS
(73) WEDI GmbH
(72) WEDI, Stephan
(74) ir. F.A. Geurts c.s.
(31) 102017109075
(32) 27.04.2017
(33) Germany
(47) 29.09.2021

(51) E04G 5/14
E04G 1/15
E04G 7/30
E04G 7/34
E04G 1/06
(11) EP3775433
(21) EP19717426.1
(22) 05.04.2019
(54) CONNECTION ARRANGEMENT
(73) Wilhelm Layher Verwaltungs-GmbH
(74) ir. H.A. Witmans c.s.
(31) 102018114244
(32) 14.06.2018
(33) Germany
(47) 03.11.2021

(51) E04G 11/36
E04G 11/48
E04G 11/50
E04G 25/00
(11) EP3228777
(21) EP16164395.2
(22) 08.04.2016
(54) SUPPORTING HEAD FOR CONNECTING TO AN END OF A SUPPORTING ELEMENT FOR A FORMWORK BEAM
(73) DOKA GmbH
(74) dr. W.A.H.M. Van Borm
(47) 13.10.2021

(51) E04H 1/02
E04H 14/00
B60J 5/04
(11) EP3722540
(21) EP19191710.3
(22) 14.08.2019
(54) CONNECTION SYSTEM FOR HOUSE AND VEHICLE
(73) HYUNDAI MOTOR COMPANY
Kia Corporation
(72) HWANG, Jin Ho
LEE, Sang Heon
CHA, Dong Eun
(74) mr. ir. J. van Breda c.s.
(31) 20190041805
(32) 10.04.2019
(33) Korea (Republic)
(47) 01.12.2021

(51) E04H 6/02
E04D 13/064
E04D 13/072
(11) EP3656952
(21) EP19210740.7
(22) 21.11.2019
(54) CARPORT TYPE SHELTER
(73) Iparlux S.à.r.l.
(74) ir. H.A. Witmans c.s.
(31) 101010
(32) 21.11.2018
(33) Luxembourg
(47) 06.10.2021

(51) E04H 15/06
E04H 15/20
B60P 3/34
(11) EP3403877
(21) EP18450003.1
(22) 08.05.2018

(54) TRAILER
(73) b-turtle GmbH
(72) Rammer, Gernot
(74) mr. ir. J. van Breda c.s.
(31) 2022017
(32) 15.05.2017
(33) Austria
(47) 22.09.2021

(51) E04H 15/06
E04H 15/48
E04H 15/64
E04H 15/00
B60P 3/34
(11) EP3684991
(21) EP19833035.9
(22) 27.03.2019
(54) ROOF-TOP TENT FOR VEHICLE
(73) iKamper Co., Ltd.
(72) PARK, Soon Gyu
(74) J.M.H. Duyver lic.
(31) 20180081316
(32) 12.07.2018
(33) Korea (Republic)
(47) 06.10.2021

(51) E06B 3/46
(11) EP3660254
(21) EP19212473.3
(22) 29.11.2019
(54) AUTOMATIC DOOR SYSTEM, ESPECIALLY IN THE FORM OF A SLIDING DOOR OR A TELESCOPIC SLIDING DOOR, AND A BUILDING COMPRISING SUCH AN AUTOMATIC DOOR SYSTEM
(73) Agtatec AG
(72) TSCHANZ, Peter
(74) ir. F.A. Geurts c.s.
(31) 202018106791 U
(32) 29.11.2018
(33) Germany
(47) 22.12.2021

(51) E06B 7/14
(11) EP3411554
(21) EP17704381.7
(22) 26.01.2017
(54) FRAME FOR A WINDOW OR DOOR
(73) Reynaers Aluminium, naamloze vennootschap
(72) RASKER, Erik Joris R
(31) 201605086
(32) 03.02.2016
(33) Belgium
(47) 17.11.2021

(51) E06B 7/21
E06B 7/215
E06B 7/23
E06B 3/46
(11) EP3452680
(21) EP16720153.2
(22) 04.05.2016
(54) SEALING DEVICE
(73) ASSA ABLOY (Schweiz) AG
(72) DINTHEER, Andreas
(74) ir. J.C. Volmer c.s.
(47) 10.11.2021

(51) E06B 7/215
(11) EP3284899
(21) EP17178820.1
(22) 29.06.2017
(54) SEAL WITH TWO MODULES COMPRISING A SCISSOR MECHANISM
(73) Athmer oHG
(72) Ludwig, Maico
Kowski, Julian
(74) J.M.H. Duyver lic.
(31) 16193809
16193807
16184708
(32) 13.10.2016
13.10.2016
18.08.2016
(33) European Patent Office (EPO)
European Patent Office (EPO)
European Patent Office (EPO)
(47) 10.11.2021

(51) E06B 9/42
E06B 9/50
E06B 9/58
E06B 9/174
E04F 10/06
(11) EP3656965
(21) EP19207779.0
(22) 07.11.2019
(54) FABRIC SUNBLIND SYSTEM FOR CURTAIN WALL CONSTRUCTIONS
(73) Renson Sunprotection Screens NV
(72) Vanhoutte, Steven Rita André
Gilbert, Peter Albert
Schoenaers, Geert Jan Ivo
(74) dr. E.M.F. Eulaers
(31) 201805810
(32) 20.11.2018
(33) Belgium
(47) 06.10.2021

(51) E06B 9/52
(11) EP3596296
(21) EP18808475.0
(22) 26.02.2018
(54) AUTONOMOUS ANTI-MOSQUITO NET SYSTEM FOR A FIXED LOWER GUIDE
(73) Papadopoulos, Argyrios
(72) Papadopoulos, Argyrios
(74) ir. F.A. Geurts c.s.
(47) 13.10.2021

(51) E06B 9/72
E06B 9/171
H02K 11/33
H02K 5/22
H02K 15/14
(11) EP3695085
(21) EP18792859.3
(22) 09.10.2018
(54) TUBULAR MOTOR AND HOME AUTOMATION INSTALLATION COMPRISING THIS MOTOR
(73) Somfy Activites SA
(72) MEYNET, Emilie
DOCHE, Florian
SONZINI, Marc
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 1759467
(32) 10.10.2017
(33) France
(47) 27.10.2021

(51) E06C 1/36
E06C 7/18
E06C 7/16
(11) EP3596297
(21) EP18711503.5
(22) 06.03.2018
(54) TRENCH SHORING WITH A LADDER SYSTEM
(73) Klaus Stewering GmbH & Co. Kg Bauunternehmung
(72) HEITKAMP, Theo
SCHMEINCK, Bernd
(74) ir. C.G.C. Veldman-Dijkers
(31) 102017105567
(32) 15.03.2017
(33) Germany
(47) 15.12.2021

(51) E21B 19/16
(11) EP3592937
(21) EP17899383.8
(22) 07.03.2017
(54) POWER TONG
(73) Frank's International, LLC
(72) YUVAMITRA, Kirkrai
SMITH, Logan
BEGNAUD, Brian
ARCENEAUX, Scott
(74) ir. C.G.C. Veldman-Dijkers
(47) 01.12.2021

(51) E21B 19/16
E21B 23/04
E21B 21/00
(11) EP3516157
(21) EP16921162.0
(22) 16.12.2016
(54) COMBINED CASING AND DRILL-PIPE FILL-UP, FLOW-BACK AND CIRCULATION TOOL
(73) Frank's International, LLC
(72) BROWN, Dougal
(74) ir. C.G.C. Veldman-Dijkers
(31) 201615350375
(32) 14.11.2016
(33) United States of America
(47) 08.12.2021

(51) E21B 23/02
E21B 33/12
(11) EP3714129
(21) EP18779249.4
(22) 14.09.2018
(54) WELL TOOL DEVICE COMPRISING A RATCHET SYSTEM
(73) Interwell Norway AS
(72) HIORTH, Espen
STORMO, Terje
(74) ir. J.C. Volmer c.s.
(31) 20171858
(32) 21.11.2017
(33) Norway
(47) 27.10.2021

(51) E21B 33/06
E21B 33/12
(11) EP3680448
(21) EP20150951.0
(22) 09.01.2020
(54) IMPROVED HANG OFF RAM PREVENTER
(73) Cameron International Corporation

(72) Armilli, Gabriele
Vargas, Florent
Rames, Teddy
(74) ir. A. Blokland c.s.
(31) 201916243989
(32) 09.01.2019
(33) United States of America
(47) 22.09.2021

(51) F01C 21/02
F04C 2/18
F04C 15/00
F01C 21/10
F04C 13/00
(11) EP3786416
(21) EP19194371.1
(22) 29.08.2019
(54) SELF-ALIGNING GEAR PUMP
(73) Wollmann, Thomas Michael
(72) Wollmann, Thomas Michael
(74) J.M.H. Duyver Iic.
(47) 29.09.2021

(51) F01K 25/10
(11) EP3695103
(21) EP18758943.7
(22) 01.08.2018
(54) REFRIGERATION DEVICE AND METHOD OF REFRIGERATION
(73) L'AIR LIQUIDE, Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude
(72) DURAND, Fabien
(74) ir. W.J.J.M. Kempes
(31) 1701041
(32) 09.10.2017
(33) France
(47) 29.09.2021

(51) F01N 1/08
F01N 3/10
F01N 13/00
F01N 3/20
F01N 3/28
(11) EP3704360
(21) EP18795649.5
(22) 31.10.2018
(54) EXHAUST GAS SYSTEM FOR COMPACT AND EFFICIENT AFTERTREATMENT AND SOUND DAMPING OF THE EXHAUST GAS
(73) Niessing Anlagenbau GmbH
Hug Engineering GmbH
Fr. Lürssen Werft GmbH & Co. KG
(72) SPIEKER, Carsten
NIESSING, Thomas
HEMSING, Jürgen
SCHMIDT, Uwe
URBAN, Bernhard
GRAVERMANN, Andreas
LINDT, Mathias
(74) ir. J.C. Volmer c.s.
(31) 102017125619
(32) 02.11.2017
(33) Germany
(47) 06.10.2021

(51) F02B 23/06
F02F 3/26
(11) EP3486447
(21) EP18195591.5
(22) 20.09.2018
(54) PISTON, IN PARTICULAR FOR A HPDI-DIESEL GAS INTERNAL COMBUSTION ENGINE
(73) MAN Truck & Bus SE
(74) ir. A. Blokland c.s.
(31) 102017127291
(32) 20.11.2017
(33) Germany
(47) 03.11.2021

(51) F02D 41/26
F02D 41/28
H04L 12/413
F02D 41/38
(11) EP2957752
(21) EP14173117.4
(22) 19.06.2014
(54) Complementary device for the tuning of an internal combustion engine of a vehicle
(73) FR Team International S.A.
SpanCircle SCRI
(72) Robillard, François
Ancion, Frédéric
Wauthy, Jean-François
(74) ir. W.J.J.M. Kempes
(47) 20.10.2021

(51) F02M 21/02
F02M 21/04
F02M 31/00
F02M 31/02
F02M 31/04
F02M 31/12
(11) EP3670893
(21) EP19192122.0
(22) 16.08.2019
(54) A GAS ENGINE, ARRANGEMENT AND METHOD FOR OPERATING A GAS ENGINE WITH A WEAK GAS CONTAINING LESS THAN 20 VOL- % METHANE
(73) Green Gas Germany GmbH
(72) van Egeren, Dirk
Bestvater, Stefan
(74) mr. ir. J. van Breda c.s.
(31) 102018132469
(32) 17.12.2018
(33) Germany
(47) 29.09.2021

(51) F03D 5/00
(11) EP3224471
(21) EP15804212.7
(22) 27.11.2015
(54) A WINCH
(73) Kitemill A.S.
(72) HAMPTON, William
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201421060
(32) 27.11.2014
(33) United Kingdom
(47) 29.09.2021

(51) F03D 7/04
F03D 7/02
(11) EP3347593
(21) EP16760751.4
(22) 07.09.2016
(54) METHOD FOR OPERATING A WIND FARM
(73) Wobben Properties GmbH
(72) MÜLLER, Tim
DE BOER, Wolfgang
HARMS, Harro
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 102015114958
(32) 07.09.2015
(33) Germany
(47) 17.11.2021

(51) F03D 9/00
F03B 13/06
F03B 13/18
F03D 9/17
(11) EP3724491
(21) EP18839926.5
(22) 10.12.2018
(54) UNDERWATER ENERGY STORAGE SYSTEM
(73) RIJKSUNIVERSITEIT GRONINGEN
(72) JAYAWARDHANA, Bayu
VAN ROOIJ, Marijn
PRINS, Wouter, Adrianus
VAKIS, Antonios, Iacovou
(74) ir. H.A. Witmans c.s.
(31) 17206416
(32) 11.12.2017
(33) European Patent Office (EPO)
(47) 06.10.2021

(51) F03D 13/25
(11) EP3325801
(21) EP16785334.0
(22) 30.09.2016
(54) OFFSHORE WIND FARM
(73) aerodyn consulting Singapore pte ltd
(72) SIEGFRIEDSEN, Sönke
(74) ir. A. Blokland c.s.
(31) 102015121371
(32) 08.12.2015
(33) Germany
(47) 17.11.2021

(51) F04B 35/04
F04B 39/12
F04B 53/16
(11) EP3667084
(21) EP19216553.8
(22) 16.12.2019
(54) CONENCTION STRUCTURE FOR MOTOR OF AIR COMPRESSOR
(73) Chou, Cheng-Hsien
Chou, Wen-San
(72) Chou, Wen-San
Chou, Cheng-Hsien
(74) ir. M.B. Plaggenborg
(31) 107145367
(32) 14.12.2018
(33) Taiwan, Province of China
(47) 22.09.2021

(51) F04C 18/12
F04C 23/00
(11) EP2745015
(21) EP12745685.3
(22) 07.08.2012
(54) ROOTS PUMP
(73) Leybold GmbH
(72) BIRCH, Peter
DREIFERT, Thomas
JENTKINS, Robert
TUNNA, Clive
(74) ir. M.F.J.M. Ketelaars c.s.

(31) 202011104491 U
(32) 17.08.2011
(33) Germany
(47) 06.10.2021

(51) F04D 19/00
F04D 29/54
F04D 29/66
F24F 1/02
F24F 1/0029
(11) EP3452727
(21) EP17723836.7
(22) 03.05.2017
(54) INLET FOR AXIAL FAN
(73) Carrier Corporation
(72) DYGERT, Ryan K.
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201662369349 P
201662330963 P
201662330975 P
(32) 01.08.2016
03.05.2016
03.05.2016
(33) United States of America
United States of America
United States of America
(47) 29.09.2021

(51) F15B 15/18
B66C 13/02
(11) EP3453893
(21) EP17190129.1
(22) 08.09.2017
(54) ELECTROHYDRAULIC DEVICE, METHOD, AND MARINE VESSEL OR PLATFORM
(73) National Oilwell Varco Norway AS
(72) Borøy, Yngvar
Bergstøl, Geir Odd
Strand, Thor
(74) ir. A. Blokland c.s.
(47) 27.10.2021

(51) F16B 5/02
F16B 43/00
F16B 41/00
F16B 37/04
(11) EP3567264
(21) EP19172161.2
(22) 02.05.2019
(54) FASTENING SYSTEM
(73) fischerwerke GmbH & Co. KG
(72) Krumbeck, Markus
Schneider, Mattias
Klauser, Philipp
Hacker, Oliver
(74) ir. H.J.G. Lips c.s.
(31) 102018110924
(32) 07.05.2018
(33) Germany
(47) 01.12.2021

(51) F16C 17/26
F16C 17/10
B63B 21/50
B63B 35/44
(11) EP3532371
(21) EP18846230.3
(22) 24.07.2018
(54) REPLACEABLE ELEMENT ROLLER BEARING ASSEMBLY
(73) Sofec Inc.
(72) LINDBLADE, Stephen P.
FONTENOT, William Louis
(31) 201715678905
(32) 16.08.2017
(33) United States of America
(47) 27.10.2021

(51) F16C 32/04
H02K 7/09
(11) EP3542079
(21) EP17870870.7
(22) 16.11.2017
(54) THRUST ACTIVE MAGNETIC BEARING FOR SHAFT SLOW ROLL CONTROL
(73) Baker Hughes Holdings LLC
(72) FIORAVANTI, Duccio
NERI, Massimiliano, Ortiz
SELGA, Rosa, Castane
OSAMA, Mohamed
(74) ir. W.J.J.M. Kempes
(31) 201662423381 P
(32) 17.11.2016
(33) United States of America
(47) 29.09.2021

(51) F16C 35/077
F16C 19/52
F16C 27/06
F04D 29/059
F04D 29/42
(11) EP3754216
(21) EP20189534.9
(22) 06.04.2018
(54) BLOWER HOUSING PART WITH BEARING SUPPORT AND BLOWER
(73) ebm-papst Mulfingen GmbH & Co. KG
(72) HENNEGRIFF, Matthias
FUCHS, Michael
MÜLLER, Rainer
HÄFNER, Jochen
(74) ir. W.J.J.M. Kempes
(31) 102017112983
(32) 13.06.2017
(33) Germany
(47) 10.11.2021

(51) F16D 41/24
F16D 41/30
(11) EP3615826
(21) EP18726537.6
(22) 26.04.2018
(54) CLUTCH SYSTEM FOR A TORQUE TRANSMISSION
(73) ADVANCING TECHNOLOGIES B.V.
(72) VAN DRUTEN, Roëll Marie
VAN DEN BRAND, Johannes Gijsbertus Antonius
(74) ir. H.A. Witmans c.s.
(31) 2020191
2018802
(32) 28.12.2017
27.04.2017
(33) Netherlands
Netherlands
(47) 22.09.2021

(51) F16D 65/847
F16D 65/00
(11) EP3812607
(21) EP19853269.9
(22) 10.09.2019
(54) HEAT DISSIPATION TYPE CAR CALIPER COVER
(73) Zhang, Jianping
(72) Zhang, Jianping
(74) dr. A. Krebs
(31) 201910786535
(32) 23.08.2019
(33) China
(47) 08.12.2021

(51) F16H 3/00
F16H 57/04
(11) EP3743641
(21) EP18702171.2
(22) 22.01.2018
(54) A DEVICE FOR CONTROLLING LUBRICATION IN A STEPPED TRANSMISSION COMPRISING A SPLITTER SECTION
(73) VOLVO TRUCK CORPORATION
(72) HEDMAN, Anders
(74) ir. M.F.J.M. Ketelaars c.s.
(47) 17.11.2021

(51) F16H 61/4017
(11) EP3628895
(21) EP19199615.6
(22) 25.09.2019
(54) HYDROSTATIC DRIVE FOR A MOTOR VEHICLE
(73) MAN Truck & Bus SE
(74) ir. A. Blokland c.s.
(31) 102018124017
(32) 28.09.2018
(33) Germany
(47) 03.11.2021

(51) F16K 1/226
F16K 5/06
(11) EP3611408
(21) EP18188958.5
(22) 14.08.2018
(54) VALVE ASSEMBLY
(73) Schoeller Allibert GmbH
(72) CRUIMING, Eddy
(74) J.M.H. Duyver lic.
(47) 20.10.2021

(51) F16K 11/20
F16K 27/04
E03C 1/04
(11) EP3759383
(21) EP19710113.2
(22) 01.03.2019
(54) METHOD OF MANUFACTURING A TAP BODY
(73) Greg Rowe Limited
(72) ROWE, Gregory Norman
(74) ir. W.J.J.M. Kempes
(31) 201803403
(32) 02.03.2018
(33) United Kingdom
(47) 10.11.2021

(51) F16K 35/06
E05B 65/00
E05B 73/00
E05B 67/00
E05B 5/00
E05B 67/38
(11) EP3523560
(21) EP17885275.2

(22) 11.07.2017
(54) CABLE LOCKOUT ASSEMBLY
(73) Loto Safety Products DMCC
(72) BHANPURAWALA, Yusufi Fakhruddin
LAI, Qiyang
SHAHPURWALA, Qaid Zohar Zakiuddin
(74) ir. W.J.J.M. Kempes
(31) 201641043505
(32) 20.12.2016
(33) India
(47) 22.09.2021

(51) F16K 47/04
F16K 47/08
F24F 11/74
F24F 110/30
F24F 13/24
F24F 13/06
F24F 13/10
(11) EP3513130
(21) EP17777278.7
(22) 02.10.2017
(54) SUPPLY AIR DEVICE FOR CONTROLLING SUPPLY AIR FLOW
(73) Lindinvent AB
(72) LINDBORG, Herman
(74) ir. W.J.J.M. Kempes
(31) 16192177
(32) 04.10.2016
(33) European Patent Office (EPO)
(47) 01.12.2021

(51) F16L 11/11
F16L 11/12
F16L 11/15
(11) EP3667143
(21) EP19204250.5
(22) 21.10.2019
(54) COMPOSITE PIPE FOR AIR CONDITIONING AND VENTILATION TECHNOLOGY
(73) Hegler, Ralph Peter
(72) Hegler, Ralph Peter
(74) ir. J.C. Volmer c.s.
(31) 102018221508
(32) 12.12.2018
(33) Germany
(47) 15.12.2021

(51) F16L 11/11
F16L 27/111
F16L 51/02
F16L 55/033
(11) EP3567290
(21) EP19173081.1
(22) 07.05.2019
(54) MONITORING SYSTEM FOR MONITORING THE OPERATING STATES OF A MOVABLE COMPONENT
(73) Witzenmann GmbH
(72) Marx, Michael
Weber, Matthias
Rothfuß, Daniel
Poschmann, Markus
Seckner, Marc
Kämpfe, Andreas
Kunkis, Marius
(74) J.M.H. Duyver lic.
(31) 102018111024
102018111019
102018111020
(32) 08.05.2018
08.05.2018
08.05.2018
(33) Germany
Germany
Germany
(47) 27.10.2021

(51) F16L 15/00
F16L 19/00
F16B 33/02
F16B 7/06
F16B 7/18
(11) EP3529525
(21) EP17794829.6
(22) 18.10.2017
(54) SYSTEM HAVING PRESSURIZED FLUID FLOWING THERETHROUGH COMPRISING A COUPLING NUT
(73) Carrier Corporation
(72) PENDEN, Karl Fredrik
(74) J.M.H. Duyver lic.
(31) 201662409823 P
(32) 18.10.2016
(33) United States of America
(47) 01.12.2021

(51) F16L 23/00
(11) EP3479002
(21) EP17749107.3
(22) 28.06.2017
(54) METHOD FOR JOINING PIPE PIECES
(73) agru Kunststofftechnik Gesellschaft m.b.H.
(72) LUEGHAMER, Albert
GRUBER, Erich
(74) J.M.H. Duyver lic.
(31) 505832016
(32) 29.06.2016
(33) Austria
(47) 22.09.2021

(51) F16L 55/165
B32B 5/02
B32B 5/22
B32B 5/26
B32B 7/14
B32B 25/14
B32B 27/08
B32B 27/12
B32B 27/30
B32B 27/32
B32B 27/34
B32B 27/36
B29C 63/06
B32B 7/05
B32B 1/08
B32B 25/10
B32B 25/04
B32B 25/08
(11) EP3006805
(21) EP15188733.8
(22) 07.10.2015
(54) HOSE LINER FOR SEWER REHABILITATION
(73) Buergofol GmbH
(72) Stark, Kurt
Schleicher, Franz
(74) dr. A. Krebs
(31) 102014114627
(32) 08.10.2014
(33) Germany
(47) 22.09.2021

(51) F16L 55/46
B08B 9/055
F16L 101/12
(11) EP3676527
(21) EP18773091.6
(22) 30.08.2018
(54) SUBSEA PIG LAUNCHERS
(73) Subsea 7 Norway AS
(72) STANGELAND, Øivind
SUPHELLEN, Karl Erik
(74) ir. H.Th. van den Heuvel c.s.
(31) 201713991
(32) 31.08.2017
(33) United Kingdom
(47) 29.09.2021

(51) F16L 59/02
F16L 59/04
F16L 59/10
F16L 59/08
(11) EP3446021
(21) EP17713040.8
(22) 29.03.2017
(54) A METHOD TO PRODUCE AN INSULATING PIPE SECTION FOR PIPEWORKS AND A PIPE SECTION
(73) Rockwool International A/S
(72) REICHINGER, Stephan-Ferdinand
(74) ir. W.J.J.M. Kempes
(31) 16165829
(32) 18.04.2016
(33) European Patent Office (EPO)
(47) 20.10.2021

(51) F21S 8/00
F21V 23/06
H01R 12/71
F21S 4/28
F21V 21/005
H01R 13/506
H01R 31/06
H01R 33/76
(11) EP3575672
(21) EP18805738.4
(22) 08.05.2018
(54) ELECTRICAL CONNECTION MODULE AND LAMP ASSEMBLY
(73) Opple Lighting Co., Ltd.
Suzhou Opple Lighting Co., Ltd.
(72) SHI, Xiufeng
LI, Jianguo
(74) J.M.H. Duyver lic.
(31) 201720586549 U
201710375113
(32) 24.05.2017
24.05.2017
(33) China
China
(47) 27.10.2021

(51) F21V 21/35
F21S 8/00
F21V 23/06
F21V 23/02
F21V 21/096
F21S 2/00
(11) EP3495726
(21) EP18210597.3
(22) 05.12.2018

(54) LIGHTING APPARATUS, POWER-SUPPLY APPARATUS, COUPLING APPARATUS AND LIGHTING SYSTEM
(73) A.A.G. Stucchi S.r.l.
(72) STUCCHI, Aristide
(74) J.M.H. Duyver lic.
(31) 201700141232
(32) 06.12.2017
(33) Italy
(47) 20.10.2021

(51) F23K 3/00
F23K 3/02
B65G 53/46
(11) EP3726134
(21) EP20164104.0
(22) 19.03.2020
(54) CELLULAR WHEEL SLUICE FOR METERING COAL DUST FOR A BURNER
(73) Benninghoven Zweigniederlassung der Wirtgen Mineral Technologies GmbH
(74) ir. J.C. Volmer c.s.
(31) 102019205732
(32) 18.04.2019
(33) Germany
(47) 03.11.2021

(51) F23N 5/12
F23N 1/02
(11) EP3690318
(21) EP20150310.9
(22) 06.01.2020
(54) METHOD FOR REGULATING A FUEL-AIR MIXTURE IN A HEATING DEVICE
(73) Vaillant GmbH
(72) Schwarz, Christian
Tomczak, Heinz-Jörg
Funke, Tobias
Hucke, Stefan
Grabe, Jochen
(74) J.M.H. Duyver lic.
(31) 102019119186
102019102128
(32) 16.07.2019
29.01.2019
(33) Germany
Germany
(47) 24.11.2021

(51) F24F 3/16
F24F 11/30
F24F 110/50
F24F 3/167
F24F 11/62
B01L 1/04
(11) EP3475625
(21) EP17734432.2
(22) 23.06.2017
(54) CLEANROOM CONTROL SYSTEM AND METHOD
(73) Energy Efficiency Consultancy Group Limited
(72) CHEN, Shuji
WALLACE, Robert
(74) ir. C.G.C. Veldman-Dijkers
(31) 201611107
(32) 27.06.2016
(33) United Kingdom
(47) 13.10.2021

(51) F24F 11/00
A62C 2/12
A62C 2/24
F24F 13/14
(11) EP3469268
(21) EP17731660.1
(22) 09.06.2017
(54) METHODS AND MEANS FOR ENERGY-EFFICIENT VENTILATION SYSTEMS FOR BUILDINGS
(73) Abrahamssons Hantverk-&Fastighetsservice AB
(72) ABRAHAMSSON, Michael
(74) ir. W.J.J.M. Kempes
(31) 1650832
(32) 14.06.2016
(33) Sweden
(47) 06.10.2021

(51) F24H 4/04
F24D 3/18
F24D 11/02
F24D 17/02
F24D 19/10
(11) EP3540327
(21) EP19155301.5
(22) 04.02.2019
(54) HEAT PUMP ASSEMBLY
(73) Viessmann Climate Solutions SE
(72) Bätzel, Jörg
(74) ir. F.A. Geurts c.s.
(31) 102018102670
(32) 07.02.2018
(33) Germany
(47) 20.10.2021

(51) F25B 21/00
F25B 21/02
(11) EP3320280
(21) EP16738510.3
(22) 06.07.2016
(54) CONTROL SYSTEM
(73) Evonetix Limited
(72) FITZPATRICK, Catherine Rose
HAYES, Matthew James
(74) ir. W.J.J.M. Kempes
(31) 201511802
(32) 06.07.2015
(33) United Kingdom
(47) 03.11.2021

(51) F25B 41/22
F25B 49/02
F25B 1/00
(11) EP3724561
(21) EP18821925.7
(22) 03.12.2018
(54) AIR CONDITIONING SYSTEM WITH COOLING CAPACITY MODULATION VIA FIXED PUMP OPERATION AND VARIABLE CONDENSER FAN OPERATION
(73) Vertiv Corporation
(72) LIN, Zhiyong
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201816186648
201762596955 P
(32) 12.11.2018
11.12.2017
(33) United States of America
United States of America
(47) 27.10.2021

(51) F25D 31/00
A23K 50/42
A23K 40/00
(11) EP3169504
(21) EP15744974.5
(22) 17.07.2015
(54) PRODUCT COOLING APPARATUSES
(73) Société des Produits Nestlé S.A.
(72) CAHOON, William
SCHAAF, John
AMSINGER, Daniel
ORR, Sam
OKIC, Enes
(74) ir. F.A. Geurts c.s.
(31) 201462026409 P
(32) 18.07.2014
(33) United States of America
(47) 27.10.2021

(51) F25J 3/02
(11) EP2847529
(21) EP13721624.8
(22) 29.04.2013
(54) PROCESS AND APPARATUS FOR THE SEPARATION BY CRYOGENIC DISTILLATION OF A MIXTURE OF METHANE, CARBON MONOXIDE AND HYDROGEN
(73) L'Air Liquide Société Anonyme pour l'Etude et l'Exploitation des Procédés Georges Claude
(72) PRASAD, Bhadri
MARTY, Pascal
BRIGLIA, Alain
BROCHERIOU, Emmanuelle
(74) ir. W.J.J.M. Kempes
(31) 12305503
(32) 07.05.2012
(33) European Patent Office (EPO)
(47) 13.10.2021

(51) F27B 11/00
F27B 19/02
(11) EP3714227
(21) EP18812237.8
(22) 06.11.2018
(54) HEAT TREATMENT INSTALLATION FOR PRODUCING INDUSTRIAL PRODUCTS
(73) Ceritherm
(72) ZAMPARO, Giovanni
(74) ir. W.J.J.M. Kempes
(31) 1760986
(32) 21.11.2017
(33) France
(47) 13.10.2021

(51) F27D 9/00
F27B 1/24
F27B 3/24
F27D 1/12
F27D 1/00
(11) EP3538830
(21) EP17870445.8
(22) 10.11.2017
(54) COOLING PANEL COUPLED TO AN INNER WALL OF A STEEL MAKING FURNACE AND ASSOCIATED STEEL MAKING FURNACE
(73) Amerifab, Inc.
(72) MANASEK, Richard J.

(74) dr. A. Krebs
(31) 201662419995 P
(32) 10.11.2016
(33) United States of America
(47) 27.10.2021

(51) F28D 20/00
(11) EP3680595
(21) EP19216572.8
(22) 16.12.2019
(54) METHOD AND DEVICE FOR LOADING AND DISCHARGING A THERMOCHEMICAL HEAT STORAGE MEDIUM AND SCREW CONVEYOR FOR LOADING THE THERMOCHEMICAL HEAT STORAGE MEDIUM
(73) Elmess Thermosystemtechnik GmbH & Co. KG
(72) Dreyer, Hartmut
(74) ir. W.J.J.M. Kempes
(31) 102018132467
(32) 17.12.2018
(33) Germany
(47) 13.10.2021

(51) F28F 1/32
F24F 1/48
F24F 11/41
F25B 39/02
F25B 47/02
F28D 1/047
F28F 13/18
F28F 17/00
F28F 19/02
(11) EP3594603
(21) EP18776425.3
(22) 30.03.2018
(54) HEAT EXCHANGER AND AIR-CONDITIONING DEVICE
(73) Daikin Industries, Ltd.
(72) NAGANO, Tomohiro
MONDAL, Deb Kumar
YAMAGUCHI, Hiroki
FUJINO, Hirokazu
YOSHIDA, Kaori
FUJINAMI, Isao
(74) ir. W.J.J.M. Kempes
(31) 2017072637
(32) 31.03.2017
(33) Japan
(47) 08.12.2021

(51) G01B 11/06
G03G 15/00
G03G 15/04
G03G 15/32
G01N 21/21
G01N 21/55
G01N 21/57
G01N 33/34
G03G 15/043
(11) EP2643680
(21) EP11842775.6
(22) 25.11.2011
(54) OPTICAL SENSOR AND IMAGE FORMING APPARATUS
(73) Ricoh Company Ltd.
(72) OHBA, Yoshihiro
HOSHI, Fumikazu
SUGAWARA, Satoru
ISHII, Toshihiro
(74) ir. H.A. Witmans c.s.
(31) 2011171101
2011158527
2011056234
2010263079
(32) 04.08.2011
20.07.2011
15.03.2011
26.11.2010
(33) Japan
Japan
Japan
Japan
(47) 17.11.2021

(51) G01B 11/26
G01N 21/17
(11) EP3428573
(21) EP17763235.3
(22) 07.03.2017
(54) MEASURING DEVICE, OBSERVING DEVICE AND MEASURING METHOD
(73) Hamamatsu Photonics K.K.
(74) ir. H.A. Witmans c.s.
(31) 2016045442
(32) 09.03.2016
(33) Japan
(47) 03.11.2021

(51) G01B 17/02
G01N 29/265
C21B 7/10
C21B 7/24
F27B 1/28
F27D 19/00
(11) EP3511675
(21) EP17848967.0
(22) 06.07.2017
(54) DEVICE FOR MEASURING THICKNESS OF A STAVE OF A BLAST FURNACE
(73) Posco
(72) KIM, Kwan-Tae
JANG, Soo-Ho
YOO, Byeong-Soo
SHIN, Nam-Ho
CHOI, Sang-Woo
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 20160114508
(32) 06.09.2016
(33) Korea (Republic)
(47) 20.10.2021

(51) G01C 5/06
G01C 21/16
G01C 21/20
G01S 5/02
(11) EP3693699
(21) EP19155424.5
(22) 05.02.2019
(54) DETERMINING OF ABSOLUTE ALTITUDES OF FLOORS OF A STRUCTURE
(73) HERE Global B.V.
(72) WIROLA, Lauri Aarne Johannes
NURMINEN, Henri Jaakko Julius
IVANOV, Pavel
(74) ir. A. Blokland c.s.
(47) 22.12.2021

(51) G01C 21/20
(11) EP3460400
(21) EP17306252.2
(22) 22.09.2017
(54) IMPROVED LOCALIZATION OF A MOBILE DEVICE BASED ON IMAGE AND RADIO WORDS
(73) Softbank Robotics Europe
ARMINES
(72) FRES, Scarlett
JOLY, Cyril
NOWAKOWSKI, Mathieu
MOUTARDE, Fabien
GARCIA, Nicolas
(74) ir. H.A. Witmans c.s.
(47) 22.12.2021

(51) G01C 21/34
(11) EP3209970
(21) EP15784341.8
(22) 20.10.2015
(54) ALTERNATIVE ROUTES
(73) TomTom Navigation B.V.
(72) KÖNIG, Felix Godafoss
ZHELTOV, Stanislav
SANTIAGO NUNEZ, Jose F.
BREEN, William
SCHICKINGER, Thomas Gerhard Helmut
MARTE, Michael
WESSELIUS, Kees
(74) J.M.H. Duyver Iic.
(31) 201418573
201418571
201418569
(32) 20.10.2014
20.10.2014
20.10.2014
(33) United Kingdom
United Kingdom
United Kingdom
(47) 24.11.2021

(51) G01C 22/00
G01C 21/20
G06K 9/00
H04W 4/029
H04W 4/02
(11) EP3105546
(21) EP14704790.6
(22) 14.02.2014
(54) POSITION TRACKING FOR A BEARER OF MOBILE DEVICE
(73) Fraunhofer Portugal Research
(72) RIBEIRO, David
CARNEIRO, Susana
MONTEIRO, Manuel
ROCHA, Tiago
FERREIRA, Carlos
OLIVEIRA, Renato
AGUIAR, Bruno
ELIAS, Dirk
COSTA LIMA, André
CASTRO, Lourenço
SILVA, Joana
GUIMARÃES, Vânia
(74) ir. F.A. Geurts c.s.
(47) 22.09.2021

(51) G01D 4/00
(11) EP3495780
(21) EP17205468.6

(22) 05.12.2017
(54) UTILITY USAGE CLASSIFICATION
(73) Fortum OYJ
(74) J.M.H. Duyver lic.
(47) 03.11.2021

(51) G01F 1/66
G01F 15/00
(11) EP2909587
(21) EP13846885.5
(22) 18.10.2013
(54) ULTRASONIC FLOW METERING SYSTEM WITH AN UPSTREAM PRESSURE TRANSDUCER
(73) Daniel Measurement and Control, Inc.
(72) RAMSAY, Lawson Hamilton
(74) ir. H.A. Witmans c.s.
(31) 201313928670
201261716164 P
(32) 27.06.2013
19.10.2012
(33) United States of America
United States of America
(47) 29.09.2021

(51) G01F 1/84
(11) EP2591319
(21) EP10747973.5
(22) 09.07.2010
(54) A VIBRATING METER INCLUDING A DAMPED METER COMPONENT
(73) Micro Motion, Inc.
(72) WERBACH, Christopher, A.
LANHAM, Gregory, Treat
(74) ir. M.F.J.M. Ketelaars c.s.
(47) 24.11.2021

(51) G01G 13/24
G01G 11/08
G01G 19/24
(11) EP3204737
(21) EP15848382.6
(22) 08.09.2015
(54) WEIGHING AND FEEDING SYSTEM
(73) Ampacet Corporation
(72) MARGALIT, Eli
SOSNIK, Dov Bernardo
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 23501614
(32) 06.10.2014
(33) Israel
(47) 20.10.2021

(51) G01J 3/02
G01J 3/10
G01J 3/44
(11) EP2656027
(21) EP11815478.0
(22) 20.12.2011
(54) DEVICE AND METHOD FOR OBSERVING AND FOR MEASURING RAMAN SCATTERING
(73) HORIBA France SAS
(74) J.M.H. Duyver lic.
(31) 1060898
(32) 21.12.2010
(33) France
(47) 03.11.2021

(51) G01K 3/00
G01M 99/00
(11) EP3623782
(21) EP18194512.2
(22) 14.09.2018
(54) ELECTRICITY METER THERMAL PERFORMANCE MONITORING
(73) Landis+Gyr AG
(72) DAVIS, Ian Jackson
(74) ir. W.J.J.M. Kempes
(47) 10.11.2021

(51) G01M 9/04
(11) EP3469328
(21) EP17728900.6
(22) 13.06.2017
(54) WIND GENERATION MEANS AND WIND TEST FACILITY COMPRISING THE SAME
(73) Haute ecole du paysage, d'ingenierie et d'architecture de geneve
(72) CATRY, Guillaume
NOCA, Flavio
(74) dr. A. Ellens c.s.
(31) 16174482
(32) 14.06.2016
(33) European Patent Office (EPO)
(47) 29.09.2021

(51) G01N 1/02
B65D 65/22
B65D 65/24
(11) EP3123141
(21) EP15768205.5
(22) 20.03.2015
(54) DEVICE FOR SURFACE SAMPLING
(73) Expertus Kemiteknik AB
(72) SJÖLÉN, Lennart
(74) J.M.H. Duyver lic.
(31) 1450338
(32) 24.03.2014
(33) Sweden
(47) 24.11.2021

(51) G01N 1/30
G01N 33/483
G02B 21/34
G01N 27/447
(11) EP3548864
(21) EP17808919.9
(22) 05.12.2017
(54) METHOD FOR PREPARING TRANSPARENT BIOLOGICAL SAMPLES FOR LIGHT MICROSCOPY ANALYSIS
(73) Georg-August-Universität Göttingen Stiftung Öffentlichen Rechts, Universitätsmedizin
(72) WOUTERS-BUNT, Fred S.
VENTZKI, Robert
(74) dr. ir. G.J.C. Verdijck c.s.
(31) 102016123458
(32) 05.12.2016
(33) Germany
(47) 22.09.2021

(51) G01N 1/42
A01N 1/02
F25D 3/10
G01N 1/28
(11) EP3486633
(21) EP18211873.7
(22) 11.12.2015
(54) PREPARATION OF CRYOGENIC SAMPLE FOR CHARGED-PARTICLE MICROSCOPY
(73) FEI Company
(72) Rémigy, Hervé-William
(74) dr. W.A.H.M. Van Borm
(47) 24.11.2021

(51) G01N 21/41
(11) EP3729058
(21) EP18808255.6
(22) 19.11.2018
(54) DEFLECTION-TYPE REFRACTOMETER WITH EXTENDED MEASUREMENT RANGE
(73) Polymer Characterization, S.A.
(72) MONRABAL BAS, Benjamín
ORTÍN SEBASTIÁN, Alberto
(74) ir. W.J.J.M. Kempes
(31) 201831017
(32) 18.10.2018
(33) Spain
(47) 22.09.2021

(51) G01N 21/64
B01L 3/00
G02B 21/00
G02B 21/16
G02B 21/32
C12Q 1/6816
(11) EP3004848
(21) EP14731835.6
(22) 02.06.2014
(54) METHOD AND SYSTEM FOR IMAGING A MOLECULAR STRAND
(73) LUMICKS DSM Holding B.V.
(72) HELLER, Iddo
HELL, Stefan Walter
WUITE, Gijs Jan Lodewijk
SITTERS, Gerrit
CANDELLI, Andrea
PETERMAN, Erwin Johannes Gerard
(74) ir. H.A. Witmans c.s.
(31) 2011087
13170323
(32) 03.07.2013
03.06.2013
(33) Netherlands
European Patent Office (EPO)
(47) 27.10.2021

(51) G01N 21/64
G01N 21/77
C12Q 1/6869
C12Q 1/6874
G01N 33/58
(11) EP3298389
(21) EP16729108.7
(22) 20.05.2016
(54) METHOD OF DETERMINING THE SEQUENCE OF A NUCLEIC ACID USING TIME RESOLVED LUMINESCENCE
(73) Quantum-Si Incorporated
(72) HUANG, Haidong
ROTHBERG, Jonathan, M.
SHI, Xinghua
REED, Brian
LACKEY, Jeremy
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201514821688

201562164464 P
201562164482 P
201562164485 P
201562164506 P
(32) 07.08.2015
20.05.2015
20.05.2015
20.05.2015
20.05.2015
(33) United States of America
United States of America
United States of America
United States of America
United States of America
(47) 29.09.2021

(51) G01N 21/956
G01N 21/95
G01N 21/88
G02B 21/00
G02B 27/10
G02B 21/06
G02B 27/09
G02B 27/42
G02F 1/33
G02B 26/10
G02B 27/12
(11) EP3295477
(21) EP16793208.6
(22) 04.05.2016
(54) SYSTEMS AND METHODS FOR OBLIQUE INCIDENCE SCANNING WITH 2D ARRAY OF SPOTS
(73) KLA - Tencor Corporation
(72) CHURIN, Yevgeniy
SULLIVAN, Jamie
(74) ir. W.J.J.M. Kempes
(31) 201514982747
201562159173 P
(32) 29.12.2015
08.05.2015
(33) United States of America
United States of America
(47) 15.12.2021

(51) G01N 23/20058
G01N 23/2055
(11) EP3835768
(21) EP19216196.6
(22) 13.12.2019
(54) METHOD FOR IMPROVING KIKUCHI DIFFRACTION PATTERNS
(73) Bruker Nano GmbH
(72) SCHWAGER, Thomas
GORAN, Daniel Radu
(74) ir. M.F.J.M. Ketelaars c.s.
(47) 27.10.2021

(51) G01N 29/22
G01N 29/04
G01N 29/30
G01N 29/34
G01N 29/24
G01N 29/28
G01S 15/88
G01S 15/02
G10K 11/02
(11) EP3559654
(21) EP17884897.4
(22) 22.12.2017
(54) INSPECTION ROBOT
(73) Gecko Robotics, Inc.
(72) LOW, Kevin
MOORE, Joshua
BRYNER, Edward
GU, Yizhu
LOOSARARIAN, Mark
MACKENZIE, Logan
JOSLIN, Todd
CHOU, Alvin
MILLER, Ian
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201762596737 P
201662438788 P
(32) 08.12.2017
23.12.2016
(33) United States of America
United States of America
(47) 27.10.2021

(51) G01N 30/14
B01D 19/00
(11) EP3669184
(21) EP18759877.6
(22) 13.08.2018
(54) DEVICE FOR PREPARING A LIQUID SAMPLE FOR A GAS CHROMATOGRAPH
(73) Trasis S.A.
(72) JANUS, Alexander
GRUGEL-ENDRESS, Reinhard
(74) ir. W.J.J.M. Kempes
(31) 102017118531
(32) 14.08.2017
(33) Germany
(47) 06.10.2021

(51) G01N 33/18
G01N 15/10
G01N 1/20
(11) EP3247998
(21) EP16701282.2
(22) 21.01.2016
(54) MICROFLUIDIC PARTICLE ANALYSIS DEVICE
(73) SBT Instruments A/S
(72) BERTELSEN, Christian, Vinther
SKANDS, Gustav, Erik
(31) 15151970
(32) 21.01.2015
(33) European Patent Office (EPO)
(47) 22.09.2021

(51) G01N 33/542
G01N 33/566
G01N 33/53
G01N 33/543
(11) EP3356822
(21) EP16856992.9
(22) 30.09.2016
(54) ANALYTE DETECTION WITH MULTIPLE SUBSTRATES
(73) TGR Biosciences Pty Ltd.
(72) CROUCH, Michael, Francis
SHEEHAN, Antony, James
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201562237522 P
201562236676 P
(32) 05.10.2015
02.10.2015
(33) United States of America
United States of America
(47) 27.10.2021

(51) G01N 33/574
(11) EP3583425
(21) EP18705153.7
(22) 19.02.2018
(54) METHOD FOR THE DIAGNOSIS OF BREAST CANCER
(73) Panka Blood Test GmbH
(72) PANTEL, Klaus
BARTKOWIAK, Kai
(74) ir. F.A. Geurts c.s.
(31) 17157020
(32) 20.02.2017
(33) European Patent Office (EPO)
(47) 06.10.2021

(51) G01N 35/04
G01N 35/00
B65G 51/04
(11) EP3483612
(21) EP18205254.8
(22) 08.11.2018
(54) IDENTIFYING, SORTING AND MANIPULATING TEST TUBES
(73) Graniten Group AB
(72) OLSSON, Jan-Olof
ERIKSSON, Karl Olof
(31) 1751394
(32) 10.11.2017
(33) Sweden
(47) 22.09.2021

(51) G01N 35/08
G01N 33/48
G01N 35/00
B01L 3/00
(11) EP2473857
(21) EP10814281.1
(22) 25.08.2010
(54) MICROFLUIDIC INTERFACE
(73) Corsolutions, LLC
(72) VAN PELT, Colleen, K.
CORSO, Thomas
(74) dr. A. Krebs
(31) 238778 P
(32) 01.09.2009
(33) United States of America
(47) 29.09.2021

(51) G01P 3/48
H02P 7/00
(11) EP2339742
(21) EP10196368.4
(22) 22.12.2010
(54) Method and device for positioning an output member of an electric motor drive, in particular for an item of furniture
(73) DewertOkin Technology Group Co., Ltd.
(72) Hille, Armin
(74) ir. A. Ferguson
(31) 102009059267
(32) 22.12.2009
(33) Germany
(47) 06.10.2021

(51) G01Q 10/06
G01Q 70/02
(11) EP3164720
(21) EP15738770.5
(22) 03.07.2015

(54) SYSTEM AND METHOD OF PERFORMING SCANNING PROBE MICROSCOPY ON A SUBSTRATE SURFACE
(73) Nederlandse Organisatie voor toegepast-natuurwetenschappelijk onderzoek TNO
(72) VAN DEN DOOL, Teunis Cornelis
CROWCOMBE, William Edward
KRAMER, Geerten Frans Ijsbrand
WINTERS, Jasper
SADEGHIAN MARNANI, Hamed
(74) ir. H.A. Witmans c.s.
(31) 14175830
(32) 04.07.2014
(33) European Patent Office (EPO)
(47) 29.09.2021

(51) G01S 5/00
G01S 13/76
H04W 64/00
G01S 13/931
(11) EP3643126
(21) EP18731476.0
(22) 22.06.2018
(54) ANTENNA REFERENCE SIGNALS FOR DISTANCE MEASUREMENTS
(73) IPCom GmbH & Co. KG
(74) J.M.H. Duyver lic.
(31) 17177410
(32) 22.06.2017
(33) European Patent Office (EPO)
(47) 03.11.2021

(51) G01S 5/02
G01S 19/48
G01S 19/39
(11) EP3682262
(21) EP17777497.3
(22) 14.09.2017
(54) TECHNIQUE FOR VERIFYING A GEOGRAPHICAL POSITION OF A UAV
(73) Telefonaktiebolaget LM Ericsson (publ)
(74) ir. A. Blokland c.s.
(47) 03.11.2021

(51) G01S 7/28
H02M 3/15
H02M 11/00
H02M 1/15
H02M 3/156
(11) EP3097431
(21) EP14880332.3
(22) 23.01.2014
(54) RADAR SYSTEM WITH A SWITCHING MODE DC/DC POWER CONVERTER FOR DELIVERING A DIRECT CURRENT TO A PULSE RADAR UNIT
(73) Saab AB
(74) ir. M.F.J.M. Ketelaars c.s.
(47) 03.11.2021

(51) G01S 7/292
G01S 7/41
(11) EP3044606
(21) EP14766770.3
(22) 09.09.2014
(54) ANOMALOUS PROPAGATION DETECTION
(73) BAE Systems PLC
(72) EDWARDS, Philip Trevelyan
PARLE, John Alexander
CLARK, Marcus Edward
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201316288
13275212
(32) 13.09.2013
13.09.2013
(33) United Kingdom
European Patent Office (EPO)
(47) 10.11.2021

(51) G01S 7/52
G01S 7/524
G10K 11/34
(11) EP3465260
(21) EP17727310.9
(22) 24.05.2017
(54) MODEL-BASED PROTECTION ALGORITHMS
(73) BAE Systems PLC
(72) MOORE, Gary, Roy
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201609729
(32) 03.06.2016
(33) United Kingdom
(47) 17.11.2021

(51) G01V 99/00
(11) EP2880471
(21) EP13758939.6
(22) 06.08.2013
(54) METHOD TO DETERMINE CHANNELS TRAJECTORIES
(73) TOTAL SE
(72) MASSONNAT, Gérard
(74) J.M.H. Duyver lic.
(31) 1257649
(32) 06.08.2012
(33) France
(47) 29.09.2021

(51) G01W 1/10
G01W 1/00
(11) EP3413099
(21) EP18176576.9
(22) 07.06.2018
(54) METHOD AND APPARATUS FOR PROVIDING A WEATHER VOLATILITY INDEX
(73) HERE Global B.V.
(72) AVERBUCH, Alex
STENNETH, Leon
(74) drs. C.M.A. Quintelier
(31) 201715618927
(32) 09.06.2017
(33) United States of America
(47) 20.10.2021

(51) G02B 1/14
A61L 27/50
(11) EP3486694
(21) EP18161218.5
(22) 12.03.2018
(54) OPHTHALMIC LENS AND MANUFACTURING METHOD THEREOF
(73) BenQ Materials Corporation
(72) Jan, Fan-Dan
(74) ir. J.D. de Zeeuw
(31) 106139853
(32) 17.11.2017
(33) Taiwan, Province of China
(47) 06.10.2021

(51) G02B 5/20
C04B 35/50
C09K 11/80
H01L 33/50
C09K 11/77
C04B 35/01
C04B 35/44
C04B 35/64
C04B 35/626
(11) EP3534193
(21) EP17865959.5
(22) 20.10.2017
(54) OPTICAL WAVELENGTH CONVERSION MEMBER AND LIGHT-EMITTING DEVICE
(73) NGK SPARK PLUG CO., LTD.
(72) TAKAKU, Shohei
KATSU, Yusuke
SHIMURA, Yuki
MITSUOKA, Takeshi
ITO, Tsuneyuki
MOTEKI, Jun
(74) ir. F.A. Geurts c.s.
(31) 2017148393
2017100204
2017015653
2016215303
2016211843
(32) 31.07.2017
19.05.2017
31.01.2017
02.11.2016
28.10.2016
(33) Japan
Japan
Japan
Japan
Japan
(47) 22.12.2021

(51) G02B 6/36
G01S 7/481
G01S 17/95
G02B 6/32
G02B 7/00
(11) EP2625557
(21) EP11779795.1
(22) 04.10.2011
(54) OPTICAL HEAD FOR ATMOSPHERIC MEASUREMENT, RELATED SYSTEMS AND MANUFACTURING METHODS
(73) Leosphere
(72) LALEU, Nicolas
PARMENTIER, Rémy
(74) ir. W.J.J.M. Kempes
(31) 1058032
(32) 04.10.2010
(33) France
(47) 29.09.2021

(51) G02B 6/42
H04B 10/079
H04J 14/02
(11) EP3741054
(21) EP20720238.3
(22) 25.03.2020
(54) MULTI-FIBER INTERFACE AUTOMATIC POWER REDUCTION SYSTEM AND METHOD
(73) Ciena Corporation
(72) CHEDORE, Paul

(74) J.M.H. Duyver lic.
(31) 201916710139
201916364749
(32) 11.12.2019
26.03.2019
(33) United States of America
United States of America
(47) 01.12.2021

(51) G02B 6/44
(11) EP3528023
(21) EP18020064.4
(22) 15.02.2018
(54) SPLICE MODULE WITH PATCH UNIT
(73) ZweiCom-Hauff GmbH
(74) dr. A. Krebs
(47) 10.11.2021

(51) G02B 15/02
G02B 17/06
G02B 27/30
(11) EP3081972
(21) EP16157597.2
(22) 26.02.2016
(54) REFLECTIVE BEAM FORMER
(73) asphericon GmbH
(72) Moritz, Jens
Kiontke, Sven
Fuchs, Ulrike
(74) ir. J.C. Volmer c.s.
(31) 102015105673
(32) 14.04.2015
(33) Germany
(47) 06.10.2021

(51) G02B 27/01
(11) EP3114526
(21) EP15711362.2
(22) 05.03.2015
(54) WEARABLE 3D AUGMENTED REALITY DISPLAY
(73) Arizona Board of Regents on Behalf of the University of Arizona
University of Connecticut
(72) JAVIDI, Bahram, Dr.
HUA, Hong
(74) ir. F.A. Geurts c.s.
(31) 201461948226 P
(32) 05.03.2014
(33) United States of America
(47) 20.10.2021

(51) G02B 27/01
(11) EP3114527
(21) EP15711363.0
(22) 05.03.2015
(54) WEARABLE 3D AUGMENTED REALITY DISPLAY WITH VARIABLE FOCUS AND/OR OBJECT RECOGNITION
(73) University of Connecticut
Arizona Board of Regents on Behalf of the University of Arizona
(72) JAVIDI, Bahram
HUA, Hong
(74) ir. F.A. Geurts c.s.
(31) 201461948226 P
(32) 05.03.2014
(33) United States of America
(47) 20.10.2021

(51) G02B 27/01
H04N 13/31
H04N 13/363
H04N 13/346
(11) EP3596533
(21) EP18712989.5
(22) 12.03.2018
(54) DEVICE FOR THE DEMATERIALISED AERIAL PROJECTION OF A DIGITAL IMAGE OR A SEQUENCE OF DIGITAL IMAGES, IN PARTICULAR AN AUTO-STEREOSCOPIC IMAGE OR A SEQUENCE OF AUTO-STEREOSCOPIC IMAGES
(73) Alioscopy
(72) ALLIO, Pierre
(74) ir. W.J.J.M. Kempes
(31) 1752245
(32) 17.03.2017
(33) France
(47) 22.09.2021

(51) G02F 1/1524
(11) EP3677962
(21) EP19206961.5
(22) 01.09.2015
(54) INTEGRATED DEPOSITION SYSTEM AND METHOD FOR FABRICATING AN ELECTROCHROMIC STACK
(73) View, Inc.
(72) PRADHAN, Anshu
KAILASAM, Sridhar Karthik
GILLASPIE, Dane
(74) dr. W.A.H.M. Van Borm
(31) 201462046864 P
(32) 05.09.2014
(33) United States of America
(47) 10.11.2021

(51) G02F 1/35
(11) EP3396447
(21) EP17177757.6
(22) 25.06.2017
(54) METHOD AND SETUP TO GENERATE TERAHERTZ RADIATION
(73) Pécsi Tudományegyetem
(72) LOMBOSI, Csaba Márió
FÜLÖP, József András
TOKODI, Levente
PÁLFALVI, László
ALMÁSI, Gábor
HEBLING, János
(74) J.M.H. Duyver lic.
(47) 06.10.2021

(51) G03F 7/20
G03F 9/00
G01Q 10/06
G01Q 30/02
G01Q 70/06
G01Q 20/02
G01Q 60/24
(11) EP3374828
(21) EP16809198.1
(22) 10.11.2016
(54) ALIGNMENT SYSTEM AND METHOD
(73) Nederlandse Organisatie voor toegepast-natuurwetenschappelijk onderzoek TNO
(72) SADEGHIAN MARNANI, Hamed
(74) ir. H.A. Witmans c.s.
(31) 15194135
(32) 11.11.2015
(33) European Patent Office (EPO)
(47) 06.10.2021

(51) G03G 15/00
(11) EP2458444
(21) EP11189791.4
(22) 18.11.2011
(54) Optical sensor and image forming apparatus
(73) Ricoh Company Ltd.
(72) Ohba, Yoshihiro
Hoshi, Fumikazu
(74) ir. H.A. Witmans c.s.
(31) 2011167948
2010263093
(32) 01.08.2011
26.11.2010
(33) Japan
Japan
(47) 17.11.2021

(51) G03G 15/04
G03G 15/043
(11) EP2592483
(21) EP12184257.9
(22) 13.09.2012
(54) Writing device, image forming apparatus, and writing method
(73) Ricoh Company, Ltd.
(72) Komura, Taro
Ishikawa, Naoichi
Iwasaki, Takeshi
Ogawa, Yuya
(74) ir. H.A. Witmans c.s.
(31) 2012191982
2011202400
(32) 31.08.2012
15.09.2011
(33) Japan
Japan
(47) 17.11.2021

(51) G03G 21/18
(11) EP3270229
(21) EP17184209.9
(22) 06.09.2013
(54) PROCESS CARTRIDGE
(73) Canon Kabushiki Kaisha
(72) NISHIYA, Satoshi
KASHIIDE, Yosuke
YOSHIMURA, Akira
SATO, Masaaki
NOGUCHI, Tomio
KUBO, Yukio
(74) J.M.H. Duyver lic.
(31) 2013145903
2012196872
(32) 11.07.2013
07.09.2012
(33) Japan
Japan
(47) 10.11.2021

(51) G03G 21/18
(11) EP3270230
(21) EP17184218.0
(22) 06.09.2013
(54) IMAGE FORMING APPARATUS, AND PROCESS CARTRIDGE
(73) Canon Kabushiki Kaisha
(72) KASHIIDE, Yosuke
NOGUCHI, Tomio
SATO, Masaaki

YOSHIMURA, Akira
KUBO, Yukio
NISHIYA, Satoshi
(74) J.M.H. Duyver lic.
(31) 2013145903
2012196872
(32) 11.07.2013
07.09.2012
(33) Japan
Japan
(47) 10.11.2021

(51) G03H 1/02
G03H 1/22
(11) EP3686692
(21) EP19219325.8
(22) 23.12.2019
(54) HOLOGRAPHIC PROJECTOR
(73) Dualitas Ltd.
(72) Cooney, Rory
(74) J.M.H. Duyver lic.
(31) 201901025
(32) 25.01.2019
(33) United Kingdom
(47) 24.11.2021

(51) G05B 19/042
G05B 9/02
F16L 55/10
(11) EP3667442
(21) EP20154318.8
(22) 24.03.2016
(54) ASSEMBLY COMPRISING AN EMERGENCY RELEASE SYSTEM
(73) Trelleborg Westbury Limited
(72) Fairman, Julian
Webber, Anthony
(74) drs. C.M.A. Quintelier
(31) 201505203
(32) 26.03.2015
(33) United Kingdom
(47) 01.12.2021

(51) G05D 1/00
B64C 39/02
B64D 47/08
G03B 15/00
(11) EP3398019
(21) EP16891942.1
(22) 29.02.2016
(54) METHODS AND SYSTEMS FOR MOVEMENT CONTROL OF FLYING DEVICES
(73) SZ DJI Technology Co., Ltd.
(72) YU, Junfeng
ZHOU, You
FENG, Xuyang
QIAN, Jie
ZHAO, Cong
(74) ir. F.A. Geurts c.s.
(47) 13.10.2021

(51) G05D 1/02
G01C 21/20
(11) EP3449214
(21) EP17811131.6
(22) 09.06.2017
(54) MOTION PLANNING FOR AUTONOMOUS VEHICLES AND RECONFIGURABLE MOTION PLANNING PROCESSORS
(73) Duke University
Brown University
(72) FLOYD-JONES, William
SORIN, Daniel J.
KONIDARIS, George D.
MURRAY, Sean
(74) ir. W.J.J.M. Kempes
(31) 201762451816 P
201662348230 P
(32) 30.01.2017
10.06.2016
(33) United States of America
United States of America
(47) 15.12.2021

(51) G05F 1/67
H01L 31/042
H01L 31/02
H01L 27/142
H02M 3/335
H02J 1/00
H02J 4/00
H02S 40/30
(11) EP2188844
(21) EP08850862.7
(22) 10.11.2008
(54) METHOD AND SYSTEM FOR CONNECTING SOLAR CELLS OR SLICES IN A PANEL SYSTEM
(73) Tigo Energy, Inc.
(72) KIKINIS, Dan
(74) J.M.H. Duyver lic.
(31) 253868
309107 P
(32) 17.10.2008
14.11.2007
(33) United States of America
United States of America
(47) 01.12.2021

(51) G06F 1/16
C09J 5/06
(11) EP3557372
(21) EP19169917.2
(22) 17.04.2019
(54) ELECTRONIC DEVICE INCLUDING MULTIPLE FIXING MEMBERS TO FIX BIOMETRIC SENSOR TO DISPLAY
(73) Samsung Electronics Co., Ltd.
(72) JUNG, Daekwang
SIM, Bokyung
RHEE, Bongjae
KIM, Joohan
LEE, Yongwon
JO, Jeonggyu
KIM, Jinman
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 20180099211
20180044283
(32) 24.08.2018
17.04.2018
(33) Korea (Republic)
Korea (Republic)
(47) 20.10.2021

(51) G06F 1/16
G02F 1/133
(11) EP3441845
(21) EP18176255.0
(22) 06.06.2018
(54) DISPLAY PANEL AND ELECTRONIC DEVICE HAVING THE SAME
(73) Samsung Display Co., Ltd.
(72) Choi, Wonwoo
Sung, Wooyong
Cho, Wonje
Yoon, Seungho
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 20170102611
201815922745
(32) 11.08.2017
15.03.2018
(33) Korea (Republic)
United States of America
(47) 27.10.2021

(51) G06F 1/16
H04M 1/02
(11) EP3607413
(21) EP18718984.0
(22) 28.03.2018
(54) HINGED DEVICE
(73) Microsoft Technology Licensing, LLC
(72) SIDDIQUI, Kabir
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201715656776
201762482035 P
(32) 21.07.2017
05.04.2017
(33) United States of America
United States of America
(47) 17.11.2021

(51) G06F 1/32
G06F 3/01
G06F 1/16
(11) EP3089726
(21) EP15751666.7
(22) 19.02.2015
(54) BODY POSITION OPTIMIZATION AND BIO-SIGNAL FEEDBACK FOR SMART WEARABLE DEVICES
(73) Sony Group Corporation
Sony Corporation of America
(72) COPERE, Ludovic
DACOSTA, Behram
BHAT, Udupi Ramanath
KALACHEV, Anton
ELGORT, Vladimir
TANAKA, Nobuo
WONG, John
DANIELSON, Jacelyn
KATAOKA, Masaki
(74) ir. W.J.J.M. Kempes
(31) 201461943837 P
(32) 24.02.2014
(33) United States of America
(47) 15.12.2021

(51) G06F 1/329
G06F 9/48
G06F 9/46
(11) EP2756386
(21) EP11872386.5
(22) 11.10.2011
(54) MANAGING PROCESSES WITHIN SUSPEND STATES AND EXECUTION STATES
(73) Microsoft Technology Licensing, LLC
(72) PULAPAKA, Hari
KISHAN, Arun
SINGH, Neeraj Kumar
(74) J.M.H. Duyver lic.

(31) 201113230698
(32) 12.09.2011
(33) United States of America
(47) 24.11.2021

(51) G06F 3/01
(11) EP3571569
(21) EP17700829.9
(22) 19.01.2017
(54) IMPROVED TRANSMISSION OF HAPTIC INPUT
(73) Telefonaktiebolaget LM Ericsson (PUBL)
(72) ANDERSSON, Lars
ARAÚJO, José
LINDOFF, Bengt
(74) ir. A. Blokland c.s.
(47) 01.12.2021

(51) G06F 3/041
(11) EP3316089
(21) EP17197018.9
(22) 18.10.2017
(54) ELECTRONIC DEVICE
(73) Samsung Display Co., Ltd.
(72) Son, Mi-hee
Yoo, Youngseok
Kim, Hyungchul
(74) drs. A.A. Jilderda
(31) 20160141421
(32) 27.10.2016
(33) Korea (Republic)
(47) 15.12.2021

(51) G06F 3/041
G06F 3/044
(11) EP3232303
(21) EP16207258.1
(22) 29.12.2016
(54) TOUCH SENSING METHOD, TOUCH SENSING CIRCUIT, AND TOUCH DISPLAY DEVICE
(73) LG Display Co., Ltd.
(72) JANG, Kyungjin
KWON, Youngho
KIM, KiYong
BYUN, SungUk
SHIN, MyungHo
HWANG, MinWoo
CHOI, YongWoo
PARK, JaeKyu
(74) ir. A.R. Aalbers
(31) 20160179269
20160046226
(32) 26.12.2016
15.04.2016
(33) Korea (Republic)
Korea (Republic)
(47) 13.10.2021

(51) G06F 3/041
G06F 3/044
(11) EP3291066
(21) EP17179240.1
(22) 03.07.2017
(54) DISPLAY DEVICE
(73) Samsung Display Co., Ltd.
(72) Son, Ho Seok
Cho, Jae Hyung
Ku, Ja Seung
Kim, Kwan Ho
Cho, Sung Yeon
Park, Jin Hee
Lee, Jang Doo
(74) drs. A.A. Jilderda
(31) 20160114617
(32) 06.09.2016
(33) Korea (Republic)
(47) 22.12.2021

(51) G06F 3/044
G06F 3/041
(11) EP3561650
(21) EP19170979.9
(22) 25.04.2019
(54) INPUT SENSING DEVICE AND DISPLAY DEVICE INCLUDING THE SAME
(73) Samsung Display Co., Ltd.
(72) Lee, Hyun Jae
Kim, Young-Sik
Kim, Hyung Chul
Kim, Chang Bum
Lee, In Nam
Kim, Mi Young
Kim, Sung Hwan
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 20180049172
(32) 27.04.2018
(33) Korea (Republic)
(47) 20.10.2021

(51) G06F 3/0481
G06F 3/0488
G06F 3/0484
(11) EP3678010
(21) EP19213025.0
(22) 15.03.2012
(54) MOBILE TERMINAL AND OBJECT CHANGE SUPPORT METHOD FOR THE SAME
(73) Samsung Electronics Co., Ltd.
(72) KIM, Yong Seok
SON, Kwang Sub
HEO, Nam Jo
LEE, Sang Yup
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 20110024763
(32) 21.03.2011
(33) Korea (Republic)
(47) 24.11.2021

(51) G06F 3/0488
G06F 1/16
G06F 3/0346
(11) EP3726363
(21) EP19212674.6
(22) 29.11.2019
(54) MOBILE DEVICE AND CONTROL METHOD THEREOF
(73) HTC Corporation
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201916388884
(32) 19.04.2019
(33) United States of America
(47) 03.11.2021

(51) G06F 3/0488
G06F 3/0482
G06F 3/0484
G06F 1/16
(11) EP3521994
(21) EP19159691.5
(22) 26.10.2010
(54) METHOD AND APPARATUS FOR REPLICATING PHYSICAL KEY FUNCTION WITH SOFT KEYS IN AN ELECTRONIC DEVICE
(73) Google LLC
(72) GUNAWAN, Suwinto
(74) dr. A. Krebs
(31) 62241809
(32) 19.11.2009
(33) United States of America
(47) 08.12.2021

(51) G06F 3/14
H04N 19/132
H04N 19/137
H04N 19/176
(11) EP2815379
(21) EP13748509.0
(22) 05.02.2013
(54) VIDEO DETECTION IN REMOTE DESKTOP PROTOCOLS
(73) Microsoft Technology Licensing, LLC
(72) ABDO, Nadim
WYNN, Tong L.
(74) J.M.H. Duyver lic.
(31) 201213396398
(32) 14.02.2012
(33) United States of America
(47) 24.11.2021

(51) G06F 8/34
H04L 12/24
(11) EP3467644
(21) EP18198392.5
(22) 03.10.2018
(54) SYSTEMS AND METHOD FOR SERVICE MAPPING
(73) ServiceNow, Inc.
(72) HASDAI, Netta
MAKOVSKY, Bnayahu
GATI, Ofer
(74) dr. W.A.H.M. Van Borm
(31) 201715814155
201762568087 P
(32) 15.11.2017
04.10.2017
(33) United States of America
United States of America
(47) 01.12.2021

(51) G06F 9/30
G06F 9/38
G06N 3/00
(11) EP3631623
(21) EP18725074.1
(22) 24.04.2018
(54) TENSOR PROCESSOR INSTRUCTION SET ARCHITECTURE
(73) Microsoft Technology Licensing, LLC
(72) FOWERS, Jeremy Halden
OVTCHAROV, Kalin
CHUNG, Eric Sen
LIU, Ming Gang
REINHARDT, Steven Karl
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201715604301
(32) 24.05.2017
(33) United States of America
(47) 17.11.2021

(51) G06F 9/451
G06F 9/455

G09G 5/395
(11) EP3385838
(21) EP18159474.8
(22) 01.03.2018
(54) APPARATUS AND METHOD FOR REMOTE DISPLAY AND CONTENT PROTECTION IN A VIRTUALIZED GRAPHICS PROCESSING ENVIRONMENT
(73) INTEL Corporation
(72) TANNER, Jason
KOKER, Altug
K, Pattabhiraman
RAY, Joydeep
VEMBU, Balaji
APPU, Abhishek R.
(74) ir. W.J.J.M. Kempes
(31) 201715482535
(32) 07.04.2017
(33) United States of America
(47) 10.11.2021

(51) G06F 9/455
G06F 21/10
G06F 21/53
H04L 9/08
G06F 21/12
H04L 9/32
(11) EP3538993
(21) EP17808245.9
(22) 07.11.2017
(54) SECURE KEY MANAGEMENT
(73) Microsoft Technology Licensing, LLC
(72) LANGE, Jonathan E.
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201715458627
201662421835 P
(32) 14.03.2017
14.11.2016
(33) United States of America
United States of America
(47) 01.12.2021

(51) G06F 11/07
G06F 11/36
(11) EP3623948
(21) EP19197424.5
(22) 14.09.2019
(54) METHOD AND SYSTEM FOR CODE ANALYSIS TO IDENTIFY CAUSES OF CODE SMELLS
(73) Tata Consultancy Services Limited
(72) SAHU, MONIKA
LODHA, SACHIN PREMSUKH
KUMAR, RAM
VIDHANI, KUMAR MANSUKHLAL
(74) dr. ir. G.J.C. Verdijck c.s.
(31) 201821034796
(32) 14.09.2018
(33) India
(47) 29.09.2021

(51) G06F 11/16
G06F 11/14
(11) EP2852896
(21) EP13734076.6
(22) 04.07.2013
(54) ARRANGEMENT HAVING A MICROPROCESSOR SYSTEM
(73) Siemens Mobility GmbH
(72) ECKELMANN-WENDT, Uwe
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 102012212304
(32) 13.07.2012
(33) Germany
(47) 29.09.2021

(51) G06F 11/36
(11) EP3549020
(21) EP17808502.3
(22) 05.12.2017
(54) SELF-DEBUGGING
(73) Nagravision SA
(72) ABRATH, Bert
VOLCKAERT, Stijn
DE SUTTER, Bjorn
(74) drs. W.H.P. Derks
(31) 16202259
(32) 05.12.2016
(33) European Patent Office (EPO)
(47) 13.10.2021

(51) G06F 12/0884
G06F 12/0862
G06F 12/0831
(11) EP3370156
(21) EP18165254.6
(22) 26.11.2015
(54) SPECULATIVE READS IN BUFFERED MEMORY
(73) Intel Corporation
(72) BLANKENSHIP, Robert G.
MORRIS, Brian S.
NALE, Bill
LIU, Yen-Cheng
(74) ir. W.J.J.M. Kempes
(31) 201414582121
(32) 23.12.2014
(33) United States of America
(47) 24.11.2021

(51) G06F 13/36
G06F 3/00
G06F 11/00
G06F 11/07
(11) EP3584711
(21) EP18754893.8
(22) 31.01.2018
(54) COMMUNICATION DEVICE, COMMUNICATION METHOD, PROGRAM, AND COMMUNICATION SYSTEM
(73) Sony Semiconductor Solutions Corporation
(72) HYAKUDAI Toshihisa
KOSHISAKA Naohiro
YOKOKAWA Takashi
TAKAHASHI Hiroo
(74) ir. W.J.J.M. Kempes
(31) 2017024940
(32) 14.02.2017
(33) Japan
(47) 24.11.2021

(51) G06F 16/28
G06F 8/60
(11) EP3640816
(21) EP19203289.4
(22) 15.10.2019
(54) IDENTIFYING APPLICATIONS WITH MACHINE LEARNING
(73) ServiceNow, Inc.
(72) ARON, Aviya
ERBLAT, Boris
TAL, Hail
SOLOMON, Bary
GARTY, Asaf
BITTERFELD, Robert
(74) dr. W.A.H.M. Van Borm
(31) 201816163204
(32) 17.10.2018
(33) United States of America
(47) 01.12.2021

(51) G06F 16/903
G06F 21/62
G06F 21/16
(11) EP3545449
(21) EP17804888.0
(22) 24.11.2017
(54) METHOD OF EXTRACTING DATA FROM A DATABASE WATERMARKED ACCORDING TO A REVERSIBLE WATERMARKING MECHANISM
(73) Institut Mines-Télécom
(74) J.M.H. Duyver lic.
(31) 1661520
(32) 25.11.2016
(33) France
(47) 03.11.2021

(51) G06F 17/16
G06F 16/22
G06F 16/28
G06N 20/00
(11) EP3343392
(21) EP17207532.7
(22) 14.12.2017
(54) HARDWARE ACCELERATOR ARCHITECTURE AND TEMPLATE FOR WEB-SCALE K-MEANS CLUSTERING
(73) INTEL Corporation
(72) MARR, Deborah
KRISHNAN, Srivatsan
SUBHASCHANDRA, Suchit
VENKATESH, Ganesh
NURVITADHI, Eriko
(74) ir. W.J.J.M. Kempes
(31) 201615396515
(32) 31.12.2016
(33) United States of America
(47) 10.11.2021

(51) G06F 21/12
G06F 21/54
H04L 9/32
G06F 21/55
G06F 21/16
(11) EP3391263
(21) EP16822402.0
(22) 14.12.2016
(54) SECURING WEBPAGES, WEBAPPS AND APPLICATIONS
(73) Irdeto B.V.
(72) EFTEKHARI ROOZBEHANI, Yaser
CAI, Yegui
GU, Yuan Xiang
GIDLEY, Benjamin Geoffrey
CHAMBERS, Catherine
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201522315
(32) 17.12.2015
(33) United Kingdom
(47) 27.10.2021

(51) G06F 21/12
H04L 12/24
G06F 8/61
G06F 9/445
(11) EP3586256
(21) EP18708533.7
(22) 20.02.2018
(54) REMOTE ADMINISTRATION OF INITIAL COMPUTER OPERATING SYSTEM SETUP OPTIONS
(73) Microsoft Technology Licensing, LLC
(72) BOSTANCI, Hakki, Tunc
SHEPARD, Marc
PURI, Namrata, Shankar
BARHUDARIAN, Anna
MANTRI, Siddharth
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201715444251
(32) 27.02.2017
(33) United States of America
(47) 17.11.2021

(51) G06F 21/32
G06F 21/62
G06F 21/72
G06F 21/79
(11) EP3308312
(21) EP16807981.2
(22) 09.05.2016
(54) SECURE BIOMETRIC DATA CAPTURE, PROCESSING AND MANAGEMENT
(73) Intel Corporation
(72) BALI, Niraj
ZAHAVI, David
JAYASANKARAN, Anoop K.
IOSAD, Gennadi
NAYAGAM, Vinod Gomathi
DWARAKANATH, Kumar N.
MOORE, Victoria C.
HASKEL, Asaf
(74) ir. W.J.J.M. Kempes
(31) 201514734710
(32) 09.06.2015
(33) United States of America
(47) 17.11.2021

(51) G06F 21/33
(11) EP2875464
(21) EP13745507.7
(22) 18.07.2013
(54) SYSTEMS AND METHODS OF USING A TEMPORARY PRIVATE KEY BETWEEN TWO DEVICES
(73) Google LLC
(72) SAXMAN, Paul
VOGEL, J., Leslie
(74) dr. A. Krebs
(31) 201213554928
(32) 20.07.2012
(33) United States of America
(47) 27.10.2021

(51) G06F 21/41
H04L 29/06
H04W 12/06
G06F 9/54
G06F 21/53
G06F 21/60
H04L 9/08
(11) EP3702946
(21) EP20171406.0
(22) 30.12.2015
(54) SHARED SECRET VAULT FOR APPLICATIONS WITH SINGLE SIGN ON
(73) Citrix Systems Inc.
(72) NORDSTROM, Ola
MOMCHILOV, Georgy
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201462098457 P
(32) 31.12.2014
(33) United States of America
(47) 20.10.2021

(51) G06F 21/53
G06F 9/451
(11) EP3701410
(21) EP17840541.1
(22) 25.10.2017
(54) METHOD FOR MANAGING AN ACCESS AND DISPLAY SERVICE OF CONFIDENTIAL INFORMATION AND DATA BY MEANS OF A VIRTUAL DESKTOP
(73) Boole Server S.R.L.
(72) PASTORE, Valerio
LEONE, Daniele
(74) dr. A. Krebs
(47) 15.09.2021

(51) G06F 21/57
G06F 21/60
G06F 13/28
(11) EP3805968
(21) EP20211698.4
(22) 20.06.2016
(54) TECHNOLOGIES FOR SECURE HARDWARE AND SOFTWARE ATTESTATION FOR TRUSTED I/O
(73) INTEL Corporation
(72) MCGOWAN, Steven B.
CHHABRA, Siddhartha
LAL, Reshma
PAPPACHAN, Pradeep M.
XING, Bin
SCARLATA, Vincent R.
(74) ir. W.J.J.M. Kempes
(31) 201514974960
201562198779 P
201562195148 P
201562194763 P
(32) 18.12.2015
30.07.2015
21.07.2015
20.07.2015
(33) United States of America
United States of America
United States of America
United States of America
(47) 17.11.2021

(51) G06F 21/74
G06F 21/82
H04L 29/06
H04L 29/08
(11) EP3314808
(21) EP16814992.0
(22) 27.05.2016
(54) BINDING A TRUSTED INPUT SESSION TO A TRUSTED OUTPUT SESSION
(73) Intel Corporation
(72) DEWAN, Prashant
CHHABRA, Siddhartha
LAL, Reshma
WARRIER, Ulhas S.
(74) ir. W.J.J.M. Kempes
(31) 201514752379
(32) 26.06.2015
(33) United States of America
(47) 24.11.2021

(51) G06F 30/13
G06F 30/392
(11) EP2895972
(21) EP13836900.4
(22) 20.03.2013
(54) METHOD FOR EFFICIENT DESIGNING AND OPERATING COOLING INFRASTRUCTURE IN A DATA CENTER
(73) Tata Consultancy Services Limited
(72) SINGH, Amarendra, K.
SINGH, Umesh
SIVASUBRAMANIAM, Anand
AMARNATH, Rohan
BHAGWAT, Harshad
(74) ir. H.A. Witmans c.s.
(31) 2643MU2012
(32) 12.09.2012
(33) India
(47) 15.09.2021

(51) G06K 5/02
(11) EP2795529
(21) EP11808650.3
(22) 23.12.2011
(54) METHOD AND SYSTEM FOR CHECKING THE PRESENCE OR THE LEGIBILITY OF PRODUCT INFORMATION
(73) Knauf Gips KG
(72) TKATSCHENKO, Olessja
ABLE, Peter
(74) dr. W.A.H.M. Van Borm
(47) 24.11.2021

(51) G06K 7/10
(11) EP3671528
(21) EP18213106.0
(22) 17.12.2018
(54) APPARATUS AND METHOD FOR READING A SPORTS TIMING TRANSPONDER
(73) race result AG
(72) Wuenschmann, Marco
Klohr, Nikias
(74) ir. H.A. Witmans c.s.
(47) 27.10.2021

(51) G06K 7/10
H04N 1/107
(11) EP3343429
(21) EP17207882.6
(22) 18.12.2017
(54) ILLUMINATOR FOR DPM SCANNER
(73) Hand Held Products, Inc.
(72) OUYANG, Yunxin
FENG, Chen
LI, Hui
REN, Jie
GILLET, Alain
(74) ir. W.J.J.M. Kempes
(31) 201611234022
(32) 28.12.2016

(33) China
(47) 10.11.2021

(51) G06K 9/00
G06F 21/32
(11) EP3482345
(21) EP18830326.7
(22) 01.09.2018
(54) IMPLEMENTATION OF BIOMETRIC AUTHENTICATION WITH DETECTION AND DISPLAY OF AN ERROR INDICATION
(73) Apple Inc.
(72) BEHZADI, Arian
YING, Charles H.
TYLER, William M.
YERKES, Giancarlo
BERNSTEIN, Jeffrey Traer
VAN OS, Marcel
VERWEIJ, Hugo
MARI, Pedro
DE VRIES, Nathan
MOHSENI, Daamun
PRESTON, Daniel Trent
FOSS, Christopher Patrick
GRIFFIN, Bradley W.
SHARMA, Praveen
MOUSSETTE, Camille
DRYER, Allison
IVE, Jonathan P.
DEVINE, Lynne
PAUL, Grant
PUGH, Chelsea E.
ANTON, Peter D.
MALIA, Joseph A.
LEMMENS, Cas
MOUILLESEAUX, Jean-Pierre M.
DYE, Alan C.
ABBASIAN, Reza
DASCOLA, Jonathan R.
(74) J.M.H. Duyver lic.
(31) PA201870370
PA201870371
PA201770715
PA201770714
PA201770713
PA201770712
201862679955 P
201815903456
201815894221
201762581025 P
201762557130 P
201762556413 P
PCT/US2018/015603
(32) 12.06.2018
12.06.2018
22.09.2017
22.09.2017
22.09.2017
22.09.2017
03.06.2018
23.02.2018
12.02.2018
02.11.2017
11.09.2017
09.09.2017
26.01.2018
(33) Denmark
Denmark
Denmark
Denmark
Denmark
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
World Intellectual Property Office (WIPO)
(47) 08.12.2021

(51) G06K 19/06
A47J 31/44
B65D 85/816
G06K 9/18
(11) EP3420497
(21) EP17705920.1
(22) 23.02.2017
(54) CODE AND CONTAINER OF SYSTEM FOR PREPARING A BEVERAGE OR FOODSTUFF
(73) Société des Produits Nestlé S.A.
(72) NOTH, André
(74) ir. F.A. Geurts c.s.
(31) 16156866
(32) 23.02.2016
(33) European Patent Office (EPO)
(47) 06.10.2021

(51) G06K 19/06
A47J 31/44
B65D 85/816
G06K 9/46
(11) EP3420498
(21) EP17705922.7
(22) 23.02.2017
(54) CODE AND CONTAINER OF SYSTEM FOR PREPARING A BEVERAGE OR FOODSTUFF
(73) Société des Produits Nestlé S.A.
(72) NOTH, André
(74) ir. F.A. Geurts c.s.
(31) 16156868
(32) 23.02.2016
(33) European Patent Office (EPO)
(47) 06.10.2021

(51) G06N 5/00
G06N 7/00
G06N 20/20
B61L 27/00
B61L 5/02
G06F 17/14
(11) EP3702238
(21) EP20157277.3
(22) 13.02.2020
(54) DIAGNOSTIC SYSTEM AND A METHOD OF DIAGNOSING FAULTS
(73) Thales Holdings UK Plc
(72) TICKEM, David
NEWMAN, Michael
SHAYLER, Daniel
(74) ir. H.A. Witmans c.s.
(31) 201902157
(32) 15.02.2019
(33) United Kingdom
(47) 13.10.2021

(51) G06N 7/00
G06N 20/00
G06F 16/2455
G06F 16/2458
G06F 16/25
G06F 16/26
(11) EP3217334
(21) EP17160100.8
(22) 09.03.2017
(54) SYSTEM AND METHOD FOR VISUAL BAYESIAN DATA FUSION
(73) Tata Consultancy Services Limited
(72) SINGH, Karamjit
GUPTA, Garima
AGARWAL, Puneet
PANERI, Kaushal Ashokbhai
SHROFF, Gautam
SEHGAL, Gunjan
SHARMA, Geetika
PANDEY, Aditeya
(74) dr. ir. G.J.C. Verdijck c.s.
(31) 201621008419
(32) 10.03.2016
(33) India
(47) 29.09.2021

(51) G06N 10/00
H03K 19/195
(11) EP3652682
(21) EP18745765.0
(22) 03.07.2018
(54) SYSTEM AND METHOD FOR QUBIT READOUT
(73) Northrop Grumman Systems Corporation
(72) PRZYBYSZ, Anthony Joseph
(74) ir. H.A. Witmans c.s.
(31) 201715648243
(32) 12.07.2017
(33) United States of America
(47) 01.12.2021

(51) G06Q 10/08
G06Q 50/28
H04W 4/02
(11) EP3257000
(21) EP15882273.4
(22) 28.12.2015
(54) ENHANCED DELIVERY MANAGEMENT METHODS, APPARATUS, AND SYSTEMS FOR A SHIPPED ITEM USING A MOBILE NODE-ENABLED LOGISTICS RECEPTACLE
(73) Fedex Corporate Services, Inc.
(72) SKAAKSRUD, Ole-Petter
(74) J.M.H. Duyver lic.
(31) 201562113923 P
(32) 09.02.2015
(33) United States of America
(47) 24.11.2021

(51) G06Q 20/34
G06Q 20/38
G06Q 20/40
(11) EP3168803
(21) EP16197843.2
(22) 08.11.2016
(54) METHOD FOR ENCRYPTING DATA OF PAYMENT MEANS, CORRESPONDING PAYMENT MEANS, SERVER AND PROGRAMS
(73) Ingenico Group
(72) GERAUD, Rémi
NACCACHE, David

KOUDOUSSI, Hiba
(74) ir. W.J.J.M. Kempes
(31) 1560772
(32) 10.11.2015
(33) France
(47) 13.10.2021

(51) G06T 5/00
G06T 5/50
(11) EP3679546
(21) EP18773873.7
(22) 30.08.2018
(54) IMAGE PROCESSING, IMAGE PROCESSING METHOD AND PROGRAM FOR IMAGE BLUR CORRECTION
(73) Sony Group Corporation
(72) UEMORI, Takeshi
OYAIZU, Hideki
ITO, Atsushi
SATOH, Ryuta
AOKI, Suguru
(74) ir. W.J.J.M. Kempes
(31) 2017170034
(32) 05.09.2017
(33) Japan
(47) 20.10.2021

(51) G06T 7/00
G06K 9/62
G06T 7/246
(11) EP3621028
(21) EP18193175.9
(22) 07.09.2018
(54) METHOD, DEVICE AND SYSTEM FOR DYNAMIC ANALYSIS FROM SEQUENCES OF VOLUMETRIC IMAGES
(73) 3mensio Medical Imaging B.V.
(72) de Vaan, Jan
Chatrou, Martijn
Heil, Peter
Witteveen, Arjen
(74) ir. W.J.J.M. Kempes
(47) 06.10.2021

(51) G06T 7/00
G06T 7/11
G06T 7/187
(11) EP3469551
(21) EP17751502.0
(22) 11.07.2017
(54) AUTOMATIC 3D BRAIN TUMOR SEGMENTATION AND CLASSIFICATION
(73) Sony Group Corporation
(72) LIU, Ming-Chang
CHOU, Chen-Rui
SONG, Bi
(74) ir. W.J.J.M. Kempes
(31) 201615218986
(32) 25.07.2016
(33) United States of America
(47) 08.12.2021

(51) G06T 7/73
G06T 19/00
A63F 13/211
A63F 13/212
A63F 13/213
A63F 13/25
A63F 13/428
A63F 13/5255
A63F 13/56
G06F 3/01
G06T 19/20
A63H 17/00
(11) EP3673462
(21) EP18917388.3
(22) 02.05.2018
(54) OPTICALLY SUPPORTED OBJECT NAVIGATION
(73) SZ DJI Technology Co., Ltd.
(72) KUANG, Zheng
KARATAYEV, Igor
(74) ir. F.A. Geurts c.s.
(47) 22.09.2021

(51) G07B 15/02
(11) EP2896018
(21) EP12758847.3
(22) 11.09.2012
(54) VIRTUAL PARKING ENFORCEMENT
(73) Telefonaktiebolaget LM Ericsson (publ)
(74) ir. A. Blokland c.s.
(47) 03.11.2021

(51) G07C 9/00
E05B 47/00
(11) EP3776499
(21) EP20718129.8
(22) 05.03.2020
(54) MULTIFUNCTIONAL AND MODULAR EMPTY BOX WITH EXCHANGEABLE ADAPTER LINER AND USE OF SUCH AN EMPTY BOX WITH ADAPTER LINER FOR INSTALLATION OF ADDITIONAL COMPONENTS IN WINDOWS AND DOORS
(73) Otten, Sarah
(72) KERSSEN, Clemens
OTTEN, Michael
(74) dr. W.A.H.M. Van Borm
(31) 102019001470
(32) 05.03.2019
(33) Germany
(47) 01.12.2021

(51) G07C 9/00
E05B 47/06
(11) EP3396641
(21) EP18166884.9
(22) 11.04.2018
(54) LOCKING SYSTEM
(73) Aug. Winkhaus GmbH & Co. KG
(72) Bickert, Peter
Plogmann, Timo
Brink, Volker
(74) dr. W.A.H.M. Van Borm
(31) 102017206927
(32) 25.04.2017
(33) Germany
(47) 10.11.2021

(51) G07F 7/10
H04L 9/00
G06K 19/07
G06F 21/60
G06F 21/79
G06Q 20/34
G06Q 20/40
H04L 9/08
(11) EP1880368
(21) EP06743545.3
(22) 11.05.2006
(54) IMPLEMENTATION OF AN INTEGRITY-PROTECTED SECURE STORAGE
(73) Nokia Technologies Oy
(72) ASOKAN, Nadarajah
EKBERG, Jan-Erik
PAATERO, Lauri
(74) dr. W.A.H.M. Van Borm
(31) 128676
(32) 13.05.2005
(33) United States of America
(47) 29.09.2021

(51) G09B 5/14
G09B 11/06
H04N 7/14
(11) EP3259747
(21) EP15804699.5
(22) 24.11.2015
(54) METHOD AND SYSTEM FOR EXCHANGING INFORMATION
(73) Gök, Metin
(72) Gök, Metin
(74) ir. H.A. Witmans c.s.
(31) 2152015
(32) 18.02.2015
(33) Switzerland
(47) 22.09.2021

(51) G09G 3/22
G06F 9/30
G09F 19/22
(11) EP2898500
(21) EP13838557.0
(22) 23.09.2013
(54) CONTROL OF FLICKER IN DISPLAY IMAGES USING LIGHT EMITTING ELEMENT ARRAYS AS VIEWED BY A VIEWER IN MOTION
(73) ADTRACKMEDIA INC.
(74) ir. F.A. Geurts c.s.
(31) 201361859906 P
201261704750 P
(32) 30.07.2013
24.09.2012
(33) United States of America
United States of America
(47) 03.11.2021

(51) G10K 11/00
G01F 1/66
G01F 23/296
G01F 15/18
(11) EP3213320
(21) EP15771079.9
(22) 25.09.2015
(54) ARRANGEMENT FOR TRANSMITTING AND/OR RECEIVING A USEFUL ULTRASOUND SIGNAL, AND ULTRASONIC FLOW METER
(73) Endress+Hauser Flowtec AG
(74) ir. W.J.J.M. Kempes
(31) 102014115592
(32) 27.10.2014
(33) Germany
(47) 03.11.2021

(51) G10L 15/20
G10L 15/22
(11) EP3709292
(21) EP20166332.5
(22) 14.07.2017

(54) VOICE DETECTION BY MULTIPLE DEVICES
(73) Sonos Inc.
(72) REILLY, Jonathan
BURLINGAME, Gregory
KADRI, Romi
LANG, Jonathan P.
BUTTS, Christopher
(74) dr. W.A.H.M. Van Borm
(31) 201615211748
(32) 15.07.2016
(33) United States of America
(47) 08.12.2021

(51) G10L 19/07
G10L 19/02
G10L 25/12
(11) EP3648103
(21) EP19216781.5
(22) 16.02.2015
(54) DECODING METHOD, DECODING APPARATUS, CORRESPONDING PROGRAM AND RECORDING MEDIUM
(73) NIPPON TELEGRAPH AND TELEPHONE CORPORATION
The University of Tokyo
(72) HARADA, Noboru
KAMAMOTO, Yutaka
MORIYA, Takehiro
KAMEOKA, Hirokazu
SUGIURA, Ryosuke
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 2014089895
(32) 24.04.2014
(33) Japan
(47) 20.10.2021

(51) G10L 19/18
G10L 19/02
G10L 19/028
G10L 19/04
G10L 19/24
G10L 21/038
(11) EP3522154
(21) EP19165957.2
(22) 24.07.2015
(54) AUDIO ENCODING AND DECODING USING A FREQUENCY DOMAIN PROCESSOR, A TIME DOMAIN PROCESSOR, AND A CROSS PROCESSOR FOR INITIALIZATION OF THE TIME DOMAIN PROCESSOR
(73) FRAUNHOFER-GESELLSCHAFT zur Förderung der angewandten Forschung e.V.
(72) Schubert, Benjamin
Schnell, Markus
Multrus, Markus
Ravelli, Emmanuel
Grill, Bernhard
Dietz, Martin
Fuchs, Guillaume
Neusinger, Matthias
Disch, Sascha
(74) ir. F.A. Geurts c.s.
(31) 14178819
(32) 28.07.2014
(33) European Patent Office (EPO)
(47) 20.10.2021

(51) G10L 21/0388
G10L 25/90
(11) EP3598447
(21) EP19171999.6
(22) 15.01.2010
(54) CROSS PRODUCT ENHANCED HARMONIC TRANSPOSITION
(73) Dolby International AB
(72) VILLEMOES, Lars
HEDELIN, Per
(74) J.M.H. Duyver lic.
(31) 14522309 P
(32) 16.01.2009
(33) United States of America
(47) 01.12.2021

(51) G16B 30/00
(11) EP3465503
(21) EP17730003.5
(22) 01.06.2017
(54) PULSE CALLER AND BASE CALLER
(73) Quantum-Si Incorporated
(72) ROTHBERG, Jonathan, M.
FIFE, Keith, G.
DAVEY, Mel
WENGER, Craig
REED, Brian
JIA, Jimmy
GYARFAS, Brett, J.
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201662343997 P
(32) 01.06.2016
(33) United States of America
(47) 29.09.2021

(51) G16H 40/67
G16H 40/63
G16H 50/20
(11) EP2992499
(21) EP13883466.8
(22) 30.04.2013
(54) PROCESS AND ARRANGEMENT FOR COLLECTING AND STORING DATA RELATED TO A CONDITION OF AN ABSORBENT PRODUCT
(73) Essity Hygiene and Health Aktiebolag
(72) KARLSSON, Fredrik
GUSTAFSSON, Anders
BOSAEUS, Mattias
AALERUD, Kyrre
OLOFSSON RANTA, Christer
(74) ir. M.F.J.M. Ketelaars c.s.
(47) 27.10.2021

(51) H01B 1/04
(11) EP3695423
(21) EP18785357.7
(22) 10.10.2018
(54) ELECTRO-ACTIVE POLYMER DEVICE AND METHOD FOR MANUFACTURING SUCH A DEVICE
(73) Single Buoy Moorings Inc.
(72) TAINE, Emmanuel
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 17306374
(32) 11.10.2017
(33) European Patent Office (EPO)
(47) 24.11.2021

(51) H01F 13/00
(11) EP2755217
(21) EP14150254.2
(22) 07.01.2014
(54) Demagnetisation method
(73) Maurer, Albert
(72) Maurer, Albert
Meyer, Urs
Rohner, Marek
(74) drs. C.H. Mink-Lindenburg
(31) 1502013
(32) 14.01.2013
(33) Switzerland
(47) 22.09.2021

(51) H01H 3/14
E05F 15/00
(11) EP3482407
(21) EP17751404.9
(22) 11.08.2017
(54) CLOSING-EDGE SAFETY DEVICE WITH PRECHAMBER
(73) Haake, Oliver
Haake, André
Haake, Patrick
(72) Haake, Oliver
Haake, Patrick
Haake, André
(74) ir. J.C. Volmer c.s.
(31) 102016114886
(32) 11.08.2016
(33) Germany
(47) 06.10.2021

(51) H01H 13/16
H01H 21/26
(11) EP3520128
(21) EP17777190.4
(22) 14.09.2017
(54) FOOT PEDAL FOR CONTROLLING A MEDICAL DEVICE
(73) Ferton Holding S.A.
(72) LEBRETON, Etienne
BEANI, Florent Jean-Claude Georges
(74) ir. A. Blokland c.s.
(31) 102016118602
(32) 30.09.2016
(33) Germany
(47) 06.10.2021

(51) H01L 21/02
H01L 21/304
H01L 21/205
H01L 21/762
(11) EP3349237
(21) EP16844389.3
(22) 07.09.2016
(54) METHOD FOR MANUFACTURING SIC COMPOSITE SUBSTRATE, AND METHOD FOR MANUFACTURING SEMICONDUCTOR SUBSTRATE
(73) Shin-Etsu Chemical Co., Ltd.
Cusic Inc.
(72) KUBOTA Yoshihiro
AKIYAMA Shoji
NAGASAWA Hiroyuki
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 2015179290
(32) 11.09.2015
(33) Japan
(47) 27.10.2021

(51) H01L 21/768
H01L 23/48
H01L 25/065
(11) EP2427909

(21) EP10720068.5
(22) 07.05.2010
(54) PANELIZED BACKSIDE PROCESSING FOR THIN SEMICONDUCTORS
(73) QUALCOMM Incorporated
(72) CHANDRASEKARAN, Arvind
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 437168
(32) 07.05.2009
(33) United States of America
(47) 24.11.2021

(51) H01L 21/98
H01L 25/065
(11) EP2656383
(21) EP11713628.3
(22) 01.04.2011
(54) MICROELECTRONIC ASSEMBLY
(73) Tessera, Inc.
(74) ir. F.A. Geurts c.s.
(31) 201061424906 P
(32) 20.12.2010
(33) United States of America
(47) 03.11.2021

(51) H01L 23/31
H01L 23/495
H01L 23/498
H01L 23/00
H01L 21/56
B29C 45/14
(11) EP3459109
(21) EP17728946.9
(22) 18.05.2017
(54) INTEGRATED CIRCUIT PACKAGE AND METHOD OF MANUFACTURING THE SAME
(73) Sencio B.V.
(72) VAN DOMMELEN, Ignatius Josephus
JANSEN, Johannes Stephanus
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 16170345
(32) 19.05.2016
(33) European Patent Office (EPO)
(47) 17.11.2021

(51) H01L 27/092
H01L 27/02
H03K 17/0814
H01L 23/485
H01L 21/8238
H01L 23/50
H03K 19/003
H01L 23/00
(11) EP2319081
(21) EP09790496.5
(22) 15.07.2009
(54) METHOD AND APPARATUS FOR FORMING I/O CLUSTERS IN INTEGRATED CIRCUITS
(73) QUALCOMM Incorporated
(72) JALILIZEINALI, Reza
TOMS, Thomas, R.
MOHAN, Vivek
DUNDIGAL, Sreeker
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 182454
(32) 30.07.2008
(33) United States of America
(47) 24.11.2021

(51) H01L 27/146
H01L 21/762
(11) EP3523826
(21) EP17780436.6
(22) 10.10.2017
(54) FRONT-SIDE TYPE IMAGE SENSOR AND METHOD FOR MANUFACTURING SUCH A SENSOR
(73) Soitec
(72) SCHWARZENBACH, Walter
(74) ir. F.A. Geurts c.s.
(31) 1659763
(32) 10.10.2016
(33) France
(47) 17.11.2021

(51) H01L 31/0224
H01L 31/068
H01L 31/05
(11) EP3457443
(21) EP18202845.6
(22) 30.04.2012
(54) SOLAR CELL AND SOLAR CELL MODULE
(73) LG ELECTRONICS INC.
(72) SHIN, Myungjun
CHOI, Minho
LEE, Seongeun
YANG, Youngsung
(74) J.M.H. Duyver lic.
(31) 20110048071
(32) 20.05.2011
(33) Korea (Republic)
(47) 24.11.2021

(51) H01L 31/0525
H01L 31/054
H02S 10/10
H01L 35/00
H02S 40/22
H02S 40/44
(11) EP3349351
(21) EP16843659.0
(22) 08.09.2016
(54) INTEGRATED SOLAR ENERGY UTILIZATION APPARATUS AND SYSTEM
(73) Boly Media Communications (Shenzhen) Co., Ltd
(72) HU, Xiaoping
(74) dr. W.A.H.M. Van Borm
(31) 201510576621
(32) 11.09.2015
(33) China
(47) 17.11.2021

(51) H01L 31/0747
H01L 31/20
(11) EP3770975
(21) EP19188562.3
(22) 26.07.2019
(54) PHOTOVOLTAIC DEVICE AND METHOD FOR MANUFACTURING THE SAME
(73) Meyer Burger (Germany) GmbH
(72) BÄTZNER, Derk
STRAHM, Benjamin
LACHENAL, Damien
(74) J.M.H. Duyver lic.
(47) 24.11.2021

(51) H01L 31/173
H01L 31/0203
H01L 31/0232
A61B 5/1455
A61B 5/00
(11) EP3057142
(21) EP16153392.2
(22) 29.01.2016
(54) BI-DIRECTIONAL REFLECTIVE OPTICAL SENSOR MODULE
(73) Taiwan Biophotonic Corporation
(72) LI, Yu-Tang
CHEN, Jyh-Chern
CHUNG, Lung-Pin
CHUNG, Shuang-Chao
FAN, Chih-Hsun
CHU, Chang-Sheng
LEE, Yeh-Wen
(74) ir. W.J.J.M. Kempes
(31) 201562115648 P
(32) 13.02.2015
(33) United States of America
(47) 15.12.2021

(51) H01L 33/08
H01L 33/16
H01L 33/24
(11) EP3323152
(21) EP16738444.5
(22) 13.07.2016
(54) NANOWIRES/NANOPYRAMIDS SHAPED LIGHT EMITTING DIODES AND PHOTODETECTORS
(73) Crayonano AS
Norwegian University of Science and Technology (NTNU)
(72) KIM, Dong Chul
FIMLAND, Bjørn Ove M.
WEMAN, Helge
DHEERAJ, Dasa L.
(74) J.M.H. Duyver lic.
(31) 201600164
201512231
(32) 05.01.2016
13.07.2015
(33) United Kingdom
United Kingdom
(47) 27.10.2021

(51) H01L 33/10
H01L 33/40
H01L 33/46
(11) EP3346510
(21) EP18154218.4
(22) 23.11.2012
(54) SEMICONDUCTOR LIGHT EMITTING DEVICE FOR ULTRAVIOLET LIGHT
(73) Suzhou Lekin Semiconductor Co., Ltd.
(72) KIM, Jae Hoon
(74) J.M.H. Duyver lic.
(31) 20110124452
(32) 25.11.2011
(33) Korea (Republic)
(47) 17.11.2021

(51) H01L 41/09
H01L 41/047
B06B 1/02
(11) EP3743951
(21) EP19704360.7
(22) 18.01.2019
(54) METHODS FOR DESIGNING AND MANUFACTURING A DEVICE

COMPRISING A MICROFABRICATED ELEMENT NETWORK
(73) SOITEC
(72) GHYSELEN, Bruno
(74) dr. W.A.H.M. Van Borm
(31) 1850484
(32) 22.01.2018
(33) France
(47) 10.11.2021

(51) H01L 51/48
H01L 51/46
(11) EP3248229
(21) EP16739686.0
(22) 21.01.2016
(54) PROCESS OF FORMING A PHOTOACTIVE LAYER OF A PEROVSKITE PHOTOACTIVE DEVICE
(73) Commonwealth Scientific and Industrial Research Organisation
(72) VAK, Doojin
HEO, Youn-Jung
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 2015900169
(32) 21.01.2015
(33) Australia
(47) 27.10.2021

(51) H01M 8/18
(11) EP3566257
(21) EP18709112.9
(22) 03.01.2018
(54) MECHANICAL ENERGY STORAGE IN FLOW BATTERIES TO ENHANCE ENERGY STORAGE
(73) Saudi Arabian Oil Company
(72) HAMMAD, Ahmad, D.
AMR, Issam, T.
SOUENTIE, Stamatios
(74) ir. W.J.J.M. Kempes
(31) 201715397991
(32) 04.01.2017
(33) United States of America
(47) 13.10.2021

(51) H01M 10/052
H01M 50/147
H01M 50/148
H01M 50/172
H01M 50/543
(11) EP3641005
(21) EP19202023.8
(22) 07.02.2018
(54) SECONDARY BATTERY AND BATTERY MODULE
(73) Contemporary Amperex Technology Co., Limited
(72) CHEN, Baisong
WANG, Peng
LI, Quankun
ZHU, Taosheng
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201710766041
(32) 30.08.2017
(33) China
(47) 24.11.2021

(51) H01M 10/0525
H01M 10/0567
(11) EP3627606
(21) EP19198416.0
(22) 19.09.2019
(54) ELECTROLYTE AND ELECTROCHEMICAL DEVICE
(73) Ningde Amperex Technology Limited
(72) WU, Fei
WANG, Kefei
ZENG, Qiao
XIAO, Liangzhen
(74) J.M.H. Duyver lic.
(31) 201811108529
(32) 21.09.2018
(33) China
(47) 13.10.2021

(51) H01M 50/247
H01M 50/262
(11) EP3228288
(21) EP15889668.8
(22) 01.09.2015
(54) LOCK-CATCH FITTING STRUCTURE OF ELECTRIC AIR-PURIFYING RESPIRATOR OF AUTO-DARKENING WELDING MASK
(73) Tecmen Electronics Co., Ltd.
(74) ir. C.G.C. Veldman-Dijkers
(31) 201510194247
(32) 22.04.2015
(33) China
(47) 03.11.2021

(51) H01P 3/12
H01P 5/02
H01P 1/207
(11) EP3414789
(21) EP17701105.3
(22) 18.01.2017
(54) A TRANSITION ARRANGEMENT COMPRISING A CONTACTLESS TRANSITION OR CONNECTION BETWEEN AN SIW AND A WAVEGUIDE OR AN ANTENNA
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) ALJAROSHA, Alhassan
UZ ZAMAN, Ashraf
MAASKANT, Rob
(74) ir. A. Blokland c.s.
(31) 1650181
(32) 12.02.2016
(33) Sweden
(47) 06.10.2021

(51) H01R 4/48
H01R 9/24
(11) EP3629421
(21) EP19195342.1
(22) 04.09.2019
(54) A CONNECTING TERMINAL
(73) Sampro A/S
(72) CHRISTENSEN, Søren Paaske
(74) dr. A. Krebs
(31) PA201800647
(32) 27.09.2018
(33) Denmark
(47) 13.10.2021

(51) H01R 4/48
H01R 9/24
H01R 13/436
(11) EP3405997
(21) EP17700682.2
(22) 18.01.2017
(54) ELECTRICAL PLUG-IN CONNECTOR AND METHOD FOR MOUNTING SAME
(73) Bals Elektrotechnik GmbH & Co. Kg
(72) RAMM, Andreas
(74) J.M.H. Duyver lic.
(31) 102016100755
(32) 18.01.2016
(33) Germany
(47) 17.11.2021

(51) H01R 12/70
(11) EP3412965
(21) EP18175895.4
(22) 05.06.2018
(54) INTEGRATED LIGHTS
(73) Wilhelm Koch GmbH
(72) EDENFELD, Hans-Ferdi
(74) ir. A. Ferguson
(31) 102017112542
(32) 07.06.2017
(33) Germany
(47) 13.10.2021

(51) H01R 13/58
H01R 13/6593
H01R 13/506
H01R 13/533
H01R 13/6591
H01R 4/60
H01R 4/64
H01R 13/6599
(11) EP3680991
(21) EP20150751.4
(22) 08.01.2020
(54) ELECTRICALLY SHIELDED COUPLING ASSEMBLY AND ITS USE
(73) HUMMEL AG
(72) Hoch, Achim
(74) ir. H.A. Witmans c.s.
(31) 102019100659
(32) 11.01.2019
(33) Germany
(47) 06.10.2021

(51) H01R 43/28
(11) EP3596788
(21) EP18712493.8
(22) 06.03.2018
(54) ARRANGEMENT APPARATUS FOR RECEIVING AND ARRANGING WIRE SECTIONS
(73) SW Automatisierung GmbH
(72) SCHAUER, Johannes
(74) J.M.H. Duyver lic.
(31) 502022017
(32) 14.03.2017
(33) Austria
(47) 06.10.2021

(51) H01S 3/10
H01S 3/23
H01S 3/223
H05G 2/00
H01S 3/00
(11) EP3167693
(21) EP14739145.2
(22) 11.07.2014
(54) DRIVER LASER ARRANGEMENT, EUV RADIATION GENERATION APPARATUS AND METHOD FOR AMPLIFYING PULSED LASER RADIATION
(73) TRUMPF Lasersystems for Semiconductor Manufacturing GmbH
(74) ir. W.J.J.M. Kempes

(47) 03.11.2021

(51) H02B 1/20
H02B 1/42
H02B 1/18
H02B 1/16
H01R 25/16
H01R 31/06
(11) EP3297108
(21) EP17191375.9
(22) 15.09.2017
(54) FUSE ASSEMBLY FOR PROTECTING OUTER CONDUCTORS OF AN ELECTRICAL FUSE UNIT FOR FORMING A BUILDING CONNECTION
(73) Varlemann, Walter
Frese, Bernd
(72) Frese, Bernd
Varlemann, Walter
(74) ir. J.C. Volmer c.s.
(31) 102016117397
(32) 15.09.2016
(33) Germany
(47) 06.10.2021

(51) H02H 3/087
(11) EP2672595
(21) EP13002925.9
(22) 06.06.2013
(54) Switching assembly and method for interrupting direct current
(73) SMA Solar Technology AG
(72) Bertelsmann, Götz-Martin
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 102012016696
102012011209
(32) 24.08.2012
06.06.2012
(33) Germany
Germany
(47) 20.10.2021

(51) H02J 3/06
G06Q 10/00
(11) EP3648279
(21) EP18203473.6
(22) 30.10.2018
(54) METHOD, ELECTRICAL GRID AND COMPUTER PROGRAM PRODUCT FOR PREDICTING OVERLOADS IN AN ELECTRICAL GRID
(73) Schleswig-Holstein Netz AG
(72) Liebner, Timo
Pilgram, Bernd
Tornow, Marco
Weigenand, Arne
Petersen, Timm
(74) ir. W.J.J.M. Kempes
(47) 01.12.2021

(51) H02J 7/00
H02J 7/04
(11) EP3105834
(21) EP15707212.5
(22) 12.02.2015
(54) CIRCUITS AND METHODS FOR CONTROLLING SKIN TEMPERATURE OF AN ELECTRONIC DEVICE
(73) Qualcomm Incorporated
(72) SUTTON, Todd R.
HAWAWINI, Shadi
SPORCK, Christian G.
GARCEA, Giovanni
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201414179403
(32) 12.02.2014
(33) United States of America
(47) 24.11.2021

(51) H02K 1/16
H02K 3/28
H02K 3/46
H02K 15/085
H02K 3/52
(11) EP3323188
(21) EP16825192.4
(22) 14.07.2016
(54) STATOR WITH INSULATING BOBBIN IN A BRUSHLESS MOTOR
(73) Bergstrom, Inc.
(72) YANG, Kuilin
WANG, Lei
LI, Gengxiang
(74) dr. ir. G.J.C. Verdijck c.s.
(31) 201510420136
(32) 16.07.2015
(33) China
(47) 20.10.2021

(51) H02K 7/04
H02K 33/02
A61C 17/22
A61C 17/34
(11) EP3734808
(21) EP20163232.0
(22) 16.03.2020
(54) PERSONAL HYGIENE DEVICE
(73) Braun GmbH
(72) SCHAEFER, Norbert
PASCHOLD, Matthias
SCHWARZ, Tobias
SCHOBER, Uwe
SCHÄFER, Robert
(31) 19172245
(32) 02.05.2019
(33) European Patent Office (EPO)
(47) 08.12.2021

(51) H02K 13/04
H02K 23/56
H02K 1/30
H02K 13/10
H02K 13/00
(11) EP2790304
(21) EP14002372.2
(22) 23.09.2011
(54) DC motor with flexible rotor construction and manufacturing process
(73) maxon international ag
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 102010049524
(32) 25.10.2010
(33) Germany
(47) 03.11.2021

(51) H02K 19/26
H02K 21/42
H02K 21/44
H02K 21/04
H02K 21/38
(11) EP2833526
(21) EP13768192.0
(22) 21.03.2013
(54) ELECTRICAL POWER MOTOR-GENERATOR EXCITED BY MAGNETIC TRANSFERENCE
(73) ASEPRAUTO. S.L.
(72) López Martín, José Luis
Pérez Rodríguez, Arturo
(74) ir. F.A. Geurts c.s.
(31) 201200334
(32) 28.03.2012
(33) Spain
(47) 13.10.2021

(51) H02P 21/05
H02P 6/10
(11) EP3610570
(21) EP18799749.9
(22) 07.11.2018
(54) CAPACITANCE REDUCTION
(73) EBM-Papst Mulfingen GmbH&CO. KG
(74) ir. W.J.J.M. Kempes
(31) 102017126150
(32) 08.11.2017
(33) Germany
(47) 03.11.2021

(51) H03K 3/012
H03K 3/356
H03K 19/0185
H03K 19/00
(11) EP3479479
(21) EP17733260.8
(22) 13.06.2017
(54) HIGH SPEED VOLTAGE LEVEL SHIFTER AND METHOD FOR PERFORMING VOLTAGE LEVEL SHIFTING
(73) Qualcomm Incorporated
(72) CHEN, Rui
LU, De
VILANGUDIPITCHAI, Ramaprasath
NARAYANAN, Venkat
VATTIKONDA, Rakesh
SINHAROY, Samrat
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201615367706
201662357164 P
(32) 02.12.2016
30.06.2016
(33) United States of America
United States of America
(47) 17.11.2021

(51) H03M 7/40
H04N 19/13
H04N 19/46
H04N 19/60
H04N 19/61
H04N 19/70
(11) EP3667924
(21) EP19182786.4
(22) 06.10.2011
(54) SIGNAL COMPRISING VIDEO DATA
(73) InterDigital VC Holdings, Inc.
(72) SOLE, Joel
HU, Yang
LU, Xiaoan
ZHENG, Yunfei
YIN, Peng
(31) 39319510 P
(32) 14.10.2010
(33) United States of America

(47) 06.10.2021
(51) H04B 3/54
(11) EP2936696
(21) EP13716359.8
(22) 23.01.2013
(54) METHODS AND DEVICES FOR DETERMINING A PHASE TO WHICH A RECEIVER DEVICE IS CONNECTED IN A POLYPHASE ELECTRIC POWER SUPPLY SYSTEM
(73) Sagemcom Energy & Telecom SAS
(72) PIGEON, Nicolas
(74) ir. W.J.J.M. Kempes
(31) PCT/IB2012/002929
(32) 21.12.2012
(33) World Intellectual Property Office (WIPO)
(47) 29.09.2021

(51) H04B 7/02
(11) EP2963840
(21) EP13884902.1
(22) 06.12.2013
(54) FEEDBACK METHOD AND DEVICE FOR CHANNEL INFORMATION
(73) Huawei Technologies Co., Ltd.
(72) LUO, Yi
YANG, Xun
LI, Jing
(74) ir. W.J.J.M. Kempes
(31) 201310181047
(32) 16.05.2013
(33) China
(47) 27.10.2021

(51) H04B 7/04
H04B 7/06
H04L 25/02
(11) EP3669465
(21) EP17757508.1
(22) 18.08.2017
(54) TRANSMISSION TO MOVING RECEIVERS
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) MALEK-MOHAMMADI, Mohammadreza
LINCOLN, Bo
(74) ir. A. Blokland c.s.
(47) 01.12.2021

(51) H04B 7/0408
H04B 7/0456
H04B 7/06
H04L 5/00
H04L 25/02
H04W 88/14
(11) EP3857718
(21) EP18782531.0
(22) 27.09.2018
(54) STEERING VECTOR WEIGHTING FOR ZF BACKHAUL TRANSMISSION
(73) TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
(72) WIGREN, Torbjörn
KANGAS, Ari
(74) ir. A. Blokland c.s.
(47) 08.12.2021

(51) H04B 7/06
(11) EP3588803
(21) EP19189899.8
(22) 17.09.2015
(54) DETERMINATION OF A PREFERRED BEAM IN A CELLULAR COMMUNICATION NETWORK EMPLOYING SIGNAL BEAM-FORMING
(73) Telefonaktiebolaget LM Ericsson (publ)
(74) ir. A. Blokland c.s.
(47) 03.11.2021

(51) H04B 7/06
H04B 7/08
H04B 7/26
H04L 5/00
H04W 56/00
H04W 72/04
H04W 74/08
(11) EP3497815
(21) EP17755615.6
(22) 11.08.2017
(54) RACH CONVEYANCE OF DL SYNCHRONIZATION BEAM INFORMATION FOR VARIOUS DL-UL CORRESPONDENCE STATES
(73) Qualcomm Incorporated
(72) ABEDINI, Navid
ISLAM, Muhammad Nazmul
SADIQ, Bilal
LI, Junyi
SUBRAMANIAN, Sundar
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201715674264
201662418072 P
201662407423 P
201662406377 P
201662379209 P
201662374735 P
(32) 10.08.2017
04.11.2016
12.10.2016
10.10.2016
24.08.2016
12.08.2016
(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
(47) 17.11.2021

(51) H04B 7/06
H04B 7/08
H04L 5/00
H04B 7/26
H04W 56/00
H04W 72/04
H04W 74/08
(11) EP3497816
(21) EP17757628.7
(22) 11.08.2017
(54) RACH CONVEYANCE OF DL SYNCHRONIZATION BEAM INFORMATION FOR VARIOUS DL-UL CORRESPONDENCE STATES
(73) Qualcomm Incorporated
(72) ISLAM, Muhammad Nazmul
LI, Junyi
ABEDINI, Navid
SADIQ, Bilal
SUBRAMANIAN, Sundar
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201715674214
201662418072 P
201662407423 P
201662406377 P
201662379209 P
201662374735 P
(32) 10.08.2017
04.11.2016
12.10.2016
10.10.2016
24.08.2016
12.08.2016
(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
(47) 10.11.2021

(51) H04B 10/116
(11) EP3479501
(21) EP16742170.0
(22) 30.06.2016
(54) CONTROLLING COMMUNICATIONS BETWEEN VISIBLE LIGHT COMMUNICATION ACCESS POINTS AND USER EQUIPMENT
(73) Telefonaktiebolaget LM Ericsson (PUBL)
(72) SEYVET, Nicolas
LIANG, Hongxin
WANG, Keven
(74) ir. A. Blokland c.s.
(47) 10.11.2021

(51) H04B 10/2507
H04B 10/588
H04B 10/2537
(11) EP3698490
(21) EP18793197.7
(22) 18.10.2018
(54) APPARATUS AND METHOD FOR REDUCING DISTORTION OF AN OPTICAL SIGNAL
(73) Leonardo UK Ltd
(72) ALOM, Mohammed
HAXHA, Shyqyri
FLINT, Ian
(74) ir. H.A. Witmans c.s.
(31) 201717084
(32) 18.10.2017
(33) United Kingdom
(47) 22.09.2021

(51) H04B 10/60
H04B 10/073
H04B 10/67
H04B 10/079
G02B 6/43
G02B 6/42
(11) EP3207644
(21) EP15851001.6
(22) 16.10.2015
(54) METHOD FOR DETERMINING RECEIVER COUPLING EFFICIENCY IN HALF ACTIVE OPTICAL CABLES
(73) Samtec, Inc.
(72) CORNELIUS, Joshua R.
LANGSAM, David A.
KOZLOVSKY, William J.
ZBINDEN, Eric Jean

(74) ir. F.A. Geurts c.s.
(31) 201462065130 P
(32) 17.10.2014
(33) United States of America
(47) 29.09.2021

(51) H04L 1/00
(11) EP3035578
(21) EP16150123.4
(22) 11.07.2008
(54) ADAPTIVE COMPRESSION OF CHANNEL FEEDBACK BASED ON SECOND ORDER CHANNEL STATISTICS
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) KRASNY, Leonid
HUI, Dennis
(74) ir. A. Blokland c.s.
(31) 777671
(32) 13.07.2007
(33) United States of America
(47) 01.12.2021

(51) H04L 1/00
H04L 1/06
H04B 7/04
H04B 7/06
(11) EP2918030
(21) EP13821136.2
(22) 21.10.2013
(54) ADAPTIVE TRANSMISSION MODE SWITCHING
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) DEANE, Peter
CHEN, Xixian
LAI, Xiaoming
(74) ir. A. Blokland c.s.
(31) 201213673202
(32) 09.11.2012
(33) United States of America
(47) 08.12.2021

(51) H04L 1/16
H04L 1/18
(11) EP3465964
(21) EP17728396.7
(22) 25.05.2017
(54) HARQ FEEDBACK IN SHARED RF SPECTRUM BAND
(73) QUALCOMM Incorporated
(72) PATEL, Chirag
LUO, Tao
CHENDAMARAI KANNAN, Arumugam
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201715604326
201662342870 P
(32) 24.05.2017
27.05.2016
(33) United States of America
United States of America
(47) 10.11.2021

(51) H04L 1/16
H04L 1/18
(11) EP3529930
(21) EP17800615.1
(22) 19.10.2017
(54) HARQ FEEDBACK FOR UNSCHEDULED UPLINK
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) KARAKI, Reem
MUKHERJEE, Amitav
CHENG, Jung-Fu
(74) ir. A. Blokland c.s.
(31) 201662411189 P
(32) 21.10.2016
(33) United States of America
(47) 08.12.2021

(51) H04L 1/16
H04L 5/00
(11) EP3451569
(21) EP18199919.4
(22) 18.06.2008
(54) MULTIPLEXING OF SOUNDING SIGNALS IN ACK AND CQI CHANNELS
(73) Qualcomm Incorporated
(72) MALLADI, Durga Prasad
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 141000
945076 P
944779 P
(32) 17.06.2008
19.06.2007
18.06.2007
(33) United States of America
United States of America
United States of America
(47) 17.11.2021

(51) H04L 1/18
(11) EP3526921
(21) EP17777910.5
(22) 03.10.2017
(54) INFRASTRUCTURE EQUIPMENT, METHOD, WIRELESS TELECOMMUNICATIONS SYSTEM, CIRCUITRY AND COMMUNICATIONS DEVICE
(73) Sony Group Corporation
(72) WONG, Shin Horng
BEALE, Martin Warwick
(74) ir. W.J.J.M. Kempes
(31) 16197188
(32) 03.11.2016
(33) European Patent Office (EPO)
(47) 01.12.2021

(51) H04L 1/18
H04L 5/00
H04W 72/04
(11) EP3211813
(21) EP17154309.3
(22) 02.02.2017
(54) DEVICE AND METHOD OF HANDLING HYBRID AUTOMATIC REPEAT REQUEST TRANSMISSION
(73) Acer Incorporated
(72) LEE, Chien-Min
(74) ir. A.R. Aalbers
(31) 201715414647
201662290962 P
(32) 25.01.2017
04.02.2016
(33) United States of America
United States of America
(47) 20.10.2021

(51) H04L 1/18
H04L 5/16
H04L 1/00
(11) EP3335346
(21) EP15750421.8
(22) 12.08.2015
(54) METHOD OF DETERMINING A MODE OF OPERATION FOR A WIRELESS TERMINAL
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) FODOR, Gabor
KAZMI, Muhammad
(74) ir. A. Blokland c.s.
(47) 15.12.2021

(51) H04L 1/18
H04W 74/00
H04W 74/08
(11) EP3694129
(21) EP20167322.5
(22) 12.05.2016
(54) METHOD FOR ADJUSTING CONTENTION WINDOW SIZE IN WIRELESS ACCESS SYSTEM SUPPORTING UNLICENSED BAND, AND DEVICE FOR SUPPORTING SAME
(73) LG Electronics Inc.
(72) AHN, Joonkui
HWANG, Daesung
SEO, Hanbyul
KIM, Kijun
YANG, Suckchel
PARK, Hanjun
KIM, Byounghoon
KIM, Seonwook
(74) J.M.H. Duyver lic.
(31) 201562256589 P
201562238706 P
201562237587 P
201562219101 P
201562216996 P
201562213119 P
201562207901 P
201562204411 P
201562165158 P
201562160597 P
(32) 17.11.2015
08.10.2015
06.10.2015
15.09.2015
10.09.2015
02.09.2015
20.08.2015
12.08.2015
21.05.2015
12.05.2015
(33) United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
United States of America
(47) 29.09.2021

(51) H04L 1/22
H03M 13/03
H04B 10/516
H04B 10/60
H03M 13/00
H04L 1/00
H03M 13/25

H03M 13/15
(11) EP3025447
(21) EP14828769.1
(22) 24.07.2014
(54) CHAIN ENCODING AND DECODING OF HIGH SPEED SIGNALS
(73) Ciena Corporation
(72) OVEIS GHARAN, Shahab
ROBERTS, Kim B.
(74) J.M.H. Duyver lic.
(31) 201313949627
(32) 24.07.2013
(33) United States of America
(47) 24.11.2021

(51) H04L 5/00
(11) EP2514131
(21) EP10776839.2
(22) 20.09.2010
(54) METHOD AND ARRANGEMENT FOR RECONFIGURING MAPPING OF CARRIER INDICATOR FIELD TO COMPONENT CARRIER
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) BALDEMAIR, Robert
PARKVALL, Stefan
GERSTENBERGER, Dirk
LARSSON, Daniel
(74) ir. A. Blokland c.s.
(31) 286138 P
(32) 14.12.2009
(33) United States of America
(47) 10.11.2021

(51) H04L 5/00
(11) EP3281344
(21) EP16716908.5
(22) 07.04.2016
(54) PUCCH RESOURCE ALLOCATION AND FALLBACK OPERATION
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) YANG, Yu
LINDQVIST, Fredrik
SONG, Xinghua
LI, Shaohua
LARSSON, Daniel
(74) ir. A. Blokland c.s.
(31) 201615082328
PCT/CN2015/076176
(32) 28.03.2016
09.04.2015
(33) United States of America
World Intellectual Property Office (WIPO)
(47) 27.10.2021

(51) H04L 5/00
(11) EP3487113
(21) EP18215234.8
(22) 19.03.2008
(54) A RESOURCE ALLOCATION METHOD AND A METHOD FOR TRANSMITTING/RECEIVING RESOURCE ALLOCATION INFORMATION IN MOBILE COMMUNICATION SYSTEM
(73) LG Electronics Inc.
(72) YUN, Young Woo
AHN, Joon Kui
LEE, Dae Won
KIM, Ki Jun
KIM, Eun Sun
SEO, Dong Youn
YOON, Suk Hyon
(74) J.M.H. Duyver lic.
(31) 20070089202
97839807 P
94558507 P
91509907 P
89570907 P
(32) 03.09.2007
08.10.2007
21.06.2007
30.04.2007
19.03.2007
(33) Korea (Republic)
United States of America
United States of America
United States of America
United States of America
(47) 06.10.2021

(51) H04L 5/00
(11) EP3497868
(21) EP17755389.8
(22) 11.08.2017
(54) NON-COHERENT JOINT TRANSMISSION TECHNIQUES
(73) QUALCOMM Incorporated
(72) MONTOJO, Juan
SUN, Jing
GAAL, Peter
CHEN, Wanshi
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201715674076
201662374601 P
(32) 10.08.2017
12.08.2016
(33) United States of America
United States of America
(47) 24.11.2021

(51) H04L 5/00
(11) EP3639446
(21) EP18735128.3
(22) 11.06.2018
(54) CARRIER AGGREGATION UNDER DIFFERENT SUBFRAME STRUCTURES IN NEW RADIO
(73) QUALCOMM Incorporated
(72) LEE, Heechoon
GAAL, Peter
CHEN, Wanshi
JI, Tingfang
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201816003753
201762521172 P
(32) 08.06.2018
16.06.2017
(33) United States of America
United States of America
(47) 24.11.2021

(51) H04L 5/00
H04L 1/00
(11) EP3577833
(21) EP18706064.5
(22) 05.02.2018
(54) SEARCH SPACE CONFIGURATION FOR NEW RADIO (NR) SYSTEM
(73) QUALCOMM Incorporated
(72) CHEN, Wanshi
GAAL, Peter
LEE, Heechoon
SUN, Jing
YANG, Yang
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201815887821
201762455579 P
(32) 02.02.2018
06.02.2017
(33) United States of America
United States of America
(47) 17.11.2021

(51) H04L 5/00
H04L 1/00
H04J 11/00
H04B 7/04
H04B 7/06
H04W 88/02
H04W 88/08
H04W 72/04
(11) EP2526639
(21) EP11733059.7
(22) 12.01.2011
(54) A METHOD AND AN APPARATUS FOR PROVIDING CHANNEL QUALITY INFORMATION IN A WIRELESS COMMUNICATION SYSTEM
(73) QUALCOMM Incorporated
(72) KIM, Ki Jun
LEE, Dae Won
SEO, In Kwon
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 296007 P
(32) 18.01.2010
(33) United States of America
(47) 17.11.2021

(51) H04L 5/00
H04W 16/14
H04W 74/08
(11) EP3641210
(21) EP19214789.0
(22) 10.09.2015
(54) RADIO ACCESS NODE, COMMUNICATION TERMINAL AND METHODS PERFORMED THEREIN
(73) Telefonaktiebolaget LM Ericsson (publ)
(74) ir. A. Blokland c.s.
(31) 201462048289 P
(32) 10.09.2014
(33) United States of America
(47) 03.11.2021

(51) H04L 5/00
H04W 56/00
(11) EP3602921
(21) EP18716407.4
(22) 15.03.2018
(54) TECHNIQUES FOR COMMUNICATING SYNCHRONIZATION SIGNAL BLOCK INDEX IN A TIMING SYNCHRONIZATION SIGNAL
(73) QUALCOMM Incorporated
(72) CEZANNE, Juergen
SADIQ, Bilal
ABEDINI, Navid
SUBRAMANIAN, Sundar
ISLAM, Muhammad Nazmul
LUO, Tao
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201815921026
201762476633 P

(32) 14.03.2018
24.03.2017
(33) United States of America
United States of America
(47) 01.12.2021

(51) H04L 5/00
H04W 72/04
(11) EP3692672
(21) EP18795835.0
(22) 27.09.2018
(54) FLEXIBLE MONITORING PERIODICITY FOR SLOT FORMAT INDICATOR
(73) QUALCOMM Incorporated
(72) SUN, Jing
GAAL, Peter
LEE, Heechoon
CHEN, Wanshi
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201816143381
201762566739 P
(32) 26.09.2018
02.10.2017
(33) United States of America
United States of America
(47) 24.11.2021

(51) H04L 5/00
H04W 74/08
(11) EP3753196
(21) EP20714464.3
(22) 24.03.2020
(54) NETWORK DEVICE, TERMINAL DEVICE, AND METHODS THEREIN
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) LI, Jingya
HARRISON, Robert Mark
LIN, Zhipeng
(74) ir. A. Blokland c.s.
(31) PCT/CN2019/084446
(32) 26.04.2019
(33) World Intellectual Property Office (WIPO)
(47) 27.10.2021

(51) H04L 9/06
H04L 9/08
H04L 9/12
H04L 9/16
(11) EP3609116
(21) EP19201317.5
(22) 14.09.2016
(54) DEVICE AND METHOD FOR RESONANT CRYPTOGRAPHY
(73) Global Risk Advisors
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201514976839
201562218850 P
(32) 21.12.2015
15.09.2015
(33) United States of America
United States of America
(47) 03.11.2021

(51) H04L 12/24
(11) EP3391588
(21) EP16788249.7
(22) 18.10.2016
(54) OPENFLOW CONFIGURED HORIZONTALLY SPLIT HYBRID SDN NODES
(73) Telefonaktiebolaget LM Ericsson (PUBL)
(72) KERN, András
GERÖ, Balázs Peter
VARGA, Balázs
TURÁNYI, Zoltán
(74) ir. A. Blokland c.s.
(31) 201514971908
(32) 16.12.2015
(33) United States of America
(47) 08.12.2021

(51) H04L 12/24
H04L 12/813
H04W 48/18
(11) EP3602961
(21) EP18709226.7
(22) 21.02.2018
(54) POLICY COMMUNICATION VIA CONTROL PLANE SIGNALING
(73) Qualcomm Incorporated
(72) GRIOT, Miguel
FACCIN, Stefano
ZISIMOPOULOS, Haris
ABRAHAM, Santosh,Paul
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 20170100110
201815877241
(32) 20.03.2017
22.01.2018
(33) Greece
United States of America
(47) 17.11.2021

(51) H04L 12/24
H04W 4/80
H04B 17/318
H04W 48/16
G06Q 10/08
H04W 84/20
(11) EP3783839
(21) EP20201387.6
(22) 31.05.2016
(54) SYSTEMS, APPARATUS, AND METHOD OF EVENT MONITORING FOR AN EVENT CANDIDATE RELATED TO AN ID NODE WITHIN A WIRELESS NODE NETWORK
(73) Fedex Corporate Services, Inc.
(72) HOLLAHAN, Terence
SKAAKSRUD, Ole-petter
(74) J.M.H. Duyver lic.
(31) 201562189911 P
(32) 08.07.2015
(33) United States of America
(47) 24.11.2021

(51) H04L 12/46
(11) EP3635918
(21) EP18743663.9
(22) 29.06.2018
(54) SYSTEMS FOR MANAGING MESSAGING CONVERSATIONS
(73) Apple Inc.
(72) MEHTA, Amish
VASUDEVA, Tarun
PAUL, Siddhartha
(74) J.M.H. Duyver lic.
(31) 201715803444
201762532293 P
(32) 03.11.2017
13.07.2017
(33) United States of America
United States of America
(47) 24.11.2021

(51) H04L 12/46
(11) EP3703319
(21) EP20154029.1
(22) 28.01.2020
(54) METHOD FOR ALLOCATING SIGNALS TO DIFFERENT COMPONENTS, COMPUTER PROGRAM AND COMPUTER READABLE STORAGE MEDIUM
(73) Deutsche Bahn AG
Siemens Mobility GmbH
(72) Aufderheide, Helge
Richter, Phillipp
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 102019202714
(32) 28.02.2019
(33) Germany
(47) 29.09.2021

(51) H04L 12/70
H04L 12/749
H04W 80/04
H04L 12/725
H04L 12/741
H04W 48/18
H04L 12/715
H04L 12/745
H04W 40/36
(11) EP3691203
(21) EP18860093.6
(22) 29.08.2018
(54) COMMUNICATION DEVICE, COMMUNICATION METHOD, AND COMPUTER PROGRAM
(73) Sony Group Corporation
(72) TAKANO, Hiroaki
KIMURA, Ryota
SAWAI, Ryo
TERAOKA, Fumio
(74) ir. W.J.J.M. Kempes
(31) 2017186520
(32) 27.09.2017
(33) Japan
(47) 15.12.2021

(51) H04L 27/26
(11) EP3066809
(21) EP14819062.2
(22) 10.06.2014
(54) OFDM BASED ORBITAL ANGULAR MOMENTUM SYSTEM AND METHOD
(73) Eutelsat SA
(72) DUTRONC, Jacques
SAITTO, Antonio
(74) J.M.H. Duyver lic.
(31) PCT/IB2013/003156
(32) 05.11.2013
(33) World Intellectual Property Office (WIPO)
(47) 27.10.2021

(51) H04L 27/26
(11) EP3526942
(21) EP17788061.4
(22) 11.10.2017
(54) SYNCHRONIZATION AND DATA CHANNEL NUMEROLOGY IN WIRELESS COMMUNICATIONS
(73) QUALCOMM Incorporated
(72) XU, Hao
CHEN, Wanshi

SUN, Jing
LY, Hung
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201715729153
201662408509 P
(32) 10.10.2017
14.10.2016
(33) United States of America
United States of America
(47) 17.11.2021

(51) H04L 27/26
(11) EP3568960
(21) EP18709807.4
(22) 26.02.2018
(54) DIFFERENT NUMEROLOGY FOR REFERENCE SIGNALS AND DATA IN MIXED NUMEROLOGY SCENARIO
(73) Telefonaktiebolaget LM Ericsson (PUBL)
(72) HESSLER, Martin
FRENNE, Mattias
FRÖBERG OLSSON, Jonas
(74) ir. A. Blokland c.s.
(31) 201762478084 P
(32) 29.03.2017
(33) United States of America
(47) 01.12.2021

(51) H04L 27/26
H04L 5/00
(11) EP3675445
(21) EP19207908.5
(22) 20.05.2015
(54) METHOD AND APPARATUS FOR TRANSMITTING PHYSICAL LAYER PROTOCOL DATA UNIT
(73) Huawei Technologies Co. Ltd.
(72) YU, Jian
LIN, Meilu
YANG, Xun
TSODIK, Genadiy
EZRI, Doron
SHILO, Shimon
LIU, Le
LIN, Wei
LIU, Sheng
REDLICH, Oded
(74) ir. W.J.J.M. Kempes
(31) PCT/CN2015/078333
(32) 05.05.2015
(33) World Intellectual Property Office (WIPO)
(47) 06.10.2021

(51) H04L 27/26
H04L 5/00
H04L 27/00
(11) EP3092758
(21) EP14878262.6
(22) 07.01.2014
(54) METHODS AND APPARATUSES FOR ENABLING A WIRELESS DEVICE TO COMMUNICATE WITH A RADIO NETWORK NODE IN AN UNLICENSED SPECTRUM
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) PARKVALL, Stefan
DAHLMAN, Erik
(74) ir. A. Blokland c.s.
(47) 17.11.2021

(51) H04L 29/06
(11) EP3632075
(21) EP18725254.9
(22) 25.05.2018
(54) SYSTEM AND METHOD TO MANAGE PRIVILEGES BASED ON THE AUTHENTICATION OF AN UNCLONEABLE SECURITY DEVICE
(73) Authentic Vision GmbH
(72) BERGMÜLLER, Thomas
WEISS, Thomas
(74) ir. F.A. Geurts c.s.
(31) 17173099
(32) 26.05.2017
(33) European Patent Office (EPO)
(47) 13.10.2021

(51) H04L 29/06
H04L 29/08
H04W 12/06
H04W 76/00
H04W 84/12
G06F 3/0484
H04W 68/00
H04W 76/19
H04W 76/45
(11) EP3522491
(21) EP19165309.6
(22) 29.06.2007
(54) SYSTEM, MOBILE TERMINAL AND METHOD FOR PROVIDING A USER INTERFACE TO CONTROL THE STORAGE OF DATA INTO WEB STORAGE USING WIRELESS LAN
(73) Samsung Electronics Co., Ltd.
(72) KIM, Jong Ryul
CHOI, Jong Jin
PARK, Woo Soon
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 20060064631
(32) 10.07.2006
(33) Korea (Republic)
(47) 01.12.2021

(51) H04L 29/06
H04W 4/70
H04W 12/041
H04W 12/0433
H03M 13/11
H04L 29/08
(11) EP3590242
(21) EP17754193.5
(22) 02.03.2017
(54) COMMUNICATION INTERFACE FOR A LOW POWER WIDE AREA NETWORK, WIRELESS DEVICE AND SERVER USING SUCH COMMUNICATION INTERFACE
(73) Actility
(72) HERSENT, Olivier
(74) J.M.H. Duyver lic.
(47) 29.09.2021

(51) H04L 29/06
H04W 8/04
H04W 8/06
H04W 60/00
H04W 76/19
H04W 76/38
(11) EP3729758
(21) EP17825986.7
(22) 22.12.2017
(54) DEVICE REGISTRATION IN A COMMUNICATIONS NETWORK
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) KELLER, Ralf
STILLE, Mats
(74) ir. A. Blokland c.s.
(47) 27.10.2021

(51) H04L 29/06
H04W 36/00
H04W 76/16
(11) EP3307009
(21) EP16192451.9
(22) 05.10.2016
(54) METHOD FOR ESTABLISHING A COMMUNICATION AND COMMUNICATION DEVICE
(73) NTT DOCOMO, INC.
(72) MUTIKAINEN, Jari
KOSHIMIZU, Takashi
GUERZONI, Riccardo
ALI, Irfan
(74) dr. ir. F.M. van Bouwelen
(47) 17.11.2021

(51) H04L 29/08
H04W 72/12
H04W 4/02
H04L 1/18
H04W 36/00
H04W 36/34
H04W 36/08
H04W 36/14
H04W 48/00
H04W 88/06
H04L 29/06
H04W 4/50
H04W 74/08
H04W 80/02
H04L 1/00
H04W 28/00
(11) EP3800868
(21) EP20202745.4
(22) 18.05.2017
(54) METHOD AND APPARATUS FOR PERFORMING EFFICIENT LAYER 2 FUNCTION IN MOBILE COMMUNICATION SYSTEM
(73) Samsung Electronics Co., Ltd.
(72) van Lieshout, Gert Jan
Kim, Sangbum
Kim, Soenghun
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 20160061054
(32) 18.05.2016
(33) Korea (Republic)
(47) 17.11.2021

(51) H04N 5/225
(11) EP3541063
(21) EP19170753.8
(22) 15.04.2016
(54) AUTO FOCUS AND OPTICAL IMAGE STABILIZATION IN A COMPACT FOLDED CAMERA
(73) Corephotonics Ltd.
(72) AVIVI, Gal
SHABTAY, Gal
YEDID, Itay
DROR, Michael
GOLDENBERG, Ephraim

BACHAR, Gil
(74) ir. W.J.J.M. Kempes
(31) 201562238890 P
201562148435 P
(32) 08.10.2015
16.04.2015
(33) United States of America
United States of America
(47) 15.12.2021

(51) H04N 5/225
H05K 3/30
G02B 7/02
G03B 17/08
G03B 3/04
(11) EP3544282
(21) EP17872132.0
(22) 20.11.2017
(54) CAMERA MODULE
(73) LG Innotek Co., Ltd.
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 20160154679
(32) 21.11.2016
(33) Korea (Republic)
(47) 03.11.2021

(51) H04N 5/445
G06F 3/048
(11) EP3203727
(21) EP16207635.0
(22) 07.10.2010
(54) SYSTEMS AND METHODS FOR NAVIGATING PROGRAM LISTINGS IN A MEDIA GUIDANCE APPLICATION
(73) Rovi Guides, Inc.
(72) SINHA, Gaurav
ARAI, China
CONNESS, Jason
PETERSON, Brian
(74) ir. W.J.J.M. Kempes
(31) 773205
773204
288123 P
(32) 04.05.2010
04.05.2010
18.12.2009
(33) United States of America
United States of America
United States of America
(47) 01.12.2021

(51) H04N 5/445
H04N 21/431
H04N 21/47
H04N 13/30
H04N 5/45
(11) EP3291540
(21) EP17187546.1
(22) 23.08.2017
(54) IMAGE DISPLAY APPARATUS AND OPERATING METHOD THEREOF
(73) Samsung Electronics Co., Ltd.
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 20160111691
(32) 31.08.2016
(33) Korea (Republic)
(47) 03.11.2021

(51) H04N 9/31
H04N 9/67
H04N 13/334
H04N 13/356
H04N 13/363
(11) EP3729801
(21) EP19835572.9
(22) 10.12.2019
(54) RENDERING WIDE COLOR GAMUT, TWO-DIMENSIONAL (2D) IMAGES ON THREE-DIMENSIONAL (3D) CAPABLE DISPLAYS
(73) Dolby Laboratories Licensing Corporation
(72) DAVIES, Trevor
RICHARDS, Martin J.
PENNA, Ashley Nicole
(74) J.M.H. Duyver lic.
(31) 201862785470 P
19155881
(32) 27.12.2018
07.02.2019
(33) United States of America
European Patent Office (EPO)
(47) 01.12.2021

(51) H04N 19/11
H04N 19/176
H04N 19/186
H04N 19/44
H04N 19/46
H04N 19/50
H04N 19/196
H04N 19/463
H04N 19/593
(11) EP3550836
(21) EP18207931.9
(22) 20.08.2012
(54) DECODING METHOD AND APPARATUS
(73) Huawei Technologies Co., Ltd.
(72) LI, Bin
ZHOU, Jiantong
LI, Houqiang
YANG, Haitao
(74) ir. W.J.J.M. Kempes
(31) 201210018818
(32) 20.01.2012
(33) China
(47) 13.10.2021

(51) H04N 19/124
H04N 19/186
H04N 19/176
H04N 19/196
(11) EP3688986
(21) EP19781993.1
(22) 05.03.2019
(54) AN IMAGE CODING METHOD BASED ON A QUANTIZATION PARAMETER DERIVATION
(73) LG Electronics Inc.
(72) LIM, Jaehyun
KIM, Seunghwan
(74) J.M.H. Duyver lic.
(31) 201862651243 P
(32) 01.04.2018
(33) United States of America
(47) 27.10.2021

(51) H04N 19/187
H04N 19/597
H04N 19/70
H04N 19/30
H04N 19/105
H04N 19/107
H04N 19/61
H04N 19/136
H04N 19/103
(11) EP2929687
(21) EP13818046.8
(22) 06.12.2013
(54) ADVANCED RESIDUAL PREDICTION IN SCALABLE AND MULTI-VIEW VIDEO CODING
(73) QUALCOMM INCORPORATED
(72) CHEN, Ying
KARCZEWICZ, Marta
ZHANG, Li
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201314098369
201261734874 P
(32) 05.12.2013
07.12.2012
(33) United States of America
United States of America
(47) 01.12.2021

(51) H04N 19/196
H04N 19/126
H04N 19/159
H04N 19/176
H04N 19/157
(11) EP3267684
(21) EP17182141.6
(22) 08.06.2011
(54) METHOD FOR DETERMINING QUANTIZATION PARAMETER PREDICTORS FROM A PLURALITY OF NEIGHBORING QUANTIZATION PARAMETERS
(73) InterDigital VC Holdings, Inc.
(72) XU, Qian
ZHENG, Yunfei
LU, Xiaoan
SOLE, Joel
YIN, Peng
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 353365 P
(32) 10.06.2010
(33) United States of America
(47) 22.09.2021

(51) H04N 19/33
H04N 19/463
H04N 19/124
H04N 19/14
H04N 19/18
H04N 19/70
H04N 19/176
H04N 19/119
H04N 19/30
H04N 19/196
H04N 19/126
H04N 19/174
H04N 19/44
(11) EP3675494
(21) EP20157915.8
(22) 03.06.2011
(54) CODING OF A QP AND A DELTA QP FOR IMAGE BLOCKS LARGER THAN A MINIMUM SIZE
(73) Sony Group Corporation
(72) Sato, Kazushi
(74) ir. W.J.J.M. Kempes
(31) 2011054816

2011053479
2010222300
2010129414
(32) 11.03.2011
10.03.2011
30.09.2010
04.06.2010
(33) Japan
Japan
Japan
Japan
(47) 15.12.2021

(51) H04N 19/463
H04N 19/52
H04N 19/96
H04N 19/53
H04N 19/593
(11) EP3697089
(21) EP20150595.5
(22) 13.04.2011
(54) INHERITANCE IN SAMPLE ARRAY MULTITREE SUBDIVISION
(73) GE Video Compression, LLC
(72) WIEGAND, Thomas
HELLE, Philipp
OUDIN, Simon
MARPE, Detlev
(74) ir. F.A. Geurts c.s.
(31) PCT/EP2010/054827
10159782
(32) 13.04.2010
13.04.2010
(33) World Intellectual Property Office (WIPO)
European Patent Office (EPO)
(47) 29.09.2021

(51) H04N 19/50
H04N 19/176
H04N 19/119
H04N 19/46
H04N 19/30
H04N 19/96
H04N 19/103
H04N 19/583
(11) EP3434018
(21) EP17716021.5
(22) 21.03.2017
(54) DECODING VIDEO DATA USING A TWO-LEVEL MULTI-TYPE-TREE FRAMEWORK
(73) QUALCOMM INCORPORATED
(72) ZHANG, Li
ZOU, Feng
CHEN, Jianle
CHUANG, Hsiao-Chiang
ZHAO, Xin
KARCZEWICZ, Marta
LI, Xiang
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201715463398
201662401016 P
201662311248 P
(32) 20.03.2017
28.09.2016
21.03.2016
(33) United States of America
United States of America
United States of America
(47) 10.11.2021

(51) H04N 19/597
H04N 19/52
H04N 19/70
H04N 19/58
(11) EP2826248
(21) EP13713300.5
(22) 14.03.2013
(54) HIGH-LEVEL SYNTAX EXTENSIONS FOR HIGH EFFICIENCY VIDEO CODING
(73) QUALCOMM Incorporated
(72) CHEN, Ying
WANG, Ye-Kui
ZHANG, Li
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201313801731
201261746476 P
201261663484 P
201261658344 P
201261624990 P
201261611959 P
(32) 13.03.2013
27.12.2012
22.06.2012
11.06.2012
16.04.2012
16.03.2012
(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
(47) 24.11.2021

(51) H04N 19/70
H04N 19/30
(11) EP3518547
(21) EP19155114.2
(22) 20.03.2008
(54) METHODS AND APPARATUS FOR VIDEO USABILITY INFORMATION (VUI) FOR SCALABLE VIDEO CODING (SVC)
(73) InterDigital VC Holdings, Inc.
(72) LUO, Jiancong
YIN, Peng
ZHU, Lihua
(31) 91149007 P
(32) 12.04.2007
(33) United States of America
(47) 06.10.2021

(51) H04N 19/96
H04N 19/91
H04N 19/176
H04N 19/13
H04N 19/139
(11) EP3261346
(21) EP17178390.5
(22) 27.05.2010
(54) IMAGE ENCODING DEVICE, IMAGE DECODING DEVICE, IMAGE ENCODING METHOD, AND IMAGE DECODING METHOD
(73) Mitsubishi Electric Corporation
(72) MINEZAWA, Akira
SEKIGUCHI, Shunichi
ITANI, Yusuke
KATO, Yoshiaki
SUGIMOTO, Kazuo
(74) J.M.H. Duyver Iic.
(31) 2009130433
(32) 29.05.2009
(33) Japan
(47) 01.12.2021

(51) H04N 21/234
H04N 21/81
(11) EP2605538
(21) EP12196891.1
(22) 13.12.2012
(54) Processing content streams that include additional content segments added in response to detection of insertion messages
(73) DISH Technologies L.L.C.
(72) Selway, Hugh A
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201113324889
(32) 13.12.2011
(33) United States of America
(47) 06.10.2021

(51) H04N 21/235
H04N 21/435
H04N 5/278
H04N 21/488
H04N 7/088
H04N 21/43
H04N 21/8547
H04N 21/426
H04N 21/431
(11) EP3324637
(21) EP16824339.2
(22) 05.07.2016
(54) TRANSMISSION DEVICE, TRANSMISSION METHOD, RECEIVING DEVICE AND RECEIVING METHOD
(73) Sony Group Corporation
(72) TSUKAGOSHI, Ikuo
(74) ir. W.J.J.M. Kempes
(31) 2015142497
(32) 16.07.2015
(33) Japan
(47) 22.12.2021

(51) H04N 21/81
G06T 19/00
A63F 13/26
(11) EP3610654
(21) EP18721565.2
(22) 10.04.2018
(54) LAYERED AUGMENTED ENTERTAINMENT EXPERIENCES
(73) Dolby Laboratories Licensing Corporation
(72) MAMMEN, Neil
NINAN, Ajit
BROWN, Tyrome Y.
(74) J.M.H. Duyver Iic.
(31) 201762484121 P
(32) 11.04.2017
(33) United States of America
(47) 17.11.2021

(51) H04R 1/10
(11) EP3529997
(21) EP17793795.0
(22) 19.10.2017
(54) IN-EAR NOISE DOSIMETRY SYSTEM
(73) Red Tail Hawk Corporation
(72) PARKINS, John W.
(74) ir. M.F.J.M. Ketelaars c.s.

(31) 201715497970
201662409930 P
(32) 26.04.2017
19.10.2016
(33) United States of America
United States of America
(47) 29.09.2021

(51) H04R 1/10
H04R 3/00
(11) EP3253070
(21) EP15879319.0
(22) 26.01.2015
(54) EARPHONE NOISE REDUCTION CONTROL METHOD AND APPARATUS
(73) Shenzhen Grandsun Electronic Co., Ltd.
(72) XU, Jiayun
WU, Haiquan
DU, Guozhong
SONG, Yanan
GENG, Xinian
SHI, Ruiwen
(74) ir. W.J.J.M. Kempes
(47) 27.10.2021

(51) H04R 13/00
H04R 11/02
(11) EP3644626
(21) EP19216516.5
(22) 18.11.2015
(54) LOUDSPEAKER APPARATUS
(73) PS Audio Design Oy
(72) Kajanus, Vesa
(74) ir. A.R. Aalbers
(31) 201420483
(32) 18.11.2014
(33) United Kingdom
(47) 13.10.2021

(51) H04W 4/18
H04W 4/60
H04L 29/08
H04W 4/50
(11) EP3525496
(21) EP19155468.2
(22) 06.04.2012
(54) DISTRIBUTING CONTENT AND SERVICE LAUNCH OBJECTS TO MOBILE DEVICES
(73) Headwater Partners II LLC
(72) Green, Jeffrey
Tellado, Jose
Raleigh, Gregory G.
(74) dr. ir. G.J.C. Verdijck c.s.
(31) 201161472606 P
(32) 06.04.2011
(33) United States of America
(47) 27.10.2021

(51) H04W 4/70
H04W 4/08
H04L 29/08
H04L 9/32
H04L 29/06
H04L 12/24
H04W 84/18
H04W 12/76
(11) EP3563546
(21) EP17832879.5
(22) 28.12.2017
(54) DECENTRALIZED DATA STORAGE AND PROCESSING FOR IOT DEVICES
(73) INTEL Corporation
(72) NOLAN, Michael
SMITH, Ned M.
BRADY, John
CARBONI, Davide
KELLY, Mark
CAHILL, Niall
BURNS, Gregory
NOLAN, Keith
(74) ir. W.J.J.M. Kempes
(31) 201662441070 P
(32) 30.12.2016
(33) United States of America
(47) 10.11.2021

(51) H04W 4/80
H04W 84/18
(11) EP3739916
(21) EP19201181.5
(22) 02.10.2019
(54) SYSTEM AND METHOD FOR ESTABLISHING BLUETOOTH MESH NETWORK
(73) Delta Electronics, Inc.
(72) TSENG, Chao-Chun
YANG, Yu-Chung
(74) ir. H.A. Witmans c.s.
(31) 201916552812
201962848930 P
(32) 27.08.2019
16.05.2019
(33) United States of America
United States of America
(47) 08.12.2021

(51) H04W 12/033
G06F 21/62
H04L 29/06
H04W 12/04
H04W 12/08
(11) EP2950231
(21) EP15169917.0
(22) 29.05.2015
(54) CONTEXT BASED DATA ACCESS CONTROL
(73) Apple Inc.
(72) Whalley, Andrew R
Benson, Wade
Sauerwald, Conrad
(74) ir. A.R. Aalbers
(31) 201414503244
201462005943 P
(32) 30.09.2014
30.05.2014
(33) United States of America
United States of America
(47) 08.12.2021

(51) H04W 12/041
H04W 92/10
H04W 8/20
H04W 12/0471
H04L 29/06
H04L 9/08
(11) EP3598690
(21) EP19183523.0
(22) 20.05.2008
(54) METHOD AND ARRANGEMENT IN A TELECOMMUNICATION SYSTEM
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) Mildh, Gunnar
Blom, Rolf
Norrman, Karl
(74) ir. A. Blokland c.s.
(31) 97295507 P
(32) 17.09.2007
(33) United States of America
(47) 08.12.2021

(51) H04W 24/00
H04W 76/15
H04W 76/34
H04W 76/19
H04W 92/20
(11) EP3661251
(21) EP19203964.2
(22) 08.08.2014
(54) RADIO BEARER PROCESSING METHOD, USER EQUIPMENT, AND BASE STATION
(73) Huawei Technologies Co., Ltd.
(72) LIN, Bo
SHI, Jie
ZHANG, Tao
(74) ir. W.J.J.M. Kempes
(47) 01.12.2021

(51) H04W 24/08
H04W 84/12
(11) EP3398367
(21) EP16819180.7
(22) 09.12.2016
(54) NETWORK PERFORMANCE FRAMEWORK FOR WIRELESS LOCAL AREA NETWORKS
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) SAHABI, Afshin
HALABIAN, Hassan
SKOF, Mike
(74) ir. A. Blokland c.s.
(31) 201562272149 P
(32) 29.12.2015
(33) United States of America
(47) 20.10.2021

(51) H04W 24/10
(11) EP3387857
(21) EP16819013.0
(22) 08.12.2016
(54) DEVICE FOR GENERATING A DATABASE
(73) VestiFi GmbH
(72) WOLLENBERG, Till
(74) dr. A. Krebs
(31) 102015121488
(32) 10.12.2015
(33) Germany
(47) 17.11.2021

(51) H04W 24/10
H04B 17/24
H04L 27/26
(11) EP3627880
(21) EP18801952.5
(22) 26.03.2018
(54) COMMUNICATION DEVICE, BASE STATION, METHOD AND RECORDING MEDIUM
(73) Sony Group Corporation
(72) SANADA, Yukitoshi
KIMURA, Ryota
MATSUDA, Hiroki
TANG, Yifu

KUSASHIMA, Naoki
(74) ir. W.J.J.M. Kempes
(31) 2017098801
(32) 18.05.2017
(33) Japan
(47) 13.10.2021

(51) H04W 24/10
H04W 72/04
H04W 4/06
(11) EP3603163
(21) EP17794442.8
(22) 25.10.2017
(54) TRANSITIONING TO CELL-DCH RRC STATE TO REPORT APPLICATION-LEVEL MEASUREMENT
(73) Telefonaktiebolaget LM Ericsson (Publ)
(72) KWONG, Waikwok
EKLÖF, Cecilia
(74) ir. A. Blokland c.s.
(31) 201762476576 P
(32) 24.03.2017
(33) United States of America
(47) 08.12.2021

(51) H04W 28/12
H04W 28/06
H04W 76/15
H04W 36/06
H04L 12/891
(11) EP3297321
(21) EP16796184.6
(22) 23.03.2016
(54) USER EQUIPMENT, MOBILE COMMUNICATION SYSTEM, AND COMMUNICATION METHOD
(73) NTT DOCOMO, INC.
(72) HAPSARI, Wuri Andarmawanti
TAKAHASHI, Hideaki
UCHINO, Tooru
(74) dr. ir. F.M. van Bouwelen
(31) 2015100563
(32) 15.05.2015
(33) Japan
(47) 24.11.2021

(51) H04W 36/00
(11) EP3577946
(21) EP18701063.2
(22) 03.01.2018
(54) AUTOMATIC NEIGHBOUR RELATION (ANR) BASED ON DETECTION AND REPORTING OF UNKNOWN CELL BASED ON MEASUREMENT TRIGGERING CRITERION
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) DA SILVA, Icaro L. J.
RAMACHANDRA, Pradeepa
(74) ir. A. Blokland c.s.
(31) 201762454395 P
(32) 03.02.2017
(33) United States of America
(47) 13.10.2021

(51) H04W 36/00
H04W 36/08
(11) EP3607772
(21) EP18799245.8
(22) 08.05.2018
(54) METHOD AND APPARATUS FOR SUPPORTING SESSION CONTINUITY FOR 5G CELLULAR NETWORK
(73) Samsung Electronics Co., Ltd.
(72) BAE, Beomsik
LEE, Jinsung
LEE, Hyungho
KWEON, Kisuk
LEE, Jicheol
MOON, Sangjun
PARK, Jungshin
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 20170057475
(32) 08.05.2017
(33) Korea (Republic)
(47) 24.11.2021

(51) H04W 36/02
H04W 92/20
(11) EP3614735
(21) EP18794755.1
(22) 04.05.2018
(54) DATA TRANSMISSION METHODS AND DEVICES
(73) Huawei Technologies Co., Ltd.
(72) LIAO, Zilong
TAN, Wei
JIN, Yinghao
(74) ir. W.J.J.M. Kempes
(31) 201710323435
(32) 05.05.2017
(33) China
(47) 08.12.2021

(51) H04W 36/14
H04W 36/00
H04W 12/04
(11) EP3662700
(21) EP18842954.2
(22) 13.08.2018
(54) METHOD AND SYSTEM FOR PERFORMING HANDOVER IN WIRELESS COMMUNICATION NETWORK
(73) Samsung Electronics Co., Ltd.
(72) INGALE, Mangesh Abhimanyu
AGIWAL, Anil
SHARMA, Neha
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201741028700
201741028700
(32) 09.08.2018
11.08.2017
(33) India
India
(47) 27.10.2021

(51) H04W 36/16
H04W 36/08
H04W 16/32
H04W 88/08
(11) EP3573369
(21) EP18760602.5
(22) 28.02.2018
(54) HANDOVER METHOD AND APPARATUS IN WIRELESS COMMUNICATION SYSTEM SUPPORTING EICIC FUNCTION
(73) Samsung Electronics Co., Ltd.
(72) KIM, Wook
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 20170026163
(32) 28.02.2017
(33) Korea (Republic)
(47) 24.11.2021

(51) H04W 48/02
H04W 88/12
(11) EP3286877
(21) EP16783889.5
(22) 21.04.2016
(54) SIM WHITELISTING AND MULTI-OPERATOR CORE NETWORKS
(73) Parallel Wireless, Inc.
(72) PAPA, Steven
MEHTA, Pratik
RAVAL, Kartik
MISHRA, Rajesh
AGARWAL, Kaitki
DONEPUDI, Sridhar
CAO, Yang
(74) ir. J.D. de Zeeuw
(31) 201562150717 P
(32) 21.04.2015
(33) United States of America
(47) 22.09.2021

(51) H04W 48/16
H04W 52/02
H04W 84/04
(11) EP3429275
(21) EP18192759.1
(22) 29.01.2015
(54) ASSISTING MEASUREMENTS IN SMALL CELLS WITH AN ON/OFF SCHEME
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) KAZMI, Muhammad
LARSSON, Daniel
BEHRAVAN, Ali
(74) ir. A. Blokland c.s.
(31) 201461933915 P
(32) 31.01.2014
(33) United States of America
(47) 10.11.2021

(51) H04W 52/02
H04W 28/02
(11) EP3641409
(21) EP19203820.6
(22) 17.10.2019
(54) ENERGY CONSERVATION MANAGEMENT METHOD, APPARATUS, AND STORAGE MEDIUM
(73) Huawei Technologies Co. Ltd.
(72) SUN, Bing
WANG, Jianbing
ZHUANG, Yan
(74) dr. W.A.H.M. Van Borm
(31) 201811210485
(32) 17.10.2018
(33) China
(47) 08.12.2021

(51) H04W 52/02
H04W 48/16
H04W 48/08
(11) EP3634046
(21) EP19822416.4
(22) 02.05.2019
(54) METHOD AND APPARATUS FOR RECEIVING WUR DISCOVERY FRAME IN WIRELESS LAN SYSTEM
(73) LG Electronics Inc.
(72) KIM, Jeongki
CHOI, Jinsoo

KIM, Suhwook
RYU, Kiseon
SONG, Taewon
(74) J.M.H. Duyver lic.
(31) 20180073215
20180072394
(32) 26.06.2018
22.06.2018
(33) Korea (Republic)
Korea (Republic)
(47) 24.11.2021

(51) H04W 52/36
H04W 24/10
(11) EP3501213
(21) EP17841723.4
(22) 18.08.2017
(54) POWER HEADROOM REPORT
(73) Samsung Electronics Co., Ltd.
(72) XIONG, Qi
FU, Jingxing
YU, Bin
WANG, Yi
QIAN, Chen
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201710623798
201710451999
201710178670
201610697340
(32) 27.07.2017
15.06.2017
23.03.2017
19.08.2016
(33) China
China
China
China
(47) 20.10.2021

(51) H04W 52/54
(11) EP2404469
(21) EP10748985.8
(22) 05.03.2010
(54) METHOD AND APPARATUS FOR POWER CONTROL IN A WIRELESS COMMUNICATION SYSTEM
(73) Samsung Electronics Co., Ltd.
(72) YOU, Hwa-Sun
CHOI, Ho-Kyu
YU, Hyun-Kyu
ROH, Won-Il
PARK, Jeong-Ho
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 20100019733
20100001991
20090019409
(32) 05.03.2010
08.01.2010
06.03.2009
(33) Korea (Republic)
Korea (Republic)
Korea (Republic)
(47) 27.10.2021

(51) H04W 56/00
H04W 8/00
(11) EP3292718
(21) EP16724712.1
(22) 04.05.2016
(54) METHOD AND APPARATUS FOR TRANSMITTING DEVICE-TO-DEVICE (D2D) SYNCHRONIZATION SIGNALS
(73) Telefonaktiebolaget LM Ericsson (publ)
(74) ir. A. Blokland c.s.
(31) 201615143812
201562156662 P
(32) 02.05.2016
04.05.2015
(33) United States of America
United States of America
(47) 03.11.2021

(51) H04W 68/00
H04W 76/28
H04W 88/06
(11) EP2818012
(21) EP13705914.3
(22) 14.02.2013
(54) METHOD FOR PAGING A USER EQUIPMENT FROM A FIRST PUBLIC LAND MOBILE NETWORK AND FROM A SECOND PUBLIC LAND MOBILE NETWORK, USER EQUIPMENT, PROGRAM AND COMPUTER PROGRAM PRODUCT
(73) Deutsche Telekom AG
(72) KLATT, Axel
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 12001239
(32) 24.02.2012
(33) European Patent Office (EPO)
(47) 22.09.2021

(51) H04W 72/04
(11) EP3242518
(21) EP15879342.2
(22) 27.01.2015
(54) METHOD AND APPARATUS FOR TRANSMITTING PUBLIC INFORMATION
(73) Huawei Technologies Co., Ltd.
(72) XUE, Lixia
SUN, Jingyuan
(74) ir. W.J.J.M. Kempes
(47) 27.10.2021

(51) H04W 72/04
H04B 7/0413
H04W 24/10
H04L 5/00
(11) EP3506704
(21) EP18215731.3
(22) 28.11.2013
(54) METHOD AND APPARATUS FOR PERFORMING COMMUNICATION IN A WIRELESS COMMUNICATION SYSTEM
(73) Samsung Electronics Co., Ltd.
(72) Jeong, Kyeong-In
van Lieshout, Gert Jan
Kim, Soeng-Hun
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 20130037375
20130009091
20130005876
20120136411
(32) 05.04.2013
28.01.2013
18.01.2013
28.11.2012
(33) Korea (Republic)
Korea (Republic)
Korea (Republic)
Korea (Republic)
(47) 17.11.2021

(51) H04W 72/12
(11) EP3609274
(21) EP19169414.0
(22) 15.03.2016
(54) UPLINK INFORMATION SENDING METHOD, SCHEDULING METHOD AND CORRESPONDING APPARATUSES
(73) Huawei Technologies Co., Ltd.
(72) HUA, Meng
ZHOU, Han
WU, Yiling
TIE, Xiaolei
WU, Gengshi
(74) ir. W.J.J.M. Kempes
(31) 201610084148
PCT/CN2015/076543
(32) 06.02.2016
14.04.2015
(33) China
World Intellectual Property Office (WIPO)
(47) 27.10.2021

(51) H04W 72/12
H04W 72/14
H04L 5/00
H04L 27/00
(11) EP3251452
(21) EP15880302.3
(22) 29.12.2015
(54) UPLINK CONTROL INFORMATION TRANSMITTING METHOD AND APPARATUS
(73) Samsung Electronics Co., Ltd.
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201510283727
201510202732
201510047588
(32) 28.05.2015
24.04.2015
29.01.2015
(33) China
China
China
(47) 03.11.2021

(51) H04W 74/00
H04W 72/04
H04B 7/08
H04B 7/0408
H04B 7/06
H04L 5/00
(11) EP3462798
(21) EP18188406.5
(22) 27.08.2014
(54) SYSTEM AND METHOD FOR BEAM-BASED PHYSICAL RANDOM-ACCESS
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) Zhang, Qiang
Parkvall, Stefan
Furuskog, Johan
Andersson, Håkan
Sahlin, Henrik
Frenne, Mattias
(74) ir. A. Blokland c.s.
(31) 201461970145 P

(32) 25.03.2014
(33) United States of America
(47) 10.11.2021

(51) H04W 74/00
H04W 74/08
H04L 1/16
H04W 84/12
(11) EP3482598
(21) EP17824728.4
(22) 29.06.2017
(54) RESOLVING ACKNOWLEDGEMENTS BETWEEN ASSOCIATED AND UNASSOCIATED STATIONS
(73) Intel Corporation
(72) GHOSH, Chittabrata
STACEY, Robert J.
CARIOU, Laurent
(74) ir. W.J.J.M. Kempes
(31) 201662359357 P
(32) 07.07.2016
(33) United States of America
(47) 24.11.2021

(51) H04W 74/00
H04W 74/08
H04W 72/12
(11) EP3777430
(21) EP19849609.3
(22) 07.08.2019
(54) TERMINAL, BASE STATION AND CORRESPONDING METHODS FOR DETERMINING CHANNEL ACCESS TYPE IN WIRELESS COMMUNICATION SYSTEM
(73) Samsung Electronics Co., Ltd.
(72) AGIWAL, Anil
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201862718688 P
(32) 14.08.2018
(33) United States of America
(47) 17.11.2021

(51) H04W 74/08
(11) EP3595397
(21) EP19175458.9
(22) 12.06.2017
(54) LISTEN BEFORE TALK PROCEDURE IN A WIRELESS DEVICE AND WIRELESS DEVICE
(73) Beijing Xiaomi Mobile Software Co., Ltd.
(72) DINAN, Esmael Hejazi
(74) J.M.H. Duyver lic.
(31) 201662348869 P
(32) 11.06.2016
(33) United States of America
(47) 20.10.2021

(51) H04W 74/08
H04L 1/08
(11) EP3527031
(21) EP17784151.7
(22) 29.09.2017
(54) RACH PROCEDURES USING MULTIPLE PRACH TRANSMISSIONS
(73) QUALCOMM Incorporated
(72) XU, Hao
GAAL, Peter
CHEN, Wanshi
LY, Hung
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 201715614320
201662408453 P
(32) 05.06.2017
14.10.2016
(33) United States of America
United States of America
(47) 24.11.2021

(51) H04W 74/08
H04W 76/10
H04W 76/27
(11) EP3549384
(21) EP18700024.5
(22) 03.01.2018
(54) COMMUNICATIONS DEVICE, INFRASTRUCTURE EQUIPMENT AND METHODS
(73) Sony Group Corporation
(72) MARTIN, Brian Alexander
SHARMA, Vivek
WAKABAYASHI, Hideji
BERGGREN, Anders
WEI, Yuxin
(74) ir. W.J.J.M. Kempes
(31) 17150480
(32) 05.01.2017
(33) European Patent Office (EPO)
(47) 15.12.2021

(51) H04W 76/00
(11) EP3777449
(21) EP19722961.0
(22) 04.04.2019
(54) FIRST UNIT, SECOND UNIT AND METHODS IN A WIRELESS COMMUNICATIONS NETWORK
(73) TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
(72) SKARVE, Martin
CENTONZA, Angelo
FIORANI, Matteo
JONSSON, Anders
(74) ir. A. Blokland c.s.
(31) 201862653597 P
(32) 06.04.2018
(33) United States of America
(47) 08.12.2021

(51) H04W 76/14
H04B 1/713
H04L 5/00
H04L 27/26
H04W 56/00
H04W 92/18
H04W 72/04
(11) EP3793321
(21) EP20202795.9
(22) 14.10.2015
(54) METHOD FOR TRANSMITTING A DEVICE TO DEVICE COMMUNICATION CHANNEL IN WIRELESS COMMUNICATION SYSTEM
(73) INNOSKY
SK TELECOM CO., LTD.
(72) YOON, Sung Jun
(74) J.M.H. Duyver lic.
(31) 20140161232
20140154807
(32) 18.11.2014
07.11.2014
(33) Korea (Republic)
Korea (Republic)
(47) 17.11.2021

(51) H04W 76/19
H04W 76/25
H04W 88/02
(11) EP3791685
(21) EP19724267.0
(22) 06.05.2019
(54) METHOD FOR HANDLING PERIODIC RADIO ACCESS NETWORK NOTIFICATION AREA (RNA) UPDATE CONFIGURATION UPON REJECT
(73) TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
(72) DA SILVA, Icaro L. J.
MILDH, Gunnar
(74) ir. A. Blokland c.s.
(31) 201862667815 P
(32) 07.05.2018
(33) United States of America
(47) 24.11.2021

(51) H04W 76/28
H04W 52/02
H04W 72/12
(11) EP3589072
(21) EP19191298.9
(22) 11.01.2008
(54) METHOD AND APPARATUS FOR PROCESSING UPLINK DATA BY DRX-MODE TERMINAL IN MOBILE TELECOMMUNICATION SYSTEM
(73) Samsung Electronics Co., Ltd.
(72) Kim, Seong-Hun
van Lieshout, Gert Jan
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 20070079598
20070004232
(32) 08.08.2007
15.01.2007
(33) Korea (Republic)
Korea (Republic)
(47) 24.11.2021

(51) H04W 76/34
H04W 88/14
H04W 92/24
(11) EP3777464
(21) EP18762552.0
(22) 10.09.2018
(54) METHODS, APPARATUSES, SYSTEM AND COMPUTER PROGRAM FOR ACCESSING A SERVICE OUTSIDE A MOBILE COMMUNICATIONS NETWORK IN A MULTIPATH CONNECTION
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) ALVAREZ DOMINGUEZ, Rodrigo
MOLLA, Marc
MUÑOZ DE LA TORRE ALONSO, Miguel, Angel
PEREZ MARTINEZ, Alfonso De Jesus
(74) ir. A. Blokland c.s.
(31) 18382214
(32) 28.03.2018
(33) European Patent Office (EPO)
(47) 10.11.2021

(51) H04W 88/08
(11) EP2792209
(21) EP11805821.3
(22) 15.12.2011

(54) RADIO BASE STATION WITH ASYMMETRIC INTERFACE BETWEEN BASEBAND UNIT AND RF UNIT
(73) Telefonaktiebolaget LM Ericsson (publ)
(72) GÖRANSSON, Bo
ANDERSSON, Håkan
SUNDIN, Tomas
(74) ir. M.F.J.M. Ketelaars c.s.
(47) 20.10.2021

(51) H04W 92/14
H04W 88/18
(11) EP3310124
(21) EP16835228.4
(22) 10.08.2016
(54) BASE STATION, MANAGEMENT DEVICE, AND CONNECTION METHOD
(73) NTT DOCOMO, INC.
(72) HAPSARI, Wuri Andarmawanti
OHTAKE, Masaaki
KAWABE, Yasuhiro
(74) dr. ir. F.M. van Bouwelen
(31) 2015159996
(32) 13.08.2015
(33) Japan
(47) 15.12.2021

(51) H05B 47/10
(11) EP3228158
(21) EP15841081.1
(22) 04.12.2015
(54) POWER OPTIMIZATION FOR BATTERY POWERED STREET LIGHTING SYSTEM
(73) Gemex Consultancy B.V.
(72) ROOYMANS, Johannes Otto
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 2013929
(32) 05.12.2014
(33) Netherlands
(47) 17.11.2021

(51) H05B 47/185
H05B 47/21
H05B 47/14
H02J 5/00
H02J 1/12
(11) EP3361834
(21) EP18155102.9
(22) 05.02.2018
(54) EXTRA-LOW VOLTAGE OUTDOOR LIGHTING SYSTEM, LUMINAIRE, POWER SUPPLY AND ASSEMBLY AND METHOD OF PROVIDING OUTDOOR ILLUMINATION
(73) In-Lite Design B.V.
(72) SMETS, Frank Gerardus Maria
VAN KLEEF, Thomas Aimé Adriaan
VREEKEN, Roelof
VREEKEN, Adriaan Peter
(74) mr. ir. J. van Breda c.s.
(31) 2018358
(32) 13.02.2017
(33) Netherlands
(47) 08.12.2021

(51) H05H 1/48
(11) EP3228161
(21) EP14907576.4
(22) 05.12.2014
(54) PLASMA SOURCE UTILIZING A MACRO-PARTICLE REDUCTION COATING AND METHOD OF USING A PLASMA SOURCE UTILIZING A MACRO-PARTICLE REDUCTION COATING FOR DEPOSITION OF THIN FILM COATINGS AND MODIFICATION OF SURFACES
(73) AGC Flat Glass North America, Inc.
AGC Glass Europe SA
AGC Inc.
(74) ir. M.F.J.M. Ketelaars c.s.
(47) 03.11.2021

(51) H05K 7/20
(11) EP3703477
(21) EP19315014.1
(22) 28.02.2019
(54) HEAT EXTRACTION SYSTEM FOR A COMPUTING EQUIPMENT ENCLOSURE
(73) OVH
(72) KLABA, Henryk
CHEHADE, Ali
(74) J.M.H. Duyver lic.
(47) 17.11.2021

(51) H05K 7/20
C08J 5/04
H01L 23/373
H01L 23/42
(11) EP3668290
(21) EP18845001.9
(22) 27.07.2018
(54) HEAT DISSIPATION SHEET HAVING HIGH THERMAL CONDUCTIVITY AND HIGH ELECTRIC INSULATION PROPERTY
(73) Denka Company Limited
(72) TANIGUCHI,Yoshitaka
KANEKO,Masahide
YAMAGATA,Toshitaka
WADA,Kosuke
(74) ir. M.F.J.M. Ketelaars c.s.
(31) 2017156016
(32) 10.08.2017
(33) Japan
(47) 27.10.2021

(51) H05K 13/02
B23P 19/00
B23P 21/00
B65G 47/58
(11) EP3468329
(21) EP16903952.6
(22) 31.05.2016
(54) COMPONENT SUPPLY APPARATUS
(73) Fuji Corporation
(72) SUZUKI, Hiromi
SUGIHARA, Akio
(74) ir. M.F.J.M. Ketelaars c.s.
(47) 27.10.2021

EP4

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

(51) A61K 31/496
A61K 9/10
A61K 47/02
A61K 47/08
A61K 47/22
A61K 47/32
A61K 47/34
A61K 9/00
A61K 47/18
A61K 47/26
A61K 47/10
(11) EP2868318
(21) EP13781458.8
(22) 23.04.2013
(54) INJECTABLE FORMULATION
(73) OTSUKA PHARMACEUTICAL CO., LTD.
(74) ir. W.J.J.M. Kempes
(72) SATO, Tetsuya
MINOWA, Takuya
TOYOFUKU, Hidekazu
HOSHIKA, Yusuke
(31) 201361791896 P
201261636932 P
(32) 15.03.2013
23.04.2012
(33) United States of America
United States of America
(47) 06.03.2019

(51) A61M 25/00
A61M 25/10
A61M 25/01
(11) EP2869882
(21) EP13732718.5
(22) 10.06.2013
(54) CATHETER WITH A DUAL LUMEN MONOLITHIC SHAFT
(73) ABBOTT CARDIOVASCULAR SYSTEMS INC.
(74) ir. F.A. Geurts c.s.
(72) LIN, Tung-liang
QIU, Hua
(31) 201213542129
(32) 05.07.2012
(33) United States of America
(47) 28.02.2018

(51) B44C 5/06
A41G 1/00
B29C 47/88
B29C 47/00
(11) EP2301763
(21) EP10180635.4
(22) 28.09.2010
(54) Method for producing imitation branches
(73) Solidor bvba
(72) Dejans, Olivier
Dejans, Emmanuel
(31) 200900597
(32) 29.09.2009
(33) Belgium
(47) 13.11.2013

(51) B65B 57/00
B65B 9/04
B65B 25/06
B65G 43/00
(11) EP3133022
(21) EP16188308.7
(22) 05.03.2013
(54) PACKAGING LINE
(73) GEA Food Solutions Germany GmbH
(74) ir. W.J.J.M. Kempes
(72) NAEHER, Tilmann
REIN, Rolf
DA COSTA MOREIRA, Nelson
(31) 102012004341
(32) 07.03.2012
(33) Germany
(47) 04.07.2018

(51) C07D 401/12
C07D 231/56
C07D 209/40
C07D 209/42
C07D 209/48
C07D 487/04
C07D 471/04
C07D 403/12
C07D 403/04
C07D 403/06
A61K 31/416
A61K 31/4439
A61K 31/404
A61K 31/4035
A61P 37/00
A61P 37/06
A61P 25/00
A61P 25/28
A61P 13/12
A61P 9/00
A61P 21/04
C07D 401/04
C07D 401/06
C07D 401/14
C07D 405/12
C07D 209/12
A61P 13/00
(11) EP3411411
(21) EP17748044.9
(22) 01.02.2017
(54) 1H-INDAZOLE-3-CARBOXAMIDE DERIVATIVES AND RELATED COMPOUNDS AS FACTOR D INHIBITORS FOR TREATING DISEASES CHARACTERIZED BY ABERRANT COMPLEMENT SYSTEM ACTIVITY, SUCH AS E.G. IMMUNOLOGICAL DISORDERS
(73) Biocryst Pharmaceuticals, Inc.
(74) ir. W.J.J.M. Kempes
(72) VOGETI, Lakshminarayana
ZHANG, Weihe
BABU, Yarlagadda, S.
KOTIAN, Pravin, L.
RAMAN, Krishnan
WU, Minwan
CHINTAREDDY, Venkat, R.
(31) 201662289653 P
(32) 01.02.2016
(33) United States of America
(47) 19.05.2021

(51) C10M 143/10
C10M 143/08
C10M 143/02
C10N 10/04
C10N 20/00
C10N 20/02
C10N 30/02
C10N 40/25
C10N 30/08
C10N 30/10
(11) EP2518135
(21) EP10839048.5
(22) 08.10.2010
(54) SYSTEM LUBRICANT OIL COMPOSITION FOR CROSSHEAD-TYPE DIESEL ENGINE
(73) JX Nippon Oil & Energy Corporation
(72) TAKESHIMA, Shigeki
(31) 2009292337
2009292336
(32) 24.12.2009
24.12.2009
(33) Japan
Japan
(47) 07.01.2015

(51) E03F 5/04
(11) EP2243886
(21) EP10159750.8
(22) 13.04.2010
(54) Height adjustment for tile frame
(73) Easy Sanitary Solutions B.V.
(74) J.M.H. Duyver Iic.
(72) Keizers, Jurgen Hendrik Peter Joseph
(31) 2002767
(32) 20.04.2009
(33) Netherlands
(47) 30.05.2018

(51) G01N 33/50
(11) EP3155422
(21) EP15727685.8
(22) 12.06.2015
(54) UNMASKING ENDOTOXINS IN SOLUTION
(73) Hyglos Invest GmbH
(74) drs. C.M.A. Quintelier
(72) GRALLERT, Holger
REICH, Johannes
(31) 201462011818 P
14172151
(32) 13.06.2014
12.06.2014

(33) United States of America
European Patent Office (EPO)
(47) 01.05.2019

(51) G01N 33/50
G01N 33/53
G01N 33/92
(11) EP2955518
(21) EP14172151.4
(22) 12.06.2014
(54) Unmasking endotoxins in solution
(73) Hyglos Invest GmbH
(74) ir. M.F.J.M. Ketelaars c.s.
(72) GRALLERT, Holger
REICH, Johannes
(47) 15.05.2019

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) A41D 13/018
A41D 13/05
(11) EP2849591
(21) EP13730361.6
(22) 14.05.2013
(54) STANDALONE WEARABLE PROTECTOR AND PROTECTIVE CLOTHING ASSEMBLY
(73) ALPINESTARS RESEARCH S.P.A.
(72) MAZZAROLO, Giovanni
SIGNORELLI, Marco
(74) ir. H.A. Witmans c.s.
(31) TV20120084
(32) 15.05.2012
(33) Italy
(47) 06.01.2016

(51) A63G 7/00
(11) EP3216503
(21) EP16159842.0
(22) 11.03.2016
(54) ROLLER COASTER VEHICLE
(73) Rothe, Roman
Walser, Willy
(72) Walser, Willy
Rothe, Roman
(74) ir. W.J.J.M. Kempes
(47) 20.02.2019

(51) B01D 15/32
B01D 15/14
B01D 15/36
C07K 1/22
C07K 16/06
B01D 15/38
C07K 16/00
C07K 1/16
C07K 1/18
B01D 15/42
(11) EP2773438
(21) EP12845437.8
(22) 02.11.2012
(54) OVERLOAD AND ELUTE CHROMATOGRAPHY
(73) F.Hoffmann-La Roche AG
(72) MEHTA, Amit
NADARAJAH, Deepa
(74) drs. C.M.A. Quintelier
(31) 201161554898 P
(32) 02.11.2011
(33) United States of America
(47) 14.06.2017

(51) B62D 59/04
(11) EP2455276
(21) EP12154682.4
(22) 24.06.2009
(54) Auxiliary drive
(73) Alois Kober GmbH
(72) Eckle, Volker
Wilhelm Dr., Klaus
Hartleff, Christian
Müller, Thomas
Zacharias, Georg
(74) ir. W.J.J.M. Kempes
(31) 202009005524 U
202009001675 U
202008008429 U
(32) 11.04.2009
10.02.2009
25.06.2008
(33) Germany
Germany
Germany
(47) 18.07.2018

(51) C07C 51/12
C07C 53/08
C07B 61/00
(11) EP2653459
(21) EP11849332.9
(22) 01.12.2011
(54) ACETIC ACID PRODUCTION METHOD
(73) Daicel Corporation
(72) SAITO, Ryuji
MIURA, Hiroyuki
SHIMIZU, Masahiko
(74) ir. J.C. Volmer c.s.
(31) 2010279797
(32) 15.12.2010
(33) Japan
(47) 22.08.2018

(51) C07K 14/11
C12N 15/86
(11) EP2998315
(21) EP15159486.8
(22) 02.04.2010
(54) NEWCASTLE DISEASE VIRUS VECTORED AVIAN VACCINES
(73) Boehringer Ingelheim Animal Health USA Inc.
(74) ir. H.A. Witmans c.s.
(31) 166481 P
(32) 03.04.2009
(33) United States of America
(47) 31.10.2018

(51) E01C 9/00
E01C 13/04
(11) EP2019169
(21) EP08009090.5
(22) 16.05.2008
(54) Floor covering element, floor covering grid and assembly of floor covering grids, and method for producing a floor covering grid
(73) Conradi + Kaiser GmbH
(72) Kaiser, Klaus
(74) ir. H.A. Witmans c.s.
(31) 102007035390
(32) 26.07.2007
(33) Germany
(47) 15.02.2017

(51) F28D 9/00
F28F 3/02
F28F 3/08
(11) EP2257757
(21) EP08741887.7
(22) 04.04.2008
(54) A PLATE HEAT EXCHANGER
(73) Alfa Laval Corporate AB
(72) ANDREASSON, Fredrik
BERMHULT, Rolf
LARSSON, Håkan
SVENSSON, Magnus
CHRISTENSEN, Rolf
(74) ir. H.A. Witmans c.s.
(47) 01.07.2015

SPC

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

(21) 300555
(22) 29.11.2012
(11) 300555
(73) Sanofi Pasteur Inc.
Sanofi Pasteur Inc.
(74) ir. M.F.J.M. Ketelaars c.s.
ir. M.F.J.M. Ketelaars c.s.
(68) EP1355673
(54) MULTIVALENT MENINGOCOCCAL POLYSACCHARIDE-PROTEIN CONJUGATE VACCINE.
(94) 16.09.2025
(95) Combinatie van meningokokkaal groep A oligosacharide geconjugeerd met Corynebacterium diptherie</ em> CRM197 eiwit, meningokokkaal groep C oligosacharide geconjugeerd met Corynebacterium diptherie CRM197 eiwit, meningokokkaal groep W135 oligosacharide geconjugeerd met Corynebacterium diptherie CRM197 eiwit en meningokokkaal groep Y oligosacharide geconjugeerd met Corynebacterium diptherie CRM197 eiwit.
(93) EU/1/10/614/001 17.03.2010
(47) 13.08.2013

(21) 301159
(22) 19.01.2022
(11) 301159
(74) ir. H.A. Witmans c.s.
(68) EP2663577
(54) ANTIBODY BINDING IL-17A AND IL-17F
(94) 1686
(95) bimekizumab
(93) EU/1/21/1575 23.08.2021

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) EP2213900
(51) F16D 55/226
F16D 65/092
F16D 65/097
(00) 12/21
24.03.2021

(11) EP2234617
(51) A61K 31/519
A61P 25/18
(00) 13/21
31.03.2021

(11) EP2670577
(51) B29C 43/22
B29C 43/24
B29C 48/08
B29C 48/88
B29C 48/90
B29C 48/92
(00) 14/21
07.04.2021

(11) EP2682990
(51) H01L 31/0224
H01L 31/072
H01L 31/0747
(00) 12/21
24.03.2021

(11) EP2722456
(51) E04C 2/52
E04C 2/54
F24F 3/00
F24F 3/16
(00) 14/21
07.04.2021

(11) EP2748517
(51) F21S 8/08
F21W 131/103
(00) 11/21
17.03.2021

(11) EP2922508
(51) A61F 5/445
A61F 5/448
(00) 12/21
24.03.2021

(11) EP2956994
(51) H01R 12/51
H01R 4/48
H01R 11/09
(00) 14/21
07.04.2021

(11) EP2981593
(51) C10G 1/10
C10G 19/00
C10G 19/02
(00) 12/21
24.03.2021

(11) EP3122173
(51) A01J 5/007
A01J 5/01
A01K 1/00
A01K 1/12
A01K 11/00
A01K 15/02
A01K 29/00
(00) 13/21
31.03.2021

(11) EP3171708
(51) A23L 5/00
(00) 13/21
31.03.2021

(11) EP3173071
(51) A61K 9/00
A61K 31/439
A61K 47/40
A61P 1/08
A61K 47/10
(00) 12/21
24.03.2021

(11) EP3205550
(51) B61G 7/10
B61G 9/06
(00) 14/21
07.04.2021

(11) EP3214313
(51) F04B 39/12
F04B 41/06
F04C 23/00
F04C 29/12
F04F 5/46
(00) 12/21
24.03.2021

(11) EP3240259
(51) H04L 29/06
H04L 29/08
(00) 12/21
24.03.2021

(11) EP3246017
(51) A61K 9/08
A61P 3/14
A61P 5/00
A61K 38/08
(00) 12/21
24.03.2021

(11) EP3256569
(51) A61P 11/00
C12N 5/10
C12N 5/0786
C12N 5/0789
A61K 35/15
(00) 12/21
24.03.2021

(11) EP3301750
(51) H01P 1/02
H01P 1/04
(00) 12/21
24.03.2021

(11) EP3325248
(51) B29B 7/74
B29B 7/80
B29K 21/00
B29C 48/03
B29C 48/25
B29C 48/265
B29C 48/27
(00) 13/21
31.03.2021

(11) EP3325592
(51) C11D 1/66
C11D 3/33
C11D 11/00
C11D 17/00
(00) 12/21
24.03.2021

(11) EP3345785
(51) A47C 17/80
B60N 2/34
B60P 3/32
(00) 36/19
04.09.2019

(11) EP3363985
(51) E06B 9/17
E06B 9/174
E06B 9/50
E06B 9/58
(00) 30/21
28.07.2021

(11) EP3370674
(51) A61F 13/551
(00) 12/21
24.03.2021

(11) EP3454422
(51) H01R 4/48
H01R 9/26
(00) 11/21
17.03.2021

(11) EP3457873
(51) A24C 5/32
A24C 5/47
(00) 13/21
31.03.2021

(11) EP3490893
(51) B65B 69/00
(00) 12/21
24.03.2021

(11) EP3494201
(51) C11B 3/00
C11B 3/04
(00) 13/21
31.03.2021

(11) EP3505751
(51) B29C 70/44
B29C 70/84
B29C 70/86
B29L 31/08

F03D 1/06
B29D 99/00
(00) 12/21
24.03.2021

(11) EP3505830
(51) F24C 15/20
(00) 12/21
24.03.2021

(11) EP3523220
(51) B65D 85/804
(00) 12/21
24.03.2021

(11) EP3524951
(51) F24D 19/10
G01K 17/08
G05D 23/19
(00) 12/21
24.03.2021

(11) EP3533309
(51) A01C 1/02
A01C 7/04
A01G 7/00
A01G 9/08
A01G 9/029
(00) 14/21
07.04.2021

(11) EP3538508
(51) B01J 31/16
B01J 31/22
C07B 37/08
C07C 67/475
C07C 69/145
C07C 69/157
C07F 3/06
C07F 15/00
(00) 15/21
14.04.2021

(11) EP3574371
(51) G02C 7/02
G02C 13/00
(00) 12/21
24.03.2021

(11) EP3595863
(51) B29C 55/26
B29K 23/00
F16L 9/12
(00) 12/21
24.03.2021

(11) EP3598848
(51) H05B 3/74
(00) 13/21
31.03.2021

(11) EP3608140
(51) B60K 1/00
B60K 17/04
B60K 17/12
B60K 17/16
H02K 7/116
(00) 12/21
24.03.2021

(11) EP3622132
(51) B66C 23/00
E04G 21/04
(00) 12/21
24.03.2021

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) 1039869
(51) G07F 19/00
G06Q 20/00
(00) 02/17
11.01.2017
(00) 24.01.2022
(00) Positive

(11) 300890
(00) 04/21
27.01.2021
(00) 24.01.2022
(00) Negative

(11) 300904
(00) 49/20
02.12.2020
(00) 24.01.2022
(00) Negative

(11) 300910
(00) 49/20
02.12.2020
(00) 24.01.2022
(00) Negative

(11) 300972
(00) 49/20
02.12.2020
(00) 24.01.2022
(00) Negative

(11) EP2234617
(51) A61K 31/519
A61P 25/18
(00) 18/21
12.05.2021

(11) EP2679812
(51) F03D 7/02
F03D 7/04
(00) 47/15
19.11.2015

(11) EP2781774
(51) D01H 4/12
F16C 32/04

(11) EP2818050
(51) A22C 21/00
(00) 03/17
18.01.2017

(11) EP2928496
(51) C12N 9/22
C12N 15/10
C12N 15/63
(00) 01/20
08.01.2020

(11) EP3138910
(51) C12N 9/22
C12N 15/10
C12N 15/63
(00) 07/18
07.02.2018

(11) EP3138911
(51) C12N 9/22
C12N 15/10
C12N 15/63
(00) 03/19
16.01.2019

(11) EP3197206
(51) H04L 1/00
H04W 28/06
H04W 28/18
H04W 72/04
H04W 80/00
H04L 12/801
H04L 12/861
H04W 76/20

(11) EP3211135
(51) D21F 5/00
D21G 9/00
D21H 25/00
D21H 27/10
(00) 27/19
03.07.2019

(11) EP3267722
(51) H04L 1/00
H04W 28/06
H04W 28/18
H04W 72/04
H04W 80/00
H04L 12/801
H04L 12/861
H04W 76/20
(00) 06/20
05.02.2020

(11) EP3300421
(51) H04L 1/18
H04W 28/02
H04W 80/02
(00) 26/20
24.06.2020

(11) EP3313747
(51) B65D 51/00

(11) EP3361662
(51) H04L 1/16
H04L 1/18
H04L 5/00
H04L 5/14
(00) 22/21
02.06.2021

(11) EP3459356
(51) A23J 1/06
A23J 3/12
A23L 3/12
A61K 8/98
A61Q 19/00
B02C 13/00
A23K 10/24

MED

Overige mededelingen.
Contains data concerning other communications.

(11) 2015179
(00) 09.12.2021
(51) F16B 7/04
(00) Removed

(11) 2015185
(00) 09.12.2021
(51) A61B 1/005
A61B 17/29
(00) Removed

(11) 2016900
(00) 09.12.2021
(51) A61B 1/00
A61B 1/005
A61B 1/008
A61M 25/01
(00) Removed

(11) 2023458
(00) 22.12.2021
(51) A01M 1/00
A01M 1/20
A01M 3/00
(00) Total - Renunciation

(11) 2028959
(00) 15.12.2021
(51) A01G 17/00
(00) Based on request sender

(11) 2028974
(00) 15.12.2021
(51) A01G 17/00
(00) Based on request sender

(11) 2029040
(00) 15.12.2021
(51) A01C 21/00
A01C 1/00
A01G 17/00
A01C 1/08
A01G 13/00
C05G 3/60
C05G 3/80
A01G 22/25
(00) Based on request sender

(11) 2029041
(00) 15.12.2021
(51) A01B 79/02
A01C 21/00
A01G 13/00
A01G 17/00
A01G 20/00
A01G 22/20
A01G 22/40
C05G 3/60
C05G 3/80
(00) Based on request sender

(11) 2029058
(00) 15.12.2021
(51) A01B 79/02
A01G 13/00
A01G 17/00
A01G 22/25
(00) Based on request sender

(11) 2029117
(00) 15.12.2021
(51) A01C 21/00
A01G 17/00
A01G 13/00
A01N 25/08
A01N 43/12
A01N 45/00
A01N 59/06
A01N 47/18
A01N 59/14
(00) Based on request sender

(11) 2029125
(00) 15.12.2021
(51) A01B 79/02
C05G 3/80
A01G 22/00
A01G 17/00
A01G 2/10
(00) Based on request sender

(11) EP2243886
(51) E03F 5/04

(11) EP2273911
(00) 09.12.2021
(51) A61B 1/00
A61B 1/005
A61B 17/00
A61M 25/00
A61M 25/01
(00) Removed

(11) EP2301763
(51) B44C 5/06
A41G 1/00
B29C 47/88
B29C 47/00

(11) EP2518135
(51) C10M 143/10
C10M 143/08
C10M 143/02
C10N 10/04
C10N 20/00
C10N 20/02
C10N 30/02
C10N 40/25
C10N 30/08
C10N 30/10

(11) EP2762058
(00) 09.12.2021
(51) A61B 1/00
A61B 1/005
A61M 25/00
A61M 25/01
(00) Removed

(11) EP2868318
(51) A61K 31/496
A61K 9/10
A61K 47/02
A61K 47/08
A61K 47/22
A61K 47/32
A61K 47/34
A61K 9/00
A61K 47/18
A61K 47/26
A61K 47/10

(11) EP2869882
(51) A61M 25/00
A61M 25/10
A61M 25/01

(11) EP2886484
(00) 18.05.2020
(51) B65D 43/02
(00) Based on clerical error
(00) Deze akte vervangt RC202000969

(11) EP2955518
(51) G01N 33/50
G01N 33/53
G01N 33/92

(11) EP3071485
(00) 17.12.2021
(51) B65B 31/00
B65B 31/04
B65B 51/30
B65B 9/067
(00) Established

(11) EP3133022
(51) B65B 57/00
B65B 9/04
B65B 25/06
B65G 43/00

(11) EP3155422
(51) G01N 33/50

(11) EP3345016
(51) G01S 17/10
G01S 13/22
G01S 15/10

VRV

Verval of nietigverklaring.
Contains data concerning lapse or annulment.

(11) 1019819
(00) 23.01.2022
(00) Patent Expired

(11) 300332
(00) 24.01.2022
(00) SPC Expired

(11) EP1225090
(00) 21.01.2022
(00) Patent Expired

(11) EP1225335
(00) 22.01.2022
(00) Patent Expired

(11) EP1226749
(00) 22.01.2022
(00) Patent Expired

(11) EP1226881
(00) 25.01.2022
(00) Patent Expired

(11) EP1226922
(00) 24.01.2022
(00) Patent Expired

(11) EP1226934
(00) 24.01.2022
(00) Patent Expired

(11) EP1226980
(00) 22.01.2022
(00) Patent Expired

(11) EP1227207
(00) 23.01.2022
(00) Patent Expired

(11) EP1227215
(00) 27.01.2022
(00) Patent Expired

(11) EP1228692
(00) 24.01.2022
(00) Patent Expired

(11) EP1228986
(00) 23.01.2022
(00) Patent Expired

(11) EP1241136
(00) 24.01.2022
(00) Patent Expired

(11) EP1272720
(00) 23.01.2022
(00) Patent Expired

(11) EP1279735
(00) 24.01.2022
(00) Patent Expired

(11) EP1331754
(00) 24.01.2022
(00) Patent Expired

(11) EP1343542
(00) 25.01.2022
(00) Patent Expired

(11) EP1353696
(00) 25.01.2022
(00) Patent Expired

(11) EP1353716
(00) 25.01.2022
(00) Patent Expired

(11) EP1353759
(00) 23.01.2022
(00) Patent Expired

(11) EP1353941
(00) 22.01.2022
(00) Patent Expired

(11) EP1354070
(00) 21.01.2022
(00) Patent Expired

(11) EP1354120
(00) 23.01.2022
(00) Patent Expired

(11) EP1354122
(00) 24.01.2022
(00) Patent Expired

(11) EP1354167
(00) 24.01.2022
(00) Patent Expired

(11) EP1354370
(00) 22.01.2022
(00) Patent Expired

(11) EP1354443
(00) 23.01.2022
(00) Patent Expired

(11) EP1354494
(00) 22.01.2022
(00) Patent Expired

(11) EP1355644
(00) 25.01.2022
(00) Patent Expired

(11) EP1355673
(00) 22.01.2022
(00) Patent Expired

(11) EP1355716
(00) 25.01.2022
(00) Patent Expired

(11) EP1355957
(00) 22.01.2022
(00) Patent Expired

(11) EP1356122
(00) 25.01.2022
(00) Patent Expired

(11) EP1356626
(00) 24.01.2022
(00) Patent Expired

(11) EP1356667
(00) 24.01.2022
(00) Patent Expired

(11) EP1357932
(00) 21.01.2022
(00) Patent Expired

(11) EP1358043
(00) 25.01.2022
(00) Patent Expired

(11) EP1358192
(00) 21.01.2022
(00) Patent Expired

(11) EP1358248
(00) 24.01.2022
(00) Patent Expired

(11) EP1358441
(00) 24.01.2022
(00) Patent Expired

(11) EP1360235
(00) 25.01.2022
(00) Patent Expired

(11) EP1360778
(00) 23.01.2022
(00) Patent Expired

(11) EP1360820
(00) 23.01.2022
(00) Patent Expired

(11) EP1362487
(00) 25.01.2022
(00) Patent Expired

(11) EP1363960
(00) 24.01.2022
(00) Patent Expired

(11) EP1364065
(00) 25.01.2022
(00) Patent Expired

(11) EP1365866
(00) 22.01.2022
(00) Patent Expired

(11) EP1366255
(00) 23.01.2022
(00) Patent Expired

(11) EP1368185
(00) 24.01.2022
(00) Patent Expired

(11) EP1368428
(00) 24.01.2022
(00) Patent Expired

(11) EP1371206
(00) 24.01.2022
(00) Patent Expired

(11) EP1372712
(00) 23.01.2022
(00) Patent Expired

(11) EP1374466
(00) 23.01.2022
(00) Patent Expired

(11) EP1379918
(00) 23.01.2022
(00) Patent Expired

(11) EP1381325
(00) 24.01.2022
(00) Patent Expired

(11) EP1404483
(00) 22.01.2022
(00) Patent Expired

(11) EP1413331
(00) 25.01.2022
(00) Patent Expired

(11) EP1447505
(00) 23.01.2022
(00) Patent Expired

(11) EP1449998
(00) 23.01.2022

(00) Patent Expired

(11) EP1801997
(00) 23.01.2022
(00) Patent Expired

(11) EP1908539
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP1920597
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP1923071
(00) 23.01.2022
(00) Patent Expired

(11) EP1931306
(00) 31.07.2013
(00) EPV Ceased Effect

(11) EP2011049
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2055761
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2056883
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2083261
(00) 12.10.2021
(00) European Patent got Revoked

(11) EP2145638
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2239776
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2251344
(00) 25.01.2022
(00) Patent Expired

(11) EP2256564
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2272868
(00) 20.04.2021
(00) European Patent got Revoked

(11) EP2332581
(00) 22.01.2022
(00) Patent Expired

(11) EP2343929
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2347972
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2365612
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2378638
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2378643
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2387796
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2396131
(00) 22.09.2021

(00) EPV Ceased Effect

(11) EP2401601
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2403126
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2410815
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2411569
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2415526
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2416239
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2419665
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2423472
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2455211
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2460633
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2469027
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2469436
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2517943
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2518025
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2524347
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2541383
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2546493
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2550474
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2556923
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2563817
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2598206
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2602921
(00) 22.09.2021

(00) EPV Ceased Effect

(11) EP2603373
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2605069
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2608698
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2617687
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2623638
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2624708
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2627459
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2630955
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2632350
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2638893
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2642637
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2649394
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2654614
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2655177
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2657632
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2658089
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2662118
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2663787
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2667829
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2672616
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2677180
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2677517
(00) 22.09.2021

(00) EPV Ceased Effect

(11) EP2678343
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2680379
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2685379
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2685710
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2689829
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2692390
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2696189
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2696704
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2701375
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2703951
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2730238
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2733851
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2733928
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2735682
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2737192
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2742953
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2743027
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2744909
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2747145
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2747585
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2755102
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2757270
(00) 22.09.2021

(00) EPV Ceased Effect

(11) EP2763265
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2764453
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2766980
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2768656
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2770119
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2773928
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2775911
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2777875
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2778307
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2779344
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2782607
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2783518
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2783599
(00) 12.09.2021
(00) European Patent got Revoked

(11) EP2783849
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2788748
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2791719
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2792800
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2799537
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2803977
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2804102
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2806914
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2807458
(00) 22.09.2021

(00) EPV Ceased Effect

(11) EP2808677
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2810419
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2817550
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2818173
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2822777
(00) 21.10.2021
(00) European Patent got Revoked

(11) EP2824069
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2824510
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2825793
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2827754
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2834836
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2838215
(00) 22.09.2021
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(11) EP2845130
(00) 22.09.2021
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(11) EP2851464
(00) 22.09.2021
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(11) EP2855354
(00) 22.09.2021
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(11) EP2864076
(00) 22.09.2021
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(11) EP2864312
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2865446
(00) 22.09.2021
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(00) 22.09.2021
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(11) EP2871560
(00) 22.09.2021
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(11) EP2871716
(00) 22.09.2021
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(11) EP2872595
(00) 18.09.2021
(00) European Patent got Revoked

(11) EP2879080
(00) 22.09.2021

(00) EPV Ceased Effect

(11) EP2879831
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2883688
(00) 22.09.2021
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(11) EP2885701
(00) 22.09.2021
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(11) EP2885712
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(11) EP2889902
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(11) EP2896541
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(11) EP2899429
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(11) EP2902252
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(11) EP2924370
(00) 22.09.2021

(00) EPV Ceased Effect

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(11) EP2927481
(00) 22.09.2021
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(00) 22.09.2021
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(11) EP2931188
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2931348
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2932559
(00) 22.09.2021
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(11) EP2936272
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP2936563
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(11) EP2939914
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(11) EP2943119
(00) 22.09.2021
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(11) EP2951833
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(00) EPV Ceased Effect

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(11) EP2989880
(00) 22.09.2021
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(11) EP2992928
(00) 22.09.2021
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(11) EP2996306
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(11) EP2997636
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(11) EP2999569
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(11) EP3000819
(00) 22.09.2021
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(11) EP3001203
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(11) EP3002983
(00) 22.09.2021
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(11) EP3005362
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3009870
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3010723
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3012406
(00) 22.09.2021

(00) EPV Ceased Effect

(11) EP3015692
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3021190
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3022691
(00) 22.09.2021
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(11) EP3026049
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3027984
(00) 22.09.2021
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(11) EP3028375
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(00) EPV Ceased Effect

(11) EP3030886
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3032039
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3033145
(00) 22.09.2021
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(11) EP3033894
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(11) EP3039263
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(11) EP3039619
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3039897
(00) 22.09.2021
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(11) EP3040837
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3043356
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3043380
(00) 22.09.2021
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(11) EP3045672
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3046140
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3047763
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3047779
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3048300
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3052001
(00) 22.09.2021

(00) EPV Ceased Effect

(11) EP3052184
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3056524
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3057610
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3060879
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3061829
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3062937
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3063787
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3064992
(00) 22.09.2021
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(11) EP3065741
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3067719
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3068036
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3069109
(00) 22.09.2021
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(11) EP3069273
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3071531
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3072389
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3073152
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3074782
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3075018
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3076256
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3077321
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3078460
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3078667
(00) 25.01.2022

(00) Patent Expired

(11) EP3079149
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3080334
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3081481
(00) 22.09.2021
(00) EPV Ceased Effect

(11) EP3081949
(00) 22.09.2021
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VRB

Verbeteringen op eerdere publicaties.
Contains data concerning corrections.

CO

Ingeschreven overdrachten.
Contains data concerning registered assignments or change of owners.

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F23J 15/00
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(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP1958375
(00) 16.12.2021
(51) H04L 12/10
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1958375
(00) 16.12.2021
(51) H04L 12/10
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2033308
(00) 16.12.2021
(51) H03G 1/00
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1964308
(00) 16.12.2021
(51) H04L 12/10
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP1964309
(00) 16.12.2021
(51) H04L 12/10
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1961151
(00) 16.12.2021
(51) H04L 12/10
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company

(11) EP1961151
(00) 16.12.2021
(51) H04L 12/10
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1964309
(00) 16.12.2021
(51) H04L 12/10
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP1876715
(00) 16.12.2021
(51) H03M 1/12
(00) Assignment
(71) Dublix Technology ApS
(73) Dublix Technology ApS
(11) EP1865257
(00) 15.12.2021
(51) B01D 53/68
F23J 15/00
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP1885051
(00) 16.12.2021
(51) H02M 3/335
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1931029
(00) 16.12.2021
(51) H03K 4/501
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP1931029
(00) 16.12.2021
(51) H03K 4/501
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP1928079
(00) 16.12.2021
(51) H02M 3/335
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1928079
(00) 16.12.2021
(51) H02M 3/335
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company

(11) EP2047589
(00) 16.12.2021
(51) G01R 19/02
H02M 7/02
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2047589
(00) 16.12.2021
(51) G01R 19/02
H02M 7/02
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1885051
(00) 16.12.2021
(51) H02M 3/335
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP1903683
(00) 16.12.2021
(51) H03M 1/12
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1903683
(00) 16.12.2021
(51) H03M 1/12
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2016801
(00) 16.12.2021
(51) H05B 33/00
H05B 33/08
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1876715
(00) 16.12.2021
(51) H03M 1/12
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2016801
(00) 16.12.2021
(51) H05B 33/00
H05B 33/08
(00) Change of Legal Entity
(71) Stellar Materials, LLC
(73) Stellar Materials, LLC
(11) EP2001815
(00) 21.12.2021
(51) C04B 28/34
(00) Assignment
(71) Cryoshelter GmbH

(73) Cryoshelter GmbH
(11) EP2069680
(00) 17.12.2021
(51) F17C 3/08
(00) Assignment

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP1956716
(00) 16.12.2021
(51) H03M 1/10
H03M 1/68
H03M 1/76
H03M 1/78
H03M 1/80
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2064609
(00) 16.12.2021
(51) G05F 1/573
G06F 1/26
(00) Change of Legal Entity

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2060059
(00) 16.12.2021
(51) G05F 1/573
G06F 1/26
H03K 3/00
H04L 12/10
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2060059
(00) 16.12.2021
(51) G05F 1/573
G06F 1/26
H03K 3/00
H04L 12/10
(00) Assignment

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2064609
(00) 16.12.2021
(51) G05F 1/573
G06F 1/26
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2123122
(00) 16.12.2021
(51) G01R 19/00
H02M 3/156
H05B 33/08
(00) Change of Legal Entity

(71) NETSTAL Maschinen AG
(73) NETSTAL Maschinen AG
(11) EP2200802
(00) 17.12.2021
(51) B29C 45/50
B29C 45/82
(00) Change of owner(s) name

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2123122
(00) 16.12.2021
(51) G01R 19/00
H02M 3/156
H05B 33/08
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2122815
(00) 16.12.2021
(51) H02M 3/335
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2122815
(00) 16.12.2021
(51) H02M 3/335
(00) Assignment

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2132855
(00) 16.12.2021
(51) G01R 31/36
H02J 7/00
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2132855
(00) 16.12.2021
(51) G01R 31/36
H02J 7/00
(00) Change of Legal Entity

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1956716
(00) 16.12.2021
(51) H03M 1/10
H03M 1/68
H03M 1/76
H03M 1/78
H03M 1/80
(00) Change of Legal Entity

(71) Schmack Biogas Service GmbH
(73) Schmack Biogas Service GmbH
(11) EP2352835
(00) 15.12.2021
(51) C02F 11/04
C12N 1/20
C12P 5/02
(00) Assignment

(71) Third Military Medical University
Chongqing Zhaokanglihui Meditech Co., Ltd
Chongqing Qingyang Pharmaceutical Co., Ltd
(73) Third Military Medical University
Chongqing Zhaokanglihui Meditech Co., Ltd
Chongqing Qingyang Pharmaceutical Co., Ltd
(11) EP2322541
(00) 21.12.2021
(51) A61K 38/10
A61K 38/17
A61P 9/00
C07K 1/06
C07K 7/08
C07K 14/435
C07K 14/47
C12N 15/12
C12N 15/63
C12N 15/70
(00) Assignment

(71) APN INC.
(73) APN INC.
(11) EP2331858
(00) 20.12.2021
(51) F16K 7/16
F16K 31/126
G01N 30/20
(00) Assignment

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2304875
(00) 16.12.2021
(51) H03M 1/10
H03M 1/36
H03M 1/78
(00) Assignment

(71) DEEM Consulting B.V.
(73) DEEM Consulting B.V.
(11) EP2210110
(00) 17.12.2021
(51) G01N 33/68
H01J 49/04
(00) Assignment

(71) LINEARBEAM S.R.L.
(73) LINEARBEAM S.R.L.
(11) EP2279833
(00) 20.12.2021
(51) B25J 9/00
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2304875
(00) 16.12.2021
(51) H03M 1/10
H03M 1/36
H03M 1/78
(00) Change of Legal Entity

(71) BioNTech SE
(73) BioNTech SE
(11) EP2200646
(00) 16.12.2021
(51) A61K 39/36

(00) Merge
(71) KraussMaffei HighPerformance AG
(73) NETSTAL Maschinen AG
(11) EP2200802
(00) 17.12.2021
(51) B29C 45/50
B29C 45/82
(00) Change of owner(s) name

(71) Schmack Biogas Service GmbH
(73) Schmack Biogas Service GmbH
(11) EP2242848
(00) 15.12.2021
(51) C02F 11/04
C12P 5/02
C12R 1/145
(00) Assignment

(71) BioNTech SE
TRON - Translationale Onkologie an der Universitätsmedizin der Johannes Gutenberg- Universität Mainz gemeinnützige GmbH
Uniwersytet Warszawski
(73) TRON - Translationale Onkologie an der Universitätsmedizin der Johannes Gutenberg- Universität Mainz gemeinnützige GmbH
Uniwersytet Warszawski
BioNTech SE
(11) EP2461833
(00) 20.12.2021
(51) A61K 48/00
C12N 5/16
(00) Merge

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2107745
(00) 16.12.2021
(51) H03M 1/08
H03M 7/04
H03M 7/14
H04L 25/49
(00) Assignment

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2355357
(00) 16.12.2021
(51) H03F 3/21
H03F 3/72
H03M 1/06
H03M 1/12
H03M 1/16
H03M 1/36
H03M 1/46
(00) Assignment

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2323246
(00) 16.12.2021
(51) H02M 3/156
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2323246
(00) 16.12.2021
(51) H02M 3/156
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2388922
(00) 16.12.2021
(51) H03M 1/06
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2107745
(00) 16.12.2021
(51) H03M 1/08
H03M 7/04
H03M 7/14
H04L 25/49
(00) Change of Legal Entity

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2144133
(00) 16.12.2021
(51) G05F 1/67
H02J 7/35
(00) Change of Legal Entity

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2378650
(00) 16.12.2021
(51) H02M 3/158
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2378650
(00) 16.12.2021
(51) H02M 3/158
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2348623
(00) 16.12.2021
(51) H02M 3/156
H02M 3/335
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2348623
(00) 16.12.2021
(51) H02M 3/156
H02M 3/335
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2388922
(00) 16.12.2021
(51) H03M 1/06
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2450801
(00) 16.12.2021
(51) G06F 13/40
(00) Assignment

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2144133
(00) 16.12.2021
(51) G05F 1/67
H02J 7/35
(00) Assignment

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2190115
(00) 16.12.2021
(51) H03G 1/00
(00) Assignment

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2426819
(00) 16.12.2021
(51) H03K 4/501
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2426819
(00) 16.12.2021
(51) H03K 4/501
(00) Change of Legal Entity

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2418918
(00) 16.12.2021
(51) H05B 33/08
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2418918
(00) 16.12.2021
(51) H05B 33/08
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2450801
(00) 16.12.2021
(51) G06F 13/40
(00) Change of Legal Entity

(71) Linear Technology LLC

(73) Analog Devices International Unlimited Company
(11) EP2190115
(00) 16.12.2021
(51) H03G 1/00
(00) Change of Legal Entity

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2246985
(00) 16.12.2021
(51) H03M 1/06
H03M 1/80
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2583858
(00) 16.12.2021
(51) B60L 11/18
H01M 10/42
H02J 7/00
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2583858
(00) 16.12.2021
(51) B60L 11/18
H01M 10/42
H02J 7/00
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2461478
(00) 16.12.2021
(51) H03F 1/32
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2461478
(00) 16.12.2021
(51) H03F 1/32
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2518957
(00) 16.12.2021
(51) H04L 25/02
(00) Assignment

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2246985
(00) 16.12.2021
(51) H03M 1/06
H03M 1/80
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2252131
(00) 16.12.2021
(51) H03K 7/08
H05B 33/08
(00) Change of Legal Entity

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2546966
(00) 16.12.2021
(51) H02M 1/14
H02M 3/158
H02M 1/00
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2252131
(00) 16.12.2021
(51) H03K 7/08
H05B 33/08
(00) Assignment

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2546966
(00) 16.12.2021
(51) H02M 1/14
H02M 3/158
H02M 1/00
(00) Assignment

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2271181
(00) 16.12.2021
(51) H05B 33/08
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2592425
(00) 16.12.2021
(51) G01F 1/698
G01P 5/10
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2592425
(00) 16.12.2021
(51) G01F 1/698
G01P 5/10
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2271181
(00) 16.12.2021
(51) H05B 33/08
(00) Change of Legal Entity

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2299578
(00) 16.12.2021
(51) H02M 3/156
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2299578
(00) 16.12.2021
(51) H02M 3/156
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2299570
(00) 16.12.2021
(51) H02M 3/00
H02M 1/32
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2605412
(00) 16.12.2021
(51) H04B 1/10
(00) Assignment

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2299570
(00) 16.12.2021
(51) H02M 3/00
H02M 1/32
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2605412
(00) 16.12.2021
(51) H04B 1/10
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2207258
(00) 16.12.2021
(51) H02M 1/10
H02M 3/338
(00) Assignment

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2728431
(00) 16.12.2021
(51) G05F 3/30
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company

(11) EP2207258
(00) 16.12.2021
(51) H02M 1/10
H02M 3/338
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2728431
(00) 16.12.2021
(51) G05F 3/30
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2284640
(00) 16.12.2021
(51) G05F 3/30
(00) Assignment
(71) Fortimedix Assets II B.V.
(73) Fortimedix Assets II B.V.
(11) EP2762058
(00) 15.12.2021
(51) A61B 1/00
A61B 1/005
A61M 25/00
A61M 25/01
(00) Change of owner(s) name
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2284640
(00) 16.12.2021
(51) G05F 3/30
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2239834
(00) 16.12.2021
(51) H02M 3/156
H05B 33/08
(00) Change of Legal Entity
(71) Fortimedix Assets II B.V.
(73) Fortimedix Assets II B.V.
(11) EP2273911
(00) 15.12.2021
(51) A61B 1/00
A61B 1/005
A61B 17/00
A61M 25/00
A61M 25/01
(00) Change of owner(s) name
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP1635445
(00) 16.12.2021
(51) H02M 3/158
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1635445
(00) 16.12.2021
(51) H02M 3/158
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2239834
(00) 16.12.2021
(51) H02M 3/156
H05B 33/08
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2376994
(00) 16.12.2021
(51) G06F 1/26
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2680419
(00) 16.12.2021
(51) H02M 3/156
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2517034
(00) 16.12.2021
(51) G01R 1/20
G01R 19/00
H02M 3/156
H02M 1/00
G01R 31/40
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP1689069
(00) 16.12.2021
(51) H02M 3/156
H02M 3/158
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1689069
(00) 16.12.2021
(51) H02M 3/156
H02M 3/158
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2517034
(00) 16.12.2021
(51) G01R 1/20
G01R 19/00
H02M 3/156
H02M 1/00
G01R 31/40
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2355357
(00) 16.12.2021
(51) H03F 3/21
H03F 3/72
H03M 1/06
H03M 1/12
H03M 1/16
H03M 1/36
H03M 1/46
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2518957
(00) 16.12.2021
(51) H04L 25/02
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2376994
(00) 16.12.2021
(51) G06F 1/26
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2575248
(00) 16.12.2021
(51) H02M 1/10
H02M 3/338
(00) Change of Legal Entity
(71) Fortimedix Assets II B.V.
(73) Fortimedix Assets II B.V.
(11) 2017570
(00) 15.12.2021
(51) A61B 1/005
A61B 1/00
A61M 25/00
A61M 25/01
(00) Change of owner(s) name
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2626862
(00) 16.12.2021
(51) G11C 5/14
G11C 11/417
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2626862
(00) 16.12.2021
(51) G11C 5/14
G11C 11/417
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2575248
(00) 16.12.2021

(51) H02M 1/10
H02M 3/338
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1869824
(00) 16.12.2021
(51) H04L 12/10
H04L 12/931
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2337208
(00) 16.12.2021
(51) H02M 3/156
H02M 3/158
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2337208
(00) 16.12.2021
(51) H02M 3/156
H02M 3/158
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2680419
(00) 16.12.2021
(51) H02M 3/156
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP1689070
(00) 16.12.2021
(51) H02M 3/158
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1689070
(00) 16.12.2021
(51) H02M 3/158
(00) Change of Legal Entity
(71) NEOVAC GmbH
(73) NEOVAC GmbH
(11) EP2208218
(00) 16.12.2021
(51) H01J 37/32
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2235751
(00) 16.12.2021
(51) H01L 23/00
H01L 23/495
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2235751
(00) 16.12.2021
(51) H01L 23/00
H01L 23/495
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP1869824
(00) 16.12.2021
(51) H04L 12/10
H04L 12/931
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2752965
(00) 16.12.2021
(51) G01R 29/24
H02J 7/00
H02M 1/00
H02M 3/156
H02M 3/158
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1859566
(00) 16.12.2021
(51) H04L 12/10
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP1859566
(00) 16.12.2021
(51) H04L 12/10
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2752965
(00) 16.12.2021
(51) G01R 29/24
H02J 7/00
H02M 1/00
H02M 3/156
H02M 3/158
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2605402
(00) 16.12.2021
(51) H03F 1/32
H03F 3/19
H03F 3/45
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2605402
(00) 16.12.2021
(51) H03F 1/32
H03F 3/19
H03F 3/45
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2816759
(00) 16.12.2021
(51) G06F 1/26
H04L 12/10
H04L 12/40
H04L 25/02
H04L 12/931
(00) Assignment
(71) InterDigital Technology Corporation
(73) InterDigital Technology Corporation
(11) EP2693691
(00) 17.12.2021
(51) G06F 9/44
H04L 12/24
H04L 29/06
H04L 29/08
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1932236
(00) 16.12.2021
(51) H02M 3/156
H03K 4/50
H03K 7/08
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2816759
(00) 16.12.2021
(51) G06F 1/26
H04L 12/10
H04L 12/40
H04L 25/02
H04L 12/931
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2590329
(00) 16.12.2021
(51) H03M 1/06
H03M 1/74
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2590329
(00) 16.12.2021
(51) H03M 1/06
H03M 1/74
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company

(73) Analog Devices International Unlimited Company
(11) EP1813056
(00) 16.12.2021
(51) G06F 1/26
H04L 12/10
(00) Assignment

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP1842324
(00) 16.12.2021
(51) H04L 12/10
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1842324
(00) 16.12.2021
(51) H04L 12/10
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP1842325
(00) 16.12.2021
(51) H04L 12/10
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1842325
(00) 16.12.2021
(51) H04L 12/10
(00) Change of Legal Entity

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2299573
(00) 16.12.2021
(51) H02M 3/335
H02M 1/40
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2299573
(00) 16.12.2021
(51) H02M 3/335
H02M 1/40
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1813056
(00) 16.12.2021
(51) G06F 1/26
H04L 12/10
(00) Change of Legal Entity

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2323256
(00) 16.12.2021
(51) H03K 5/08
H03K 5/156
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2323256
(00) 16.12.2021
(51) H03K 5/08
H03K 5/156
(00) Assignment

(71) Fortimedix Assets II B.V.
(73) Fortimedix Assets II B.V.
(11) 2016900
(00) 15.12.2021
(51) A61B 1/00
A61B 1/005
A61B 1/008
A61M 25/01
(00) Change of owner(s) name

(71) Denka Company Limited
(73) Denka Company Limited
(11) EP2597468
(00) 20.12.2021
(51) C12Q 1/44
C12Q 1/60
G01N 33/92
(00) Merge

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2518900
(00) 16.12.2021
(51) H03K 17/00
H03K 17/16
H03K 17/693
H03M 1/06
H03M 1/74
(00) Change of Legal Entity

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2688215
(00) 16.12.2021
(51) H03D 7/00
H03D 7/14
H04B 1/10
H04B 1/16
H04B 1/18
H04B 1/30
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2518900
(00) 16.12.2021
(51) H03K 17/00
H03K 17/16
H03K 17/693
H03M 1/06
H03M 1/74
(00) Assignment

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2356533
(00) 16.12.2021
(51) G05F 3/30
(00) Assignment

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2533246
(00) 16.12.2021
(51) G11C 27/02
H03K 17/14
(00) Assignment

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2343808
(00) 16.12.2021
(51) H03M 1/14
H03M 3/02
H03M 7/00
(00) Assignment

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2921832
(00) 16.12.2021
(51) G01K 7/20
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2921832
(00) 16.12.2021
(51) G01K 7/20
(00) Change of Legal Entity

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2356533
(00) 16.12.2021
(51) G05F 3/30
(00) Change of Legal Entity

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2533246
(00) 16.12.2021
(51) G11C 27/02
H03K 17/14
(00) Change of Legal Entity

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2639951
(00) 16.12.2021
(51) H02M 1/00
H02M 3/335
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company

(11) EP2445096
(00) 16.12.2021
(51) H02M 3/156
H03K 4/50
H03K 7/08
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company

(11) EP2445096
(00) 16.12.2021
(51) H02M 3/156
H03K 4/50
H03K 7/08
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company

(11) EP2282445
(00) 16.12.2021
(51) H04L 12/10
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company

(11) EP2282445
(00) 16.12.2021
(51) H04L 12/10
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company

(11) EP2587718
(00) 16.12.2021
(51) H04L 12/10
H04L 12/40
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company

(11) EP2587718
(00) 16.12.2021
(51) H04L 12/10
H04L 12/40
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company

(11) EP2639951
(00) 16.12.2021
(51) H02M 1/00
H02M 3/335
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company

(11) EP1508961
(00) 16.12.2021
(51) H02M 3/335
H02M 3/338
H05B 41/30
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company

(11) EP1897217
(00) 16.12.2021
(51) H03F 3/21
H03F 3/72
H03G 1/00
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company

(11) EP1897217
(00) 16.12.2021
(51) H03F 3/21
H03F 3/72
H03G 1/00
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company

(11) EP2904688
(00) 16.12.2021
(51) B60L 11/18
H01M 10/44
H02J 7/00
H04B 5/00
H02J 5/00
H02J 7/02
H02J 50/12
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company

(11) EP1508961
(00) 16.12.2021
(51) H02M 3/335
H02M 3/338
H05B 41/30
(00) Change of Legal Entity
(71) BAUER Maschinen GmbH
(73) BAUER Maschinen GmbH

(11) EP2947258
(00) 15.12.2021
(51) E21B 19/14
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company

(11) EP2538562
(00) 16.12.2021
(51) H03M 1/06
H03M 1/10
H03M 1/46
H03M 3/00
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company

(11) EP2538562
(00) 16.12.2021
(51) H03M 1/06
H03M 1/10
H03M 1/46
H03M 3/00
(00) Assignment

(71) DNN Beheer II B.V.
(73) DNN Beheer II B.V.
(11) EP2148965
(00) 21.12.2021
(51) E04F 15/024
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company

(11) EP2778941
(00) 16.12.2021
(51) G06F 13/42
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company

(11) EP2778941
(00) 16.12.2021
(51) G06F 13/42
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company

(11) EP2905902
(00) 16.12.2021
(51) H03C 3/09
H03L 7/081
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company

(11) EP2905902
(00) 16.12.2021
(51) H03C 3/09
H03L 7/081
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company

(11) EP2647123
(00) 16.12.2021
(51) H03F 1/30
H03F 1/32
H03F 3/19
H03F 3/195
(00) Assignment
(71) SIRAL S.R.L.
ZF MICRO MOBILITY GmbH
(73) ZF MICRO MOBILITY GmbH
SIRAL S.R.L.

(11) EP2905213
(00) 16.12.2021
(51) B62M 11/06
F16D 21/06
F16H 3/083
F16H 63/30
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company

(11) EP2299575
(00) 16.12.2021
(51) H02M 3/02
H02M 3/156

H02M 3/158
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2299575
(00) 16.12.2021
(51) H02M 3/02
H02M 3/156
H02M 3/158
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2259161
(00) 16.12.2021
(51) G05F 1/56
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2259161
(00) 16.12.2021
(51) G05F 1/56
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2647123
(00) 16.12.2021
(51) H03F 1/30
H03F 1/32
H03F 3/19
H03F 3/195
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2722987
(00) 16.12.2021
(51) H01L 27/02
H03K 17/16
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2487476
(00) 16.12.2021
(51) G01K 7/01
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2487476
(00) 16.12.2021
(51) G01K 7/01
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP1679780
(00) 16.12.2021
(51) H02M 3/156
H02M 1/32
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1679780
(00) 16.12.2021
(51) H02M 3/156
H02M 1/32
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2722987
(00) 16.12.2021
(51) H01L 27/02
H03K 17/16
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2709253
(00) 16.12.2021
(51) H02M 3/156
H02M 3/335
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2709253
(00) 16.12.2021
(51) H02M 3/156
H02M 3/335
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP1913679
(00) 16.12.2021
(51) H02M 1/08
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2539995
(00) 16.12.2021
(51) H02M 3/07
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2539995
(00) 16.12.2021
(51) H02M 3/07
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1913679
(00) 16.12.2021
(51) H02M 1/08
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2209194
(00) 16.12.2021
(51) H02M 1/12
H02M 3/158
H02M 1/44
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2326003
(00) 16.12.2021
(51) H03K 3/013
H03K 3/021
H03K 3/356
H03K 19/003
H03K 19/017
H03K 19/0175
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2393190
(00) 16.12.2021
(51) H02M 3/335
H02M 3/337
H02M 1/40
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2393190
(00) 16.12.2021
(51) H02M 3/335
H02M 3/337
H02M 1/40
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2209194
(00) 16.12.2021
(51) H02M 1/12
H02M 3/158
H02M 1/44
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2662892
(00) 16.12.2021
(51) H01L 23/492
H01L 23/495
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2662892
(00) 16.12.2021
(51) H01L 23/492
H01L 23/495
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2326003
(00) 16.12.2021
(51) H03K 3/013
H03K 3/021
H03K 3/356
H03K 19/003
H03K 19/017
H03K 19/0175
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2723146
(00) 16.12.2021
(51) H05B 33/08
(00) Change of Legal Entity

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2555122
(00) 16.12.2021
(51) G06F 13/40
G06F 13/42
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2723146
(00) 16.12.2021
(51) H05B 33/08
(00) Assignment

(71) ARXADA, LLC
(73) ARXADA, LLC
(11) EP2758347
(00) 17.12.2021
(51) C02F 1/50
(00) Change of owner(s) name

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2727285
(00) 16.12.2021
(51) G06F 1/26
H04L 12/10
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2727285
(00) 16.12.2021
(51) G06F 1/26
H04L 12/10
(00) Change of Legal Entity

(71) Denka Company Limited
(73) Denka Company Limited
(11) EP2833141
(00) 20.12.2021
(51) G01N 33/53
G01N 33/543
(00) Merge

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2555122
(00) 16.12.2021
(51) G06F 13/40
G06F 13/42
(00) Assignment

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2533247
(00) 16.12.2021
(51) G11C 27/02
H03K 17/14
(00) Assignment

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2528215
(00) 16.12.2021
(51) H02M 3/158
H02M 1/00
H02M 1/32
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2528215
(00) 16.12.2021
(51) H02M 3/158
H02M 1/00
H02M 1/32
(00) Change of Legal Entity

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2533247
(00) 16.12.2021
(51) G11C 27/02
H03K 17/14
(00) Change of Legal Entity

(71) Denka Company Limited
(73) Denka Company Limited
(11) EP2682476
(00) 20.12.2021
(51) C12Q 1/44
C12Q 1/60
G01N 33/92
(00) Merge

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2377219
(00) 16.12.2021
(51) H02J 1/10
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2377219
(00) 16.12.2021
(51) H02J 1/10
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP3143722
(00) 16.12.2021
(51) H02M 1/00
H02M 3/156
H04L 12/10
H04L 12/40
(00) Assignment

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP1932236
(00) 16.12.2021
(51) H02M 3/156
H03K 4/50
H03K 7/08
(00) Assignment

(71) Denka Company Limited
(73) Denka Company Limited
(11) EP2597158
(00) 20.12.2021
(51) C12Q 1/42
C12Q 1/44
C12Q 1/60
G01N 33/92
(00) Merge

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2688215
(00) 16.12.2021
(51) H03D 7/00
H03D 7/14
H04B 1/10
H04B 1/16
H04B 1/18
H04B 1/30
(00) Assignment

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2621069
(00) 16.12.2021
(51) H02M 3/335
H02M 1/00
H02M 1/32
(00) Assignment

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2621069
(00) 16.12.2021
(51) H02M 3/335
H02M 1/00
H02M 1/32
(00) Change of Legal Entity

(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1914870

(00) 16.12.2021
(51) H02M 3/158
H02M 1/32
(00) Change of Legal Entity
(71) Energetiq Technology, Inc.
(73) Energetiq Technology, Inc.
(11) EP2202778
(00) 17.12.2021
(51) G03F 7/20
H01J 61/02
H01J 65/04
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2184858
(00) 16.12.2021
(51) H02J 7/34
H03K 5/1252
H03K 19/003
H03M 1/46
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP1914870
(00) 16.12.2021
(51) H02M 3/158
H02M 1/32
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2184858
(00) 16.12.2021
(51) H02J 7/34
H03K 5/1252
H03K 19/003
H03M 1/46
(00) Change of Legal Entity
(71) Fortimedix Assets II B.V.
(73) Fortimedix Assets II B.V.
(11) EP2915476
(00) 15.12.2021
(51) A61B 1/00
A61B 1/005
A61B 17/00
A61M 25/00
A61M 25/01
(00) Change of owner(s) name
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP1806830
(00) 16.12.2021
(51) H02M 1/32
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2904688
(00) 16.12.2021
(51) B60L 11/18
H01M 10/44
H02J 7/00
H04B 5/00
H02J 5/00
H02J 7/02
H02J 50/12
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2520942
(00) 16.12.2021
(51) G01R 19/00
G01R 19/10
H03F 3/00
H03F 3/45
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2504947
(00) 16.12.2021
(51) H02J 1/10
H04L 12/10
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2504947
(00) 16.12.2021
(51) H02J 1/10
H04L 12/10
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2520942
(00) 16.12.2021
(51) G01R 19/00
G01R 19/10
H03F 3/00
H03F 3/45
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2299579
(00) 16.12.2021
(51) H02M 3/335
H02M 1/34
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2299579
(00) 16.12.2021
(51) H02M 3/335
H02M 1/34
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2343808
(00) 16.12.2021
(51) H03M 1/14
H03M 3/02
H03M 7/00
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2211449
(00) 16.12.2021
(51) H02H 7/12
H02M 3/155
H02M 3/156
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2211449
(00) 16.12.2021
(51) H02H 7/12
H02M 3/155
H02M 3/156
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2317634
(00) 16.12.2021
(51) H02M 3/156
(00) Assignment
(71) DEEM Consulting B.V.
(73) DEEM Consulting B.V.
(11) 2018940
(00) 17.12.2021
(51) H01J 49/16
H01J 49/34
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2317634
(00) 16.12.2021
(51) H02M 3/156
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2337206
(00) 16.12.2021
(51) H02M 3/158
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2991270
(00) 16.12.2021
(51) H04B 3/54
H04L 12/10
H04L 12/40
H04L 29/06
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company

(11) EP2991270
(00) 16.12.2021
(51) H04B 3/54
H04L 12/10
H04L 12/40
H04L 29/06
(00) Change of Legal Entity
(71) Fortimedix Assets II B.V.
(73) Fortimedix Assets II B.V.
(11) 2019175
(00) 15.12.2021
(51) A61B 17/00
(00) Change of owner(s) name
(71) DEEM Consulting B.V.
(73) DEEM Consulting B.V.
(11) 2019320
(00) 17.12.2021
(51) G01N 33/569
G01N 33/68
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2337206
(00) 16.12.2021
(51) H02M 3/158
(00) Change of Legal Entity
(71) BioNTech SE
Translationale Onkologie an der Universitätsmedizin der JGU Mainz gGmbH (TRON)
(73) Translationale Onkologie an der Universitätsmedizin der JGU Mainz gGmbH (TRON)
BioNTech SE
(11) EP2646557
(00) 21.12.2021
(51) C12N 5/16
C12N 15/67
(00) Merge
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2392931
(00) 16.12.2021
(51) G01R 1/02
G01R 1/20
G01R 19/00
G01R 27/02
G01R 35/00
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2392931
(00) 16.12.2021
(51) G01R 1/02
G01R 1/20
G01R 19/00
G01R 27/02
G01R 35/00
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2560021
(00) 16.12.2021
(51) G01H 1/00
G01H 9/00
G01S 13/50
G01S 13/88
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2560021
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(51) G01H 1/00
G01H 9/00
G01S 13/50
G01S 13/88
(00) Change of Legal Entity
(71) FORTIUSALTIUS SARL
(73) FORTIUSALTIUS SARL
(11) EP2718447
(00) 16.12.2021
(51) C02F 11/02
C12M 1/107
C12M 1/36
C12P 1/00
C12P 7/06
C12P 7/16
C12P 7/20
C12P 7/40
C12P 7/52
C12P 7/54
C12P 7/56
C12P 7/64
C12P 39/00
(00) Assignment
(71) Fortimedix Assets II B.V.
(73) Fortimedix Assets II B.V.
(11) EP2262408
(00) 15.12.2021
(51) A61B 1/005
A61B 17/00
A61M 25/00
A61M 25/01
(00) Change of owner(s) name
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2713511
(00) 16.12.2021
(51) G05F 1/575
H02M 1/08
H03M 1/08
H03M 1/44
H03M 1/46
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1994799
(00) 16.12.2021
(51) H05B 33/08
(00) Change of Legal Entity
(71) Denka Company Limited
(73) Denka Company Limited
(11) EP2639310
(00) 20.12.2021
(51) C12Q 1/28
C12Q 1/30
C12Q 1/44
G01N 33/92
(00) Merge
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2159841
(00) 16.12.2021
(51) H01F 19/08
H01F 27/28
H01F 38/14
H01L 23/495
H01L 23/64
H01L 25/065
H01L 25/07
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2159841
(00) 16.12.2021
(51) H01F 19/08
H01F 27/28
H01F 38/14
H01L 23/495
H01L 23/64
H01L 25/065
H01L 25/07
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2728793
(00) 16.12.2021
(51) G06F 1/26
H02H 11/00
H04L 12/10
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2111705
(00) 16.12.2021
(51) H04L 12/10
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(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP1696568
(00) 16.12.2021
(51) H03K 19/173
H04L 25/49
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1696568
(00) 16.12.2021
(51) H03K 19/173
H04L 25/49
(00) Change of Legal Entity

(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP1608070
(00) 16.12.2021
(51) H03K 19/173
H04L 25/49
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2779444
(00) 16.12.2021
(51) H04N 5/363
H03F 3/45
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1608070
(00) 16.12.2021
(51) H03K 19/173
H04L 25/49
(00) Change of Legal Entity
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H03F 3/45
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(11) EP2111705
(00) 16.12.2021
(51) H04L 12/10
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2577726
(00) 16.12.2021
(51) H01L 23/492
H01L 23/495
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2362417
(00) 16.12.2021
(51) H01F 19/08
H01L 23/495
H01L 23/64
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2362417
(00) 16.12.2021
(51) H01F 19/08
H01L 23/495
H01L 23/64
(00) Assignment
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(11) EP2577726
(00) 16.12.2021
(51) H01L 23/492
H01L 23/495
(00) Assignment
(71) Denka Company Limited
(73) Denka Company Limited
(11) EP2808395
(00) 20.12.2021
(51) C12Q 1/60
G01N 33/48
G01N 33/92
(00) Merge
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP3143722
(00) 16.12.2021
(51) H02M 1/00
H02M 3/156
H04L 12/10
H04L 12/40
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP1806830
(00) 16.12.2021
(51) H02M 1/32
(00) Change of Legal Entity
(71) Avsalt AB
(73) Avsalt AB
(11) 2020640
(00) 22.12.2021
(51) C02F 1/46
C02F 1/48
(00) Assignment
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2770334
(00) 16.12.2021
(51) G01R 19/02
G01R 21/10
G06G 7/20
H02M 7/217
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2770334
(00) 16.12.2021
(51) G01R 19/02
G01R 21/10
G06G 7/20
H02M 7/217
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2713511
(00) 16.12.2021
(51) G05F 1/575
H02M 1/08
H03M 1/08
H03M 1/44
H03M 1/46
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP1994799
(00) 16.12.2021
(51) H05B 33/08
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(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP3176978
(00) 16.12.2021
(51) G06F 1/26
H04L 12/10
H04L 12/24
H04L 12/40
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2866347
(00) 16.12.2021
(51) H02M 3/07
H03K 3/356
H03K 17/06
H03M 1/12
H03M 1/24
(00) Change of Legal Entity
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(73) Analog Devices International Unlimited Company
(11) EP2866347
(00) 16.12.2021
(51) H02M 3/07
H03K 3/356
H03K 17/06
H03M 1/12
H03M 1/24
(00) Assignment
(71) The Curators of the University of Missouri
Jin-Hoi Kim
(73) Jin-Hoi Kim
The Curators of the University of Missouri
(11) EP2993234
(00) 20.12.2021
(51) A01K 67/027
C12N 5/10
C12N 15/53
C12N 15/63
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP3176978
(00) 16.12.2021
(51) G06F 1/26
H04L 12/10

H04L 12/24
H04L 12/40
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(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2728793
(00) 16.12.2021
(51) G06F 1/26
H02H 11/00
H04L 12/10
(00) Change of Legal Entity
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2897270
(00) 16.12.2021
(51) H02M 3/07
H02M 1/32
H02M 1/36
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2897270
(00) 16.12.2021
(51) H02M 3/07
H02M 1/32
H02M 1/36
(00) Assignment
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP3094044
(00) 16.12.2021
(51) H04L 12/10
H04L 12/12
H04L 12/403
(00) Change of Legal Entity
(71) Denka Company Limited
(73) Denka Company Limited
(11) EP3045913
(00) 20.12.2021
(51) G01N 33/543
G01N 33/569
(00) Merge
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP3094044
(00) 16.12.2021
(51) H04L 12/10
H04L 12/12
H04L 12/403
(00) Assignment
(71) InterDigital Technology Corporation
(73) InterDigital Technology Corporation
(11) EP2816856
(00) 17.12.2021
(51) H04W 36/00
H04W 72/04
(00) Assignment
(71) DEEM Consulting B.V.
(73) DEEM Consulting B.V.
(11) 2022038
(00) 17.12.2021
(51) G01N 33/68
(00) Assignment
(71) Denka Company Limited
(73) Denka Company Limited
(11) EP3045914
(00) 20.12.2021
(51) C07K 16/10
G01N 33/558
G01N 33/569
(00) Merge
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP2717447
(00) 16.12.2021
(51) H02M 3/156
(00) Assignment
(71) Denka Company Limited
(73) Denka Company Limited
(11) EP3026120
(00) 20.12.2021
(51) C12Q 1/26
C12Q 1/34
C12Q 1/60
G01N 33/48
G01N 33/50
G01N 33/92
(00) Merge
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP2717447
(00) 16.12.2021
(51) H02M 3/156
(00) Change of Legal Entity
(71) SIRAL S.R.L.
ZF MICRO MOBILITY GmbH
(73) SIRAL S.R.L.
ZF MICRO MOBILITY GmbH
(11) EP2881315
(00) 16.12.2021
(51) B62M 11/06
G01L 3/10
B62M 6/50
(00) Assignment
(71) DRNC Holdings, Inc.
(73) DRNC Holdings, Inc.
(11) EP2996256
(00) 17.12.2021
(51) G06F 13/38
G06K 7/10
G06K 19/07
H04B 5/00
H04B 5/06
H04W 8/00
H04W 12/06
H04W 12/08
H04W 48/16
G06Q 20/32
G06F 21/35
(00) Assignment
(71) Fortimedix Assets II B.V.
(73) Fortimedix Assets II B.V.
(11) EP3219249
(00) 15.12.2021
(51) A61B 1/00
A61B 1/005
A61B 17/00
A61M 25/00
A61M 25/01
(00) Change of owner(s) name
(71) Linear Technology LLC
(73) Analog Devices International Unlimited Company
(11) EP3313021
(00) 16.12.2021
(51) H04L 12/10
(00) Change of Legal Entity
(71) Analog Devices International Unlimited Company
(73) Analog Devices International Unlimited Company
(11) EP3313021
(00) 16.12.2021
(51) H04L 12/10
(00) Assignment
(71) DEEM Consulting B.V.
(73) DEEM Consulting B.V.
(11) EP2329513
(00) 17.12.2021
(51) G01N 1/38
G01N 35/10
H01J 49/04
H01J 49/16
(00) Assignment
(71) Fortimedix Assets II B.V.
(73) Fortimedix Assets II B.V.
(11) EP3226743
(00) 15.12.2021
(51) A61B 1/00
A61B 1/005
A61B 17/00
A61B 17/29
A61B 17/32
A61B 17/34
A61M 25/01
A61B 90/00
(00) Change of owner(s) name
(71) Denka Company Limited
(73) Denka Company Limited
(11) EP3306319
(00) 20.12.2021
(51) C07K 16/12
C12N 15/02
C12P 21/08
G01N 33/543
G01N 33/569
G01N 33/577
(00) Merge
(71) Fortimedix Assets II B.V.
(73) Fortimedix Assets II B.V.
(11) EP3076885
(00) 15.12.2021
(51) A61B 17/29
A61B 17/34
A61B 90/50
(00) Change of owner(s) name
(71) INDUSTRIAL TOMOGRAPHY SYSTEMS LTD
(73) Stream Sensing Limited
(11) EP3371608
(00) 15.12.2021

(51) G01F 1/58
G01N 11/02
G01N 27/06
G01N 27/22
G01P 5/08
(00) Change of Legal Entity
(71) Michael Edward Breede
(73) Michael Edward Breede
(11) EP3185937
(00) 21.12.2021
(51) A61M 11/00
A61M 15/00
A61M 16/14
(00) Assignment
(71) Fortimedix Assets II B.V.
(73) Fortimedix Assets II B.V.
(11) EP3518729
(00) 15.12.2021
(51) A61B 1/00
A61B 1/005
A61M 25/00
A61M 25/01
(00) Change of owner(s) name
(71) DEEM Consulting B.V.
(73) DEEM Consulting B.V.
(11) EP2836958
(00) 17.12.2021
(51) G06K 9/00
G06K 9/62
(00) Assignment
(71) Stream Sensing Limited
(73) Stream Sensing Limited
(11) EP3371608
(00) 15.12.2021
(51) G01F 1/58
G01N 11/02
G01N 27/06
G01N 27/22
G01P 5/08
(00) Assignment
(71) ENERGYSQUARE
(73) ENERGYSQUARE
(11) EP3425763
(00) 21.12.2021
(51) G01R 19/00
H01R 13/00
H01R 25/00
H02H 11/00
H02J 7/00
H05K 1/11
(00) Assignment
(71) ARXADA, LLC
(73) ARXADA, LLC
(11) EP2888340
(00) 17.12.2021
(51) C09K 8/035
C09K 8/52
C10G 29/20
C10G 29/24
(00) Change of owner(s) name
(71) Xueshan Technologies Inc.
(73) Xueshan Technologies Inc.
(11) EP3167676
(00) 17.12.2021
(51) H04W 72/02
(00) Assignment
(71) Alcon Inc.
(73) Alcon Inc.
(11) EP3536289
(00) 20.12.2021
(51) A61F 9/008
A61F 9/009
(00) Assignment
(71) Medline Industries, LP
(73) Medline Industries, LP
(11) EP3076912
(00) 10.12.2021
(51) A61B 5/00
A61B 10/00
A61F 13/15
A61F 13/42
A61F 13/45
A61F 13/49
A61F 13/51
A61F 13/514
A61F 13/84
(00) Change of Legal Entity
(71) Great Star Tools USA, Inc.
(73) Great Star Tools USA, Inc.
(11) EP3057740
(00) 21.12.2021
(51) B25B 13/46
B25B 13/04
F16F 1/26
(00) Assignment
(71) Corteva Agriscience LLC
(73) Corteva Agriscience LLC
(11) EP2775843
(00) 20.12.2021
(51) A01N 43/80
(00) Assignment
(71) Medline Industries, LP
(73) Medline Industries, LP
(11) EP3157486
(00) 10.12.2021
(51) A61F 13/49
A61F 13/496
A61F 13/534
(00) Change of Legal Entity
(71) Smiths Detection Germany GmbH
(73) Smiths Detection Germany GmbH
(11) EP2677936
(00) 21.12.2021
(51) A61B 6/03
G01N 23/04
G06T 11/00
A61B 6/00
G01N 23/046
G06T 17/30
(00) Change of owner(s) name
(71) ABU DHABI POLYMERS CO. LTD
(BOROUGE) L.L.C.
Borealis AG
(73) ABU DHABI POLYMERS CO. LTD
(BOROUGE) L.L.C.
Borealis AG
(11) EP3383755
(00) 17.12.2021
(51) B65D 41/00
C08F 2/00
C08L 23/08
(00) Change of owner(s) name
(71) Medline Industries, LP
(73) Medline Industries, LP
(11) EP3157485
(00) 10.12.2021
(51) A61F 13/49
A61F 13/496
A61F 13/534
(00) Change of Legal Entity
(71) Arxada AG
(73) Arxada AG
(11) EP3645484
(00) 07.12.2021
(51) C07B 37/04
C07D 231/12
C07D 333/12
C07D 233/64
C07D 241/10
C07D 207/33
C07D 213/26
C07C 43/17
C07C 43/225
C07C 41/30
C07C 45/68
(00) Change of owner(s) name

TVH

Topografieën van halfgeleiderproducten.
Contains data concerning Semiconductors.